IDERA SQL Inventory Manager

Version 2.3

Table of Contents

1. Release notes . . . 5
1.1 New features and fixed issues . . . 6
1.2 Previous features and fixed issues . . . 9
1.3 Known issues . . . 11
2. Welcome to SQL Inventory Manager . . . 15
2.1 What is IDERA SQL Inventory Manager? . . . 16
2.2 How does SQL Inventory Manager help me? . . . 17
2.3 Searching SQL Inventory Manager . . . 18
2.4 Using SQL Inventory Manager Help . . . 19
2.5 Definition of terms . . . 20
2.6 About IDERA . . . 24
2.6.1 IDERA products . . . 25
2.6.2 Contact IDERA . . . 26
2.6.3 Legal notice . . . 27
3. Getting started . . . 31
3.1 Upgrade to this release . . . 32
3.2 Installation and deployment . . . 35
3.2.1 Product components and architecture . . . 36
3.2.1.1 IDERA Dashboard components and architecture . . . 39
3.2.2 Product requirements . . . 41
3.2.2.1 Hardware requirements . . . 42
3.2.2.2 Software requirements . . . 43
3.2.2.3 Required accounts and permissions . . . 45
3.2.3 Installation instructions . . . 46
3.2.3.1 Installing SQL Inventory Manager . . . 47
3.2.3.2 Installing the IDERA Dashboard . . . 55
3.2.3.3 Installing using a remote Dashboard . . . 62
3.2.4 Log in to the IDERA Dashboard . . . 70
3.3 What login and password should you use to log in to SQL Inventory Manager? . . . 71
3.4 What options do you have when you first install SQL Inventory Manager? . . . 72
3.5 Administering SQL Inventory Manager . . . 78
3.5.1 How to manage users . . . 79
3.5.2 How to add SQL Server instances . . . 81
3.5.3 Import SQL Servers . . . 91
3.5.4 How to configure alert emails . . . 92
3.5.4.1 How to configure email settings for alert notifications . . . 93
3.5.4.2 How to subscribe to alert emails . . . 95
3.5.4.3 Managing users and their subscriptions . . . 96
3.5.5 How to manage SQL Server licensing . . . 98
3.5.5.1 Using the Core Factor Table . . . 99
3.5.5.2 FUTURE - How to manage the Core Factor Override Table . . . 101
3.5.6 How to manage health checks . . . 103
3.5.7 How to manage licenses . . . 106
3.5.8 How to manage tags . . . 108
3.5.9 How to manage instance discovery . . . 111

3.5.9.1 How to manage Discovery Center options . . . 112
3.5.9.2 How to manage auto registration options . . . 115
3.5.9.3 How to manage discovery of new database instances . . . 117
3.5.9.4 How to manage discovery credentials . . . 118
3.5.9.5 Viewing discovery status . . . 120
3.5.10 How to manage custom inventory fields . . . 121
3.6 Add SQL Server instances . . . 124
3.7 How to import SQL Server instances . . . 133
3.8 Discovering new instances . . . 134
3.9 Configuring email settings for alert notifications . . . 137
3.10 Subscribing to Alerts . . . 140
3.11 Managing tags . . . 142
3.11.1 Manage tags for a single instance . . . 146
3.11.2 Bulk edit tags for several instances . . . 148
3.12 Managing users in SQL Inventory Manager . . . 150
3.12.1 Understanding user roles . . . 152
3.12.2 User role permissions . . . 154
3.13 How to manage the Auto Registration Options . . . 157
3.14 Managing Licenses . . . 159
4. Navigate the IDERA Dashboard web console . . . 161
4.1 Using the SQL Inventory Manager widgets in the IDERA Dashboard . . . 163
4.2 Managing users in the IDERA Dashboard . . . 166
4.3 Managing instances in the IDERA Dashboard . . . 170
4.4 Managing products in the IDERA Dashboard . . . 171
4.5 Managing tags in the IDERA Dashboard . . . 175
4.6 Configure navigation order in the IDERA Dashboard . . . 177
4.7 Configure IDERA Dashboard DBA views . . . 178
4.8 Sending notifications in the IDERA Dashboard . . . 180
5. Viewing information on the SQL Inventory Manager Overview . . . 181
6. Exploring your instances . . . 186
7. Viewing BI Services . . . 193
8. Viewing all instances . . . 195
8.1 Managed instances . . . 196
8.2 SQL Server Licensing view . . . 201
8.3 Decommissioned instances . . . 207
8.4 Discovered instances . . . 210
8.5 Ignored instances . . . 214
9. Viewing instance details . . . 216
9.1 Information available on Instance Details . . . 217
9.2 Viewing Health Check Recommendations for a specific instance . . . 222
9.3 Edit instance properties . . . 224
9.4 View Configuration Settings . . . 227
9.5 View Computer Details . . . 229
9.6 Manage instance applications . . . 231
9.7 Viewing Database Details . . . 232
9.8 Disable database monitoring . . . 234
9.9 Managing tags for an instance . . . 235
10. Managing instances . . . 237

10.1 Disabling instances . . . 238
10.2 Enabling SQL Server instances . . . 239
10.3 Removing instances . . . 240
10.4 Change credentials . . . 241
10.5 How to edit instance properties . . . 244
10.6 How to edit MS SQL Server license information . . . 247
10.7 How to discover new instances . . . 250
10.8 How to add SQL Server instances for monitoring . . . 252
10.9 Reviewing SQL Server patches . . . 263
11. Health Recommendations and Alerts . . . 267
11.1 How to view Health Recommendations . . . 268
11.2 How to configure email settings . . . 273
11.3 How to subscribe to Alerts . . . 276
11.4 What Health Checks are available with SQL Inventory Manager? . . . 278
11.4.1 Database at risk (Data) . . . 282
11.4.2 Database at risk (Logs) . . . 284
11.4.3 Database backup is not current . . . 286
11.4.4 Database consistency has never been checked . . . 288
11.4.5 Database consistency has not been checked recently . . . 289
11.4.6 Database does not have a backup . . . 290
11.4.7 Database has autoshrink enabled . . . 291
11.4.8 Database is not in a usable state . . . 292
11.4.9 Limited permissions . . . 293
11.4.10 Optimize for adhoc workloads disabled . . . 294
11.4.11 SQL Server instance is down . . . 295
11.4.12 SQL Server is slow . . . 297
11.4.13 Tempdb inconsistent file sizes . . . 299
11.4.14 Unable to monitor SQL Server instance . . . 300
11.4.15 Unable to monitor with WMI . . . 301
11.4.16 Volume at risk . . . 304
11.4.17 xp_cmdshell enabled . . . 306
12. Exporting reports . . . 307
13. About data schedule and retention schedules . . . 312
14. Troubleshooting guide . . . 314
14.1 How do you gather an install log file? . . . 315
14.2 How to enable/disable security . . . 316
14.3 SQL Inventory Manager and lsass.exe process . . . 317
14.4 Troubleshooting WMI issues . . . 318
14.5 Increase memory available to SQL Inventory Manager . . . 319
15. WMI may not discover all SQL Server Instances . . . 320
16. Auto-refresh settings . . . 322

Release notes

IDERA SQL Inventory Manager provides fundamental information on your SQL Servers to help you keep track of and manage your database environment without having to be an expert in Microsoft SQL Server. It gives a broad enterprise-wide view of all your SQL Servers through automated discovery as well as simple, actionable information about the state of your environment. View core information such as how many databases exist, whether they are being backed up, get access to options like availability monitoring, and notification emails so you can take action as needed.

IDERA strives to ensure our products provide quality solutions for your SQL Server needs. If you need further assistance with any issue, please contact Technical Support.

IDERA SQL Inventory Manager lets you discover and visualize your SQL Server environment. Learn more > >

IDERA Website	Products	Purchase	Support	Community	About Us	Resources	Legal

New features and fixed issues

Upgrading from a previous version

Because of the addition of roles, all user accounts in a previous version of the product are added to the IDERA Dashboard but are not assigned a role and cannot access IDERA SQL Inventory Manager until the administrator changes the account permissions. Note that the administrator is the account specified during the IDERA Dashboard installation.

To change user account permissions, go to **IDERA Dashboard > Administration > Manage Users**. Edit a user account. Select the IDERA SQL Inventory Manager product, and then assign a role of **Product Administrator**, **Product User**, or **Product Guest**. Click **Save**, and then repeat these steps for each user account.

Now grant the user accounts access to the instances in your environment. Go to **SQL Inventory Manager > Administration > Manage Users**. Click the link for the name of the user account. In the **Access to SQL Server Instances** section of the Edit Users window, select whether you want to grant the user account access to all instances or a selection of instances. If you want to grant access to only selected instances, choose those instances using wither the tag or instance name. Click **Save**.

For more information about user accounts and roles, see Managing users in the IDERA Dashboard.

2.3 New features

Includes new patch list view

The new IDERA SQL Inventory Manager Patches view helps you manage SQL Server patches and keep your environment properly patched. The Patches view displays a list of your managed SQL Server instances including whether they are running a supported version of SQL Server. In addition, you can get information about the patches running on your SQL Server and whether additional hotfixes are available for your SQL Server level. For more information about the patches list view, see Reviewing SQL Server patches.

Supports the SQL Server AlwaysOn Availability Groups feature

IDERA SQL Inventory Manager 2.3 now allows DBAs to monitor their availability databases, nodes, and listeners through AlwaysOn Availability Clusters in SQL Server 2012 and newer. AlwaysOn automatically switches auditing from the primary to the secondary replica in the event of failure as well as failback to primary when it comes back online. This advantage prevents a loss of the audit data trail in the event of failure. IDERA SQL Inventory Manager allows you to view this information in the Explorer view.

For additional information about IDERA SQL Inventory Manager and the AlwaysOn Availability Groups feature, see Exploring your instances.

Introduces configurable health checks

New configurable health checks allow you to customize certain health checks to better suit your environment. These configurable checks include:

- Database at risk (Data)
- Database at risk (Logs)
- Volume at risk

Enhanced Discovery

Enhancing the SQL Server instance discovery features is an important aspect of IDERA SQL Inventory Manager. These updates include:

- New BI and reporting service discovery shows users where BI services are running in their environment, helping you keep track of the infrastructure external to the database servers themselves that they may need to bring under management.
- Discovery at the organizational unit (OU) level allows you to specify narrower slices of your domain for discovery, which is valuable in large,complex, or highly secured environments where broader discovery may cause issues.
- Exclude filters on domains allow you to prevent IDERA SQL Inventory Manager from running discovery on domains which are known not to be relevant or appropriate for discovery scans.

Improved IDERA SQL Inventory Manager user interface

IDERA SQL Inventory Manager features a new look and feel. Some changes include:

- **Colors**. New colors reflect updated IDERA branding rolled out across all IDERA products
- **Navigation**. The primary navigation moves away from product-specific tabs to a dropdown selection in the header adjacent to the IDERA logo. If you have multiple IDERA products installed in your environment, be sure to select the appropriate product before using any features.
- **Administration menu**. Common tasks previously accessed only on the Administration tab now are available from a new **Administration** menu on the right side of the menu bar.

Increased functionality offered in IDERA Dashboard

IDERA Dashboard functionality and offerings are expanded. IDERA Dashboard now includes:

- **Global tags**. Using IDERA Dashboard 3.0.x or later, users can create global tags that are available across all IDERA products using IDERA Dashboard. Local or product-specific tags still are available but cannot be used outside of their parent product. For more information about tags within IDERA SQL Inventory Manager, see Managing tags.
- **Increased instance management**. The IDERA Dashboard tracks instances discovered and managed by individual IDERA product. For more information about instances within IDERA SQL Inventory Manager, see Managing instances.

2.3 Fixed issues

- IDERA SQL Inventory Manager 2.3 includes code improvements that resolve a Java heap space error experienced by some users upgrading from previous versions of IDERA SQL Inventory Manager.
- Users who upgrade from a previous version of IDERA SQL Inventory Manager (previously

named SQL Elements) no longer see a ServiceUser account with MONITORING GROUP type in the database. This was a legacy account that now is deleted.
- IDERA SQL Inventory Manager now allows users to log in using integrated security through their Windows login credentials.
- Users now can successfully log in with user names containing special characters as well as use special characters when updating the name or location of their SQL Server instances.
- Resolves an issue that caused IDERA SQL Inventory Manager to run scans on domains other than those selected.

IDERA SQL Inventory Manager lets you discover and visualize your SQL Server environment. Learn more > >

IDERA Website	Products	Purchase	Support	Community	About Us	Resources	Legal

Previous features and fixed issues

IDERA SQL Inventory Manager 2.3 includes many fixed issues, including the following updates from previous releases.

2.2 New features

Supports core licensing for SQL Server 2012 and later

Users who have SQL Server 2012 and later instances using core licensing now can take advantage of the following additional core license-specific features and support available in IDERA SQL Inventory Manager 2.2:

- Supporting tables that help you identify core factors
- Additional core-specific information displayed in the SQL Server Licensing view
- Ability to edit Microsoft SQL Server license details

For more information about using SQL Server core licensing within IDERA SQL Inventory Manager, see How to manage SQL Server licensing.

Supports MS SQL Server 2016

IDERA SQL Inventory Manager 2.2 and later support hosting repositories and monitoring instances using SQL Server 2016. For more information about supported platforms, see Soft ware requirements.

Improved performance

IDERA SQL Inventory Manager 2.2 includes a number of internal updates aimed at improving performance.

Allows configuration for some health checks

Users now can configure the alert threshold settings for the following health checks to customize alerts for particular environments:

- Database backup is not current
- SQL Server is down
- SQL Server is slow

For more information about customizing these health check alerts, see How to manage health checks.

2.2 Fixed issues

The following issues are fixed in IDERA SQL Inventory Manager 2.2 and no longer represent an issue:

Platform-specific fixed issues

- IDERA SQL Inventory Manager now successfully connects to SQL Server 2012 servers that have SP2 CU7 applied.
- IDERA SQL Inventory Manager no longer displays an incorrect version for SQL Server 2012 SP3. Previously, SQL Server 2012 SP3 appeared as SQL Server 2012 SP2.

Licensing fixed issues

- This release fixes an issue causing some users to experience the following error message when attempting to add a license key:
  `Missing resource message key= [com.idera.common.rest.RestException: An exception occurred setting the product configuration.] args=[]`

Discovery fixed issues

- The Discovery Status log now correctly uses the localized data and time format. You can view a read-only log of all the actions and events occurring during the instance discovery process by clicking **Discovery Status** on the Administration tab.

Monitoring fixed issues

- Users now can successfully create an alias for an application that contains special characters in the current name.
- Users now can successfully use special characters in SQL Server instance locations.
- Improved metrics utilization in this release resolves an issue causing some users to see inconsistent server counts over a period of time

IDERA SQL Inventory Manager lets you discover and visualize your SQL Server environment. Learn more > >

IDERA Website	Products	Purchase	Support	Community	About Us	Resources	Legal

Known issues

IDERA SQL Inventory Manager provides fundamental information on your SQL Servers to help you manage and keep track of your database environment without having to be an expert in Microsoft SQL Server. It gives a broad enterprise-wide view of all your SQL Servers through automated discovery as well as simple, actionable information about the state of your environment. View core information such as how many databases exist, whether they are being backed up, get access to options like availability monitoring, and notification emails so you can take action as needed.

IDERA strives to ensure our products provide quality solutions for your SQL Server needs. If you need further assistance with any issue, please contact Technical Support.

The following issues are known in this version of IDERA SQL Inventory Manager:

Upgrading from a previous version

Because of the addition of roles, all user accounts in a previous version of the product are added to the IDERA Dashboard but are not assigned a role and cannot access IDERA SQL Inventory Manager until the administrator changes the account permissions. Note that the administrator is the account specified during the IDERA Dashboard installation.

To change user account permissions, go to **IDERA Dashboard > Administration > Manage Users**. Edit a user account. Select the IDERA SQL Inventory Manager product, and then assign a role of **Product Administrator**, **Product User**, or **Product Guest**. Click **Save**, and then repeat these steps for each user account.

Now grant the user accounts access to the instances in your environment. Go to **SQL Inventory Manager > Administration > Manage Users**. Click the link for the name of the user account. In the **Access to SQL Server Instances** section of the Edit Users window, select whether you want to grant the user account access to all instances or a selection of instances. If you want to grant access to only selected instances, choose those instances using whether the tag or instance name. Click **Save**.

For more information about user accounts and roles, see Managing users in the IDERA Dashboard.

Known issues in version 2.3

Patch filtering for SQL Server 2008 includes SQL Server 2008 R2

When filtering views or viewing hotfixes for SQL Server 2008, SQL Server 2008 R2 versions are included in the list.

DB on Availability Group view selection occasionally fails to display secondary node information

The **DB on Availability Group** view selection in the Explorer view fails to display secondary node information when an availability group is in a resolving state or when the secondary node is offline.

DB on Availability Group page Status information update is not immediate after a failover

Status information on the DB on Availability Group page may take up to an hour to update after a failover

Previous known issues

Installation and upgrade issues

- IDERA SQL Inventory Manager 2.2 and later no longer support the use of SQL Server 2005 as a repository. The product does continue to support discovered and managed instances on SQL Server 2005.
- Upgrading to IDERA SQL Inventory Manager 2.0 and later creates an IDERA Dashboard user named service user with the type of Monitoring Group.
- IDERA SQL Inventory Manager 2.0 is NOT SUPPORTED on SQL Server 2012 SP2 CU7. Users attempting to connect to instances on this version of SQL Server receive a connection error. IDERA is working on a solution for this issue.

IDERA Dashboard issues

- The SQL Server Licensing widget displays an unnecessary bracket character in the **# of Sockets** field.
- The number of discovered instances does not match in the Dashboard and the Discovered Instances tab.
- In IDERA Dashboard, the Manage Instances view under the Administration view displays both monitored and unmonitored instances instead of only monitored instances. All users will be able to access the list of instances in the Instance Detail tab under IDERA Dashboard; however, only users with specific Dashboard access will be able to see the instance details. In IDERA SQL Inventory Manager, the Managed tab under the Instances view correctly displays only monitored instances.

Discovery issues

- IDERA SQL Inventory Manager incorrectly displays SQL Server 2012 SP3 as SQL Server 2012 SP2 in the Discovered Instances tab.
- Instead of displaying only managed instances on the Instances view, IDERA Dashboard displays all discovered instances. This tab also may display some instances that are removed from IDERA products.
- Scanning cross-domains using multiple accounts/credentials will not yield any discovered instances even if one of the supplied credentials in the multiple accounts setting is correct for that domain. At this time, multiple accounts/credentials only work for the same domain. For example, in your environment, IDERA SQL Inventory Manager 2.0 is installed on domain A and you request a scan of domain B. Even when using credentials that are included in the multiple credentials list, IDERA SQL Inventory Manager does not return results that include data from any outside domain. As an alternate, you can run the specific domain scan using specific Windows user or IDERA SQL Inventory Manager service account (under the domain setting).
- Discovery Status displaying incorrect value for scans other than SQL Server Resolution Services. When you run a scan using method other than SQL Server Resolution Services, it will run and scan and discover instances using the selected method. However, the

discovery status log will have an incorrect log referencing SQL Server Resolution Services.
- When using the Setup Wizard to manage discovery, the IP Address Ranges and Domain Run Scan Now option is disabled even though an IP address or domain is selected. The workaround is to clear and then recheck those options.
- In order to connect to a named instance on Amazon RDS, use the following format: `machinename\instancename,port`

Monitoring issues

- IDERA SQL Inventory Manager fails to collect transactional activity on some databases.
- IDERA SQL Inventory Manager occasionally displays the same application multiple times under different application IDs/names in the Applications list.
- When a user disables monitoring for a database, the associated Health Check Recommendations update correctly, but then do not update correctly when monitoring is re-enabled even if the user attempts to restart the service.
- Some users may receive an unexpected exception error when clicking **Save** after making a change in the Manage Health Check.
- *SQL Server 2000 only*: IDERA SQL Inventory Manager may display that the database consistency is not checked for some SQL Server 2000 databases although the checks are run. An additional run of the checks does not update this value.
- IDERA SQL Inventory Manager may display a foreign key constraint error message when a user attempts to edit or enter a value in some custom inventory fields.
- Users who have AlwaysOn Availability Group environments may notice errors caused by the unreadable state of the secondary cluster node.
- In environments with a large number of monitored instances, the Health Check Recommendations are not immediately updated when you decommission and recommission databases. There will be a slight delay for the health check recommendations to refresh.
- When using Internet Explorer, the Comments in the Database Details window are too light to read.

User Account issues

- In order to set up user account for email alerts, you first must set up and enter individual email addresses in the IDERA SQL Inventory Manager Manage Administration page. User accounts added using the Manage Users link in the IDERA Dashboard Administration tab do not have their associated email address appear when viewing the account in the IDERA SQL Inventory Manager Manage Users and Subscriptions window.
- In order to select the All Instances option for user permissions, you must select the hyperlink for that user account in the Manage Users and Subscriptions window. Select **All Instances**, and then click **Save**.

Reporting issues

- Reports exported to XML may not include the correct summary count as displayed in the PDF/XLS.
- Reports exported to PDF/XLS/XML do not include the **# of Cores**, **Core Factor**, and **Possible Core Licenses** values.

IDERA SQL Inventory Manager lets you discover and visualize your SQL Server environment. Learn more > >

IDERA Website	Products	Purchase	Support	Community	About Us	Resources	Legal

Welcome to SQL Inventory Manager

Welcome to IDERA SQL Inventory Manager, previously known as IDERA SQL Elements! Our newest solution for **EVERY DBA!**

IDERA SQL Inventory Manager lets you discover, track, and manage your SQL Server environment from a simple, lightweight web interface and is designed to be quick to install and easy to use.

This wiki helps you understand IDERA SQL Inventory Manager characteristics and provides step-by-step help on how to use all its features.

The following topics are included in this section:

- What is IDERA SQL Inventory Manager?
- How does SQL Inventory Manager help me?
- Searching SQL Inventory Manager
- Using SQL Inventory Manager Help
- Definition of terms
- About IDERA

IDERA SQL Inventory Manager lets you discover and visualize your SQL Server environment. ***Learn more > >***

IDERA Website	Products	Purchase	Support	Community	About Us	Resources	Legal

What is IDERA SQL Inventory Manager?

IDERA SQL Inventory Manager provides fundamental information on your SQL Servers to help you keep track of and manage your database environment without having to be an expert in Microsoft SQL Server. It gives a broad, enterprise-wide view of all your SQL Servers through automated discovery as well as simple, actionable information about the state of your environment. View core information such as how many databases exist and whether they are being backed up, and get access to options like availability monitoring and notification emails so you can take action as needed.

IDERA SQL Inventory Manager provides the following features:

- An inventory of your instances and databases.
- Continuous instance discovery in your environment.
- Health Checks for availability, configuration, disaster recovery, and capacity of your instances and databases.
- Email alerts to inform you about important issues like SQL Server instance availability or low drive space.
- Export reports of your instances and health check recommendations.

IDERA SQL Inventory Manager lets you discover and visualize your SQL Server environment. Learn more > >

IDERA Website	Products	Purchase	Support	Community	About Us	Resources	Legal

How does SQL Inventory Manager help me?

IDERA SQL Inventory Manager allows you to define the scope of your monitored environment providing information for those instances that you choose to monitor and helps you to:

- Discover automated instances.
- Get an overview of your environment status in terms of performance and health.
- Visualize important changes made to configuration, computer and database details.
- Receive alert notifications of the most critical issues in your environment.
- Export reports of your instances and health check recommendations.

IDERA SQL Inventory Manager lets you discover and visualize your SQL Server environment. Learn more > >

IDERA Website	Products	Purchase	Support	Community	About Us	Resources	Legal

Searching SQL Inventory Manager

Finding a specific server, instance, database, listener, or application is easy with the search field located in the IDERA menu bar. Simply type all or part of the name within the product, and then click **Go**. The system displays a list of items matching your search criteria, sorted by name. The window also includes the type of item returned, such as **Instance**, **Database**, or **Application**. Click the item name and you go to the appropriate view for that item. For example, click an instance name while using IDERA SQL Inventory Manager, and the Instance Details page for that instance appears. Click a database name, and the Database Details window for that database appears.

After you view the list of search results, click any other part of the window to close the search pop-up list.

IDERA SQL Inventory Manager lets you discover and visualize your SQL Server environment. Learn more > >

IDERA Website	Products	Purchase	Support	Community	About Us	Resources	Legal

Using SQL Inventory Manager Help

The IDERA Help wiki includes a comprehensive online help system as well as additional resources that support you as you install and use IDERA products.

Additionally, IDERA helps you by providing:

- 24/7 technical support for critical issues.
- Availability to report cases and access a web-based customer portal for update status.
- Access to our SQL Products Customer Portal where you can find FAQs, How To's, Best Practices, and Webcasts.

This wiki includes the following Web browser minimum requirements:

- Internet Explorer 9.0
- Mozilla Firefox 4
- Google Chrome 6

You can access the IDERA SQL Inventory Manager help system through the **HELP** option on the top right section of any tab or by clicking the question mark (**?**) on any dialog window.

You can print a help topic from the wiki using the Print function in your browser.

IDERA SQL Inventory Manager lets you discover and visualize your SQL Server environment. Learn more > >

IDERA Website	Products	Purchase	Support	Community	About Us	Resources	Legal

Definition of terms

Adhoc workloads

The option for optimizing adhoc workloads helps to improve the efficiency of the plan cache for workloads that contain many single user adhoc batches.

Auto shrink

Microsoft SQL Server automatically shrinks databases to remove unused space. In some cases shrinking databases may not be the best option for your environment since it may cause fragmentation.

IDERA SQL Inventory Manager provides a Health Check to let you know if the Auto Shrink option is enabled or disabled.

Availability data

Availability Data refers to the instance status (up or down), instance response time, and database status (normal, suspect, offline, inaccessible or emergency mode).

Capacity data

Capacity data refers to the storage capacity of your drives and databases in your environment. IDERA SQL Inventory Manager lets you know if your drives or databases are at risk of being full soon.

CHECKDB

Checks the logical and physical integrity of all the objects in the specified database. If corruption has occurred for any reason, the DBCC CHECKDB command will find it, and tell you exactly where the problem is.

Computer

Refers to the server that hosts a SQL Server, this maybe a physical or virtual server. IDERA SQL Inventory Manager gathers configuration, capacity, and performance data for SQL Server instance host servers, also known as "Servers."

Configuration data

IDERA SQL Inventory Manager performs the following configuration data checks:

- Auto Shrink configuration
- Xp_cmdshell configuration
- Tempdb files configuration

Database

A database is a data structure that stores organized information. Most databases contain multiple tables, which may each include several different fields. For example, a company database may include tables for products, employees, and financial records. Each of these tables would have different fields that are relevant to the information stored in the table.

Disaster recovery

Disaster recovery is a process to help you recover information if disaster occurs. Disaster

recovery planning refers to the preparation that must occur in response to a disaster. IDERA SQL Inventory Manager provides Health Checks that give you information of your latest backups, alerting you if any of your databases have not been backed up recently.

Health checks

Health checks include monitoring CPU utilization, database status, available disk space, database backup status, and other performance issues in general.

The purpose of performing Health Checks is to determine if settings are appropriate for your particular environment and if they allow you to have the highest performance and availability from your databases.

Instance

Also known as SQL Server or SQL server instance. SQL Server supports multiple “instances” or installations on the same host computer. Each instance runs independently from all others and has its own set of installation code, configuration parameters, system and user databases, memory allocation, and security configuration.

Location

The location refers to the physical or geographical location of an instance, such as Houston for example. IDERA SQL Inventory Manager allows you to add this information to the instance that you are registering so you can later filter and get details or graph views for the instances belonging to this location.

Owner

The owner refers to the user whom the instance belongs to. When you register an instance, IDERA recommends that you register the instance owner, so later you can easily get information from this owner and his/her respective instances.

Performance data

IDERA SQL Inventory Manager measures performance data such as CPU% usage, Memory % usage, Disk IO, and Network IO.

Service Control Manager SCM

SCM is a remote procedure call (RPC) server that allows the service configuration and service control programs to manipulate services on remote machines. The service control manager (SCM) is started when the system boots. One of the tasks performed by the SCM is enumerating installed services and driver services.

SQL Server Resolution Service

This method is used to direct client requests to the proper port when multiple instances of the SQL Server are running on the same system. When multiple instances of Microsoft SQL Server are installed, the default instance uses the standard and commonly associated TCP port of 1433. Once this port has been taken, the other installed instances of SQL Server must use an alternate, arbitrary port. This SQL Server Resolution Service instance checks UDP port 1434 to determine if any other instances of the Resolution Service are listening on this port; if there are no conflicting instances (which is the case if it is the first instance),then it binds to that port and becomes the SQL Server Resolution Service listener for all SQL Server instances on the server.

Tag

Tags help you group your instances for better management. For example, use a tag name such as "Business critical" to identify all your registered instances that are business critical to you, and have quick access to views and details from this group of instances.

A single instance can belong to one or more tags.

TCP Probe

TCP Probe is a module that attempts to connect to a TCP/IP address on specified ports and starts the SQL Server connection negotiation packet exchange. If the remote system responds to the initial packet correctly it records the address and port.

Tempdb files

It is important to configure the tempdb files with the same initial size and with the same growth settings so that Microsoft SQL Server can write the data across the files as evenly as possible. The data files for tempdb should all be the same size and large enough to handle workload for 24 hours. This configuration helps SQL Server distribute the work evenly across the tempdb data files.

IDERA SQL Inventory Manager provides a Health Check to let you know if tempdb files are the same size or not.

Windows Registry

The Windows Registry is a hierarchical database that stores configuration settings and options on Microsoft Windows operating systems. It contains settings for low-level operating system components and for applications running on the platform that have opted to use the registry. The kernel, device drivers, services, SAM, user interface, and third party applications can all make use of the registry. The registry also provides a means to access counters for profiling system performance.

WMI Enumeration

WMI allows to use a simple, consistent mechanism to query for information or configure settings on computers or enumerate objects on computers across an enterprise.

Xp_cmdshell

Xp_cmdshell is essentially a mechanism to execute arbitrary calls into the system using either the SQL Server context (i.e. the Windows account used to start the service) or a proxy account that can be configured to execute xp_cmdshell using different credentials.

When xp_cmdshell is enabled, the user could escalate his/her privileges to sysadmin. It is important to be aware which instances have the xp_cmdshell option enabled for security reasons.

IDERA SQL Inventory Manager provides a Health Check to let you know if the xp_cmdshell is enabled or disabled in an instance.

IDERA SQL Inventory Manager lets you discover and visualize your SQL Server environment. Learn more > >

IDERA Website	Products	Purchase	Support	Community	About Us	Resources	Legal

About IDERA

IDERA is a leading provider of application and server management solutions. We have a wide variety of performance management products for Microsoft SQL Server and award-winning server backup solutions for both managed service providers and enterprise customers. IDERA products install in minutes and start solving server problems immediately, giving administrators more time, reduced overhead and expenses, and increased server performance and reliability. We are a Microsoft Gold Certified partner, headquartered in Houston, Texas, with offices in Asia Pacific, Australia, New Zealand, Europe, Africa, and Latin America. So we're everywhere your IT needs are.

IDERA SQL Inventory Manager lets you discover and visualize your SQL Server environment. Learn more > >

IDERA Website	Products	Purchase	Support	Community	About Us	Resources	Legal

IDERA products

Our tools are engineered to scale from managing a single server to enterprise deployments with thousands of servers. IDERA products combine ease of use with a design that installs in minutes, configures in hours, and deploys worldwide in days. To learn more about IDERA products, visit the IDERA Web site at http://www.idera.com.

IDERA SQL Inventory Manager lets you discover and visualize your SQL Server environment. Learn more > >

IDERA Website	Products	Purchase	Support	Community	About Us	Resources	Legal

Contact IDERA

Please contact IDERA with your questions and comments. We look forward to hearing from you. For support around the world, please contact us or your local partner.

For a complete list of our partners, please visit our website.

Sales	713.523.4433 1.877.GO.IDERA (464.3372) (only in the United States and Canada)
Sales Email	sales@idera.com
Support	713.533.5144 1.877.GO.IDERA (464.3372) (only in the United States and Canada) http://www.idera.com/support/productsupport
Website	www.idera.com/

IDERA SQL Inventory Manager lets you discover and visualize your SQL Server environment. Learn more > >

IDERA Website	Products	Purchase	Support	Community	About Us	Resources	Legal

Legal notice

IDERA, Inc. (“Idera”) makes information and products available on this web site, subject to the following terms and conditions. By accessing this web site, you agree to these terms and conditions. Idera reserves the right to change these terms and conditions, and the products, services, prices, and programs mentioned in this web site at any time, at its sole discretion, without notice. Idera reserves the right to seek all remedies available by law and in equity for any violation of these terms and conditions. THIS WEB SITE COULD INCLUDE TECHNICAL OR OTHER INACCURACIES. CHANGES ARE PERIODICALLY MADE TO THE INFORMATION HEREIN. HOWEVER, IDERA MAKES NO COMMITMENT TO UPDATE MATERIALS ON THIS WEB SITE.

Trademark

IntelliCompress, PowerShellPlus, SQL Elements, SQL check, SQL change manager, SQL comparison toolset, SQL compliance manager, SQLcompliance, SQLcm, SQL defrag manager, SQL diagnostic manager, SQLdm, SQL mobile manager, SQLpermissions, SQLsafe, SQLsafe Freeware Edition, SQLsafe Lite, SQL schema manager, SQLsecure, SQLsmarts, SQLstats, SQLtool, SQL toolbox, SQL virtual database, SQLvdb, virtual database, Idera, BBS Technologies and the Idera logo are trademarks or registered trademarks of Idera, Inc., or its subsidiaries in the United States and other jurisdictions. All other company and product names may be trademarks or registered trademarks of their respective companies. Elements of this web site are protected by trade dress or other laws and may not be imitated or reproduced in whole or in part.

Copyright

The information on this web site is protected by copyright. Except as specifically permitted, no portion of this web site may be distributed or reproduced by any means, or in any form, without Idera’s prior written consent.

Use of the Software

The software and accompanying documentation available to download from this web site are the copyrighted work of Idera. Use of the software is governed by the terms of the License Agreement, which accompanies such software. If no license accompanies the download, the terms of the license, which accompanied the original product being updated, will govern. You will not be able to use, download, or install any software unless you agree to the terms of such License Agreement.

Use of web site information

Except as otherwise indicated on this web site, you may view, print, copy, and distribute documents on this web site subject to the following terms and conditions:

1. The document may be used solely for informational, personal, non-commercial purposes;
2. Any copy of the document or portion thereof must include all copyright and proprietary notices in the same form and manner as on the original;
3. The document may not be modified in any way; and
4. Idera reserves the right to revoke such authorization at any time, and any such use shall be discontinued immediately upon notice from Idera.

Documents specified above do not include logos, graphics, sounds or images on this web site or

layout or design of this web site, which may be reproduced or distributed only when expressly permitted by Idera.

Warranties and Disclaimers; Liability Limitations

EXCEPT AS EXPRESSLY PROVIDED OTHERWISE IN AN AGREEMENT BETWEEN YOU AND IDERA, ALL INFORMATION AND SOFTWARE ON THIS WEB SITE ARE PROVIDED "AS IS" WITHOUT WARRANTY OR CONDITIONS OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OR CONDITIONS OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR NON-INFRINGEMENT.

IDERA ASSUMES NO RESPONSIBILITY FOR ERRORS OR OMISSIONS IN THE INFORMATION OR SOFTWARE OR OTHER DOCUMENTS WHICH ARE REFERENCED BY OR LINKED TO THIS WEB SITE.

IN NO EVENT SHALL IDERA BE LIABLE FOR ANY SPECIAL, INCIDENTAL, INDIRECT OR CONSEQUENTIAL DAMAGES OF ANY KIND, OR ANY DAMAGES WHATSOEVER (INCLUDING WITHOUT LIMITATION, THOSE RESULTING FROM: (1) RELIANCE ON THE MATERIALS PRESENTED, (2) COSTS OF REPLACEMENT GOODS, (3) LOSS OF USE, DATA OR PROFITS, (4) DELAYS OR BUSINESS INTERRUPTIONS, (5) AND ANY THEORY OF LIABILITY, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF INFORMATION) WHETHER OR NOT IDERA HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. SOME STATES DO NOT ALLOW THE LIMITATION OR EXCLUSION OF LIABILITY FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES SO THE ABOVE LIMITATIONS OR EXCLUSIONS MAY NOT APPLY TO YOU.

Submissions

With the exception of credit card numbers for the purchase of products and services, Idera does not want to receive confidential or proprietary information through its web site.

Any information sent to Idera, with the exception of credit card numbers, will be deemed NOT CONFIDENTIAL. You grant Idera an unrestricted, irrevocable license to display, use, modify, perform, reproduce, transmit, and distribute any information you send Idera, for any and all commercial and non-commercial purposes.

You also agree that Idera is free to use any ideas, concepts, or techniques that you send Idera for any purpose, including, but not limited to, developing, manufacturing, and marketing products that incorporate such ideas, concepts, or techniques.

Idera may, but is not obligated to, review or monitor areas on its web site where users may transmit or post communications, including bulletin boards, chat rooms, and user forums. Idera is not responsible for the accuracy of any information, data, opinions, advice, or statements transmitted or posted on bulletin boards, chat rooms, and user forums.

You are prohibited from posting or transmitting to or from this web site any libelous, obscene, defamatory, pornographic, or other materials that would violate any laws. However, if such communications do occur, Idera will have no liability related to the content of any such communications.

Some companies, names, and data in this document are used for illustration purposes and may not represent real companies, individuals, or data.

Governing Law and Jurisdiction

You agree that all matters relating to your access to, or use of, this web site shall be governed by the laws of the state of Texas. You agree and hereby submit to the exclusive personal jurisdiction and venue of the state courts of Texas located in Harris County, Texas, and the United States District Court for the Southern District of Texas, with respect to such matters.

Idera makes no representation that information on this web site are appropriate or available for use in all countries, and prohibits accessing materials from territories where contents are illegal. Those who access this site do so on their own initiative and are responsible for compliance with all applicable laws.

Export Control Laws

Certain Idera products, including software, documentation, services, and related technical data, available on the Idera and other web sites are subject to export controls administered by the United States (including, but not limited to, the U.S. Department of Commerce Export Administration Regulations (“EAR”)) and other countries including, controls for re-export under European Union, the Singapore Strategic Goods Control Act, and the import regulations of other countries. Diversion contrary to U.S. or other applicable law of any Idera product or service is prohibited. Export, re-export or import of products and services may require action on your behalf prior to purchase and it is your responsibility to comply with all applicable international, national, state, regional and local laws, and regulations, including any import and use restrictions. Idera products and services are currently prohibited for export or re-export to Cuba, Iran, North Korea, Sudan, Syria, or to any country then subject to U.S. trade sanctions. Idera products and services are prohibited for export or re-export to any person or entity named on the U.S. Department of Commerce Denied Persons, Entities and Unverified Lists, the U.S. Department of State's Debarred List, or the U.S. Department of Treasury's lists of Specially Designated Nationals, Specially Designated Narcotics Traffickers, or Specially Designated Terrorists. Idera products and services are prohibited from use with chemical or biological weapons, sensitive nuclear end-users, or missiles, drones or space launch vehicles capable of delivering such weapons. By downloading or using any product from this web site, or purchasing any service, you are acknowledging that you have read and understood this notice and agree to comply with all applicable export control laws. You are also representing that you are not under the control of, located in, or a resident or national of any prohibited country, and are not a prohibited person or entity. This notice is not intended to be a comprehensive summary of the export laws that govern the products and services. It is your responsibility to consult with a legal adviser to ensure compliance with applicable laws.

United States Government Rights

All Idera products and publications are commercial in nature. The software, publications, and software documentation available on this web site are "Commercial Items", as that term is defined in 48 C.F.R.§2.101, consisting of "Commercial Computer Software" and "Commercial Computer Software Documentation", as such terms are defined in 48 C.F.R. §252.227-7014(a)(5) and 48 C.F.R. §252.227-7014(a)(1), and used in 48 C.F.R.?12.212 and 48 C.F.R. 227.7202, as applicable. Pursuant to 48 C.F.R. §12.212, 48 C.F.R.§252.227-7015, 48 C.F.R. §227.7202 through 227.7202-4, 48 C.F.R. §52.227-19, and other relevant sections of the Code of Federal Regulations, as applicable, Idera's publications, commercial computer software, and commercial computer software documentation are distributed and licensed to United States Government end users with only those rights as granted to all other end users, according to the

terms and conditions contained in the license agreements that accompany the products and software documentation, and the terms and conditions herein.

© 2003-2016 Idera, Inc., all rights reserved.

IDERA SQL Inventory Manager lets you discover and visualize your SQL Server environment. Learn more > >

IDERA Website	Products	Purchase	Support	Community	About Us	Resources	Legal

Getting started

To get started, learn the basics for installing IDERA SQL Inventory Manager, discovering and registering your instances, subscribing to alerts, managing your users, enabling automatic registration, managing licenses, and other key IDERA SQL Inventory Manager features.

The following topics are included in this section:

- Upgrade to this release
- Installation and deployment
- What login and password should you use to log in to SQL Inventory Manager?
- What options do you have when you first install SQL Inventory Manager?
- Administering SQL Inventory Manager
- Add SQL Server instances
- How to import SQL Server instances
- Discovering new instances
- Configuring email settings for alert notifications
- Subscribing to Alerts
- Managing tags
- Managing users in SQL Inventory Manager
- How to manage the Auto Registration Options
- Managing Licenses

IDERA SQL Inventory Manager lets you discover and visualize your SQL Server environment. Learn more > >

IDERA Website	Products	Purchase	Support	Community	About Us	Resources	Legal

Upgrade to this release

This version of IDERA SQL Inventory Manager brings you new features that will help you improve the management of your environment. Upgrade to this new release so you can access and make the most of these features.

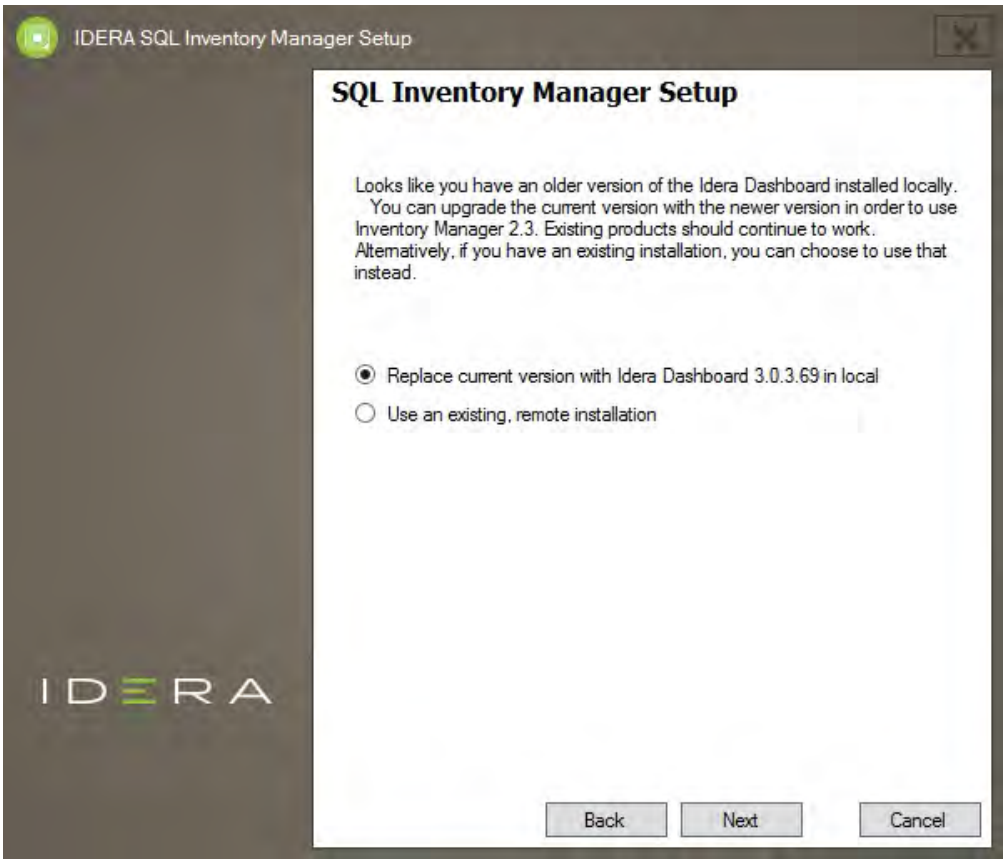
Click here to access the list of new features for this release.

Before upgrading, take into account the following checklist:

- Back up your IDERA SQL Inventory Manager and Core Repositories. The upgrade process will convert the repositories from the previous schema to the current schema. Once you finish the upgrade you cannot revert to previous repositories, be sure to take a backup in case you want to revert to a previous version of the schema.
- Make sure that your environment meets the hardware and software requirements for installing IDERA SQL Inventory Manager.
- Ensure you have the required accounts and permissions.

To upgrade to this release:

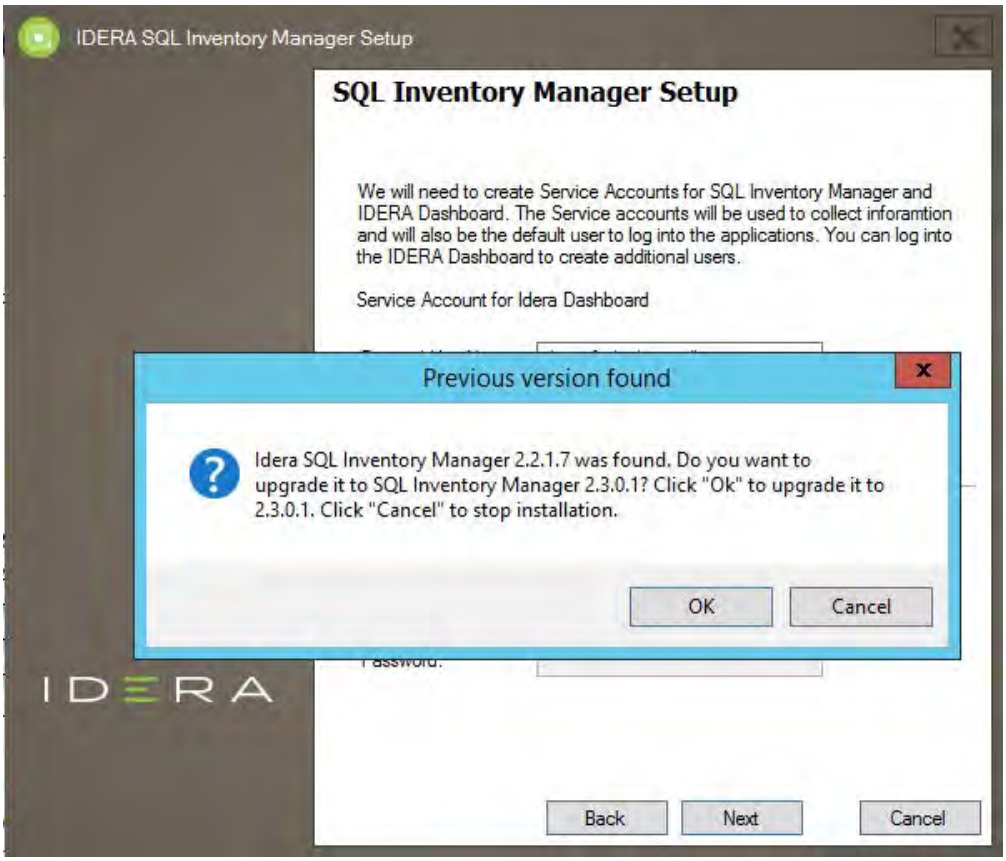
1. Open the installer, click **Proceed**.
2. Read the License Agreement. If you agree, click **I accept the Terms and Conditions** and then click **Next**.
3. The IDERA SQL Inventory Manager installer detects if you have a previous local installation.



4. Select **Replace current version**. Click **Next.**
5. Enter your service credentials. For more information you can refer to Installing SQL

Inventory Manager.

6. Before you upgrade to the latest version, IDERA SQL Inventory Manager prompts the following window.
7. Click **OK** to proceed with the upgrade.



8. SQL Inventory Manager informs you it will use and upgrade an existing SQL Inventory Manager database. Click **Next** to continue.
9. On the next screen, click **Install** if you are ready to start the upgrade. If you want to review or change any of your upgrade settings, click **Back**
10. After the installation is finished, you can choose to Launch IDERA SQL Inventory Manager immediately.

When IDERA SQL Inventory Manager launches on your browser, you should use your Windows user account with your respective password to log in to the product. Please take into account that IDERA SQL Inventory Manager does not store passwords

Keep in mind that with the upgrade to the latest version:

- You keep your previously registered instances and their respective data.
- Services continue to run on same port as before the upgrade.
- Home page Web URL does not change.

⚠ Take into account that if you install a new version of IDERA SQL Inventory Manager in a distributed environment where previous versions of repositories were installed, these repositories will be updated but will remain linked to previous services. To avoid this issue you can:

- Uninstall the previous IDERA SQL Inventory Manager version to unlink repositories

from previous services
- Upgrade to a new IDERA SQL Inventory Manager version, launching the installer from the server machine where the previous services were installed

IDERA SQL Inventory Manager lets you discover and visualize your SQL Server environment. Learn more > >

IDERA Website	Products	Purchase	Support	Community	About Us	Resources	Legal

Installation and deployment

This section provides you step-by-step information for installing IDERA Dashboard and IDERA SQL Inventory Manager.

It is important that you learn about the product architecture and components, hardware and software requirements, and the required accounts and permissions you need to have before installing these products.

The following topics are included in this section:

- Product components and architecture
- Product requirements
- Installation instructions
- Log in to the IDERA Dashboard

IDERA SQL Inventory Manager lets you discover and visualize your SQL Server environment. Learn more > >

IDERA Website	Products	Purchase	Support	Community	About Us	Resources	Legal

Product components and architecture

IDERA Dashboard and IDERA SQL Inventory Manager consist of a light, unobtrusive architecture that easily runs in your SQL Server environment with minimal configuration. All components run outside and separate from SQL Server processes.

- **IDERA Dashboard**. Provides web and back-end services, shared across multiple IDERA products. To learn more about the IDERA Dashboard components and architecture, see IDERA Dashboard components and architecture.
- **IDERA SQL Inventory Manager**. Offers a simple architecture which runs in your SQL Server environment with minimal configuration. The web-based interface allows you to easily access the status of your environment from any computer at any location without adding or modifying your native SQL Server files or services. This topic contains additional information about the IDERA SQL Inventory Manager components and architecture.

IDERA SQL Inventory Manager consists of the following components:

IDERA SQL Inventory Manager User Interface

IDERA SQL Inventory Manager provides a web-based user interface. This interface is used to view data about your monitored SQL Server instances, as well as to administer IDERA SQL Inventory Manager.

The web-based user interface does not require IIS or other internet servers. The user interface web service is self-hosting and through it you can find multiple views that help you to:

- Discover instances in the environment that you specify and register those you want to monitor.
- Monitor availability, capacity, configuration, and performance data from your monitored instances, their respective databases, and host computers.
- View health check recommendations and availability status for monitored instances and databases.
- Receive email alerts on availability and capacity issues.
- View instances information grouped by tags, owners, locations, and other filters.
- Export health checks recommendations and instance information from the different tabs.
- View information that will help you assess your SQL Server licensing requirements.

This Web Application can seamlessly be accessed through Internet Explorer 9 or later, Google Chrome, and Mozilla Firefox.

You can access IDERA SQL Inventory Manager web application through the following link:

http://<*ServerName*>:<web application port>

Where *ServerName* is the name of the machine on which you installed the IDERA SQL Inventory Manager services and the Web application port refers to the one you specified during installation, or by default port 9276.

> You must grant new users access to be able to login into IDERA SQL Inventory Manager web interface. For adding users go to Managing users in SQL Inventory Manager .

IDERA SQL Inventory Manager services

IDERA SQL Inventory Manager uses the following windows services:

- IDERA Web Server
- IDERA Core Service
- IDERA SQL Inventory Manager Collection Service

IDERA SQL Inventory Manager uses the Collection Service account to gather information from monitored instances and their host computers. To change this default setting, go to Editing instances properties.

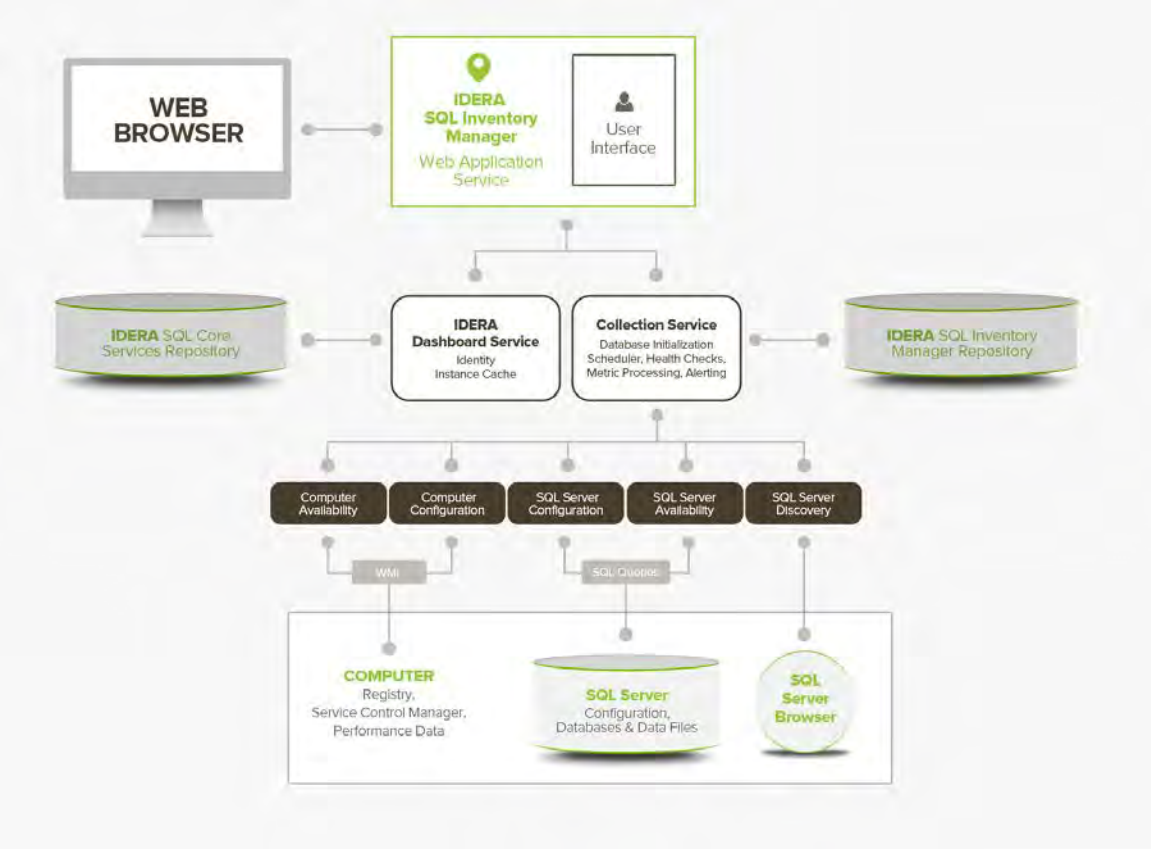
IDERA SQL Inventory Manager repositories

IDERA SQL Inventory Manager creates the two following databases on installation:

- IDERA SQL Inventory Manager Repository
- IDERA Core Services Repository

These databases store information related to application users, configuration information, and data gathered for the monitored instances.

The following diagram represents IDERA SQL Inventory Manager architecture:



IDERA SQL Inventory Manager lets you discover and visualize your SQL Server environment. Learn more > >

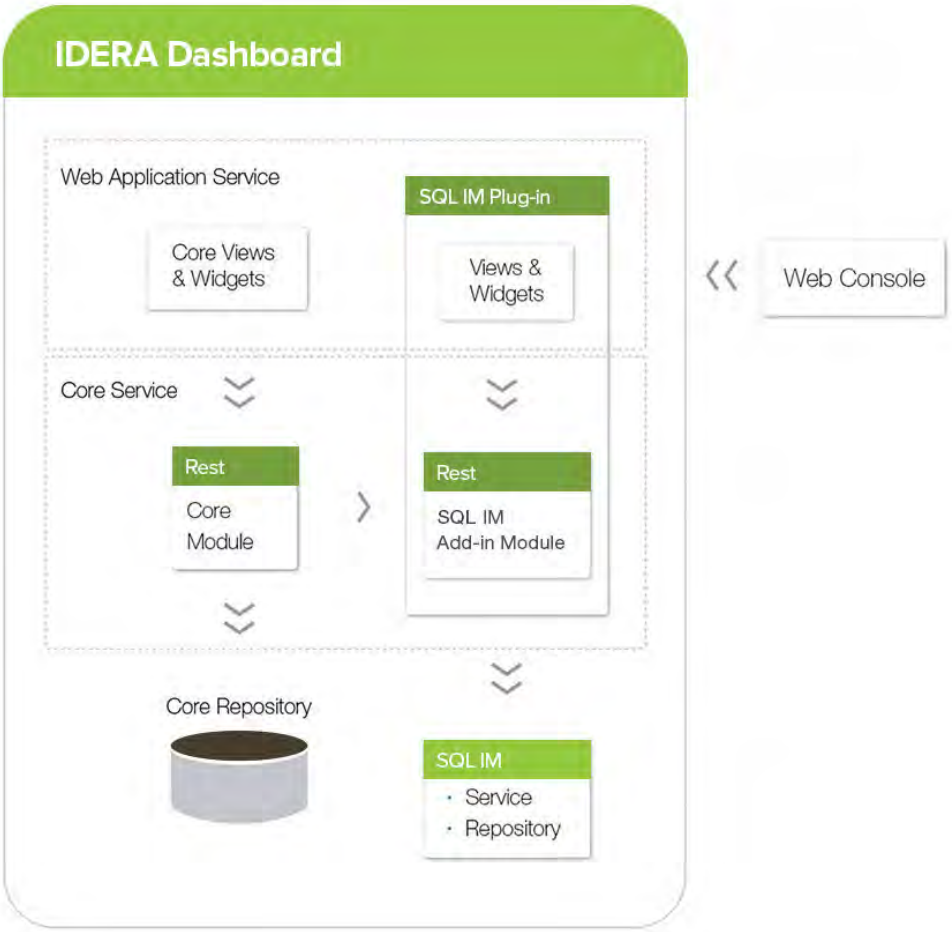
IDERA Website	Products	Purchase	Support	Community	About Us	Resources	Legal

IDERA Dashboard components and architecture

The IDERA Dashboard provides web and back end services, shared across multiple IDERA products. To learn more about what the IDERA Dashboard is and how it works, see Navigate the IDERA Dashboard web console.

The IDERA Dashboard consists of the following components:

- Web Application Service
- Core Service
- Core Repository



Web Application Service

The Web Application Service is a Windows service that wraps Apache Tomcat server. The Web Application Service serves up dashboard (IDERA Dashboard) and IDERA SQL Inventory Manager views and widgets that are displayed in the web console. The Web Application Service requires two ports:

- Standard HTTP port (by default 9290)
- SSL port (9291)

Core Service

The Core Service is a C# (.NET 4.0 Framework) based Windows service that hosts dashboard

and IDERA SQL Inventory Manager REST APIs that are used by the Web Application Service to configure and retrieve data. In addition, the Core Service handles product registration, security, configuration, product data, and event aggregation.

The Core Service uses two ports, one for REST API and the other for .NET remoting:

- Core Service REST API port (by default 9292)
- .NET remoting port (by default 9293)

Core Repository

The Core Repository is a database where all dashboard configuration and aggregated data is stored. The Core Repository database is hosted on a SQL Server instance and is accessed by the Core Service to retrieve data.

IDERA SQL Inventory Manager lets you discover and visualize your SQL Server environment. Learn more > >

IDERA Website	Products	Purchase	Support	Community	About Us	Resources	Legal

Product requirements

Before installing the IDERA Dashboard and IDERA SQL Inventory Manager, be sure to review the system requirements.

- Learn about the IDERA SQL Inventory Manager hardware requirements.
- Learn about the IDERA Dashboard and IDERA SQL Inventory Manager software requirements.
- Learn about the Required accounts and permissions.

IDERA SQL Inventory Manager lets you discover and visualize your SQL Server environment. Learn more > >

IDERA Website	Products	Purchase	Support	Community	About Us	Resources	Legal

Hardware requirements

IDERA SQL Inventory Manager collection services requirements

The following are the requirements for hosting IDERA SQL Inventory Manager collection services:

Hardware type	Requirement
CPU	1 GHz
Memory	1 GB
Hard Drive Space	128 MB
Monitor Resolution	1024 by 768 pixels

IDERA SQL Inventory Manager repository requirements

For IDERA SQL Inventory Manager repositories, you need 1GB to 3GB, for one year of data, per monitored SQL Server instance.

IDERA SQL Inventory Manager hardware sizing example

The following example provide an estimation of the hardware resources required to deploy IDERA SQL Inventory Manager depending on the number of servers you want to manage.

Example IDERA SQL Inventory Manager requirements for up to 1100 monitored instances

Type	Requirement
Operating System	Microsoft Windows Server 2012 R2 Standard
CPU	Intel(R) Xeon(R) CPU E5-2676 v3 @ 2.40GHz, 2400 Mhz, 2 Core(s), 4 Logical Processor(s)
Memory	16 GB
SQL Server	Microsoft SQL Server 2014 Standard (64-bit)

IDERA SQL Inventory Manager lets you discover and visualize your SQL Server environment. Learn more > >

IDERA Website	Products	Purchase	Support	Community	About Us	Resources	Legal

Software requirements

IDERA Dashboard and IDERA SQL Inventory Manager services requirements

You need to comply with the following requirements to install the IDERA Dashboard and IDERA SQL Inventory Manager collection services:

Type	Requirement	Suggestions
Windows Data Access Components	6.0 or later	
Microsoft .NET Framework version	4.5	If this software is not already installed on your computer, you must install it prior to the installation of IDERA SQL Inventory Manager. For more information about the .NET Framework, see the MSDN article .NET Framework Versions and Dependencies.
Operating System	• Windows 2008 R2 and later • Windows 7 and later	

IDERA Dashboard and IDERA SQL Inventory Manager repository requirements

The IDERA Dashboard and IDERA SQL Inventory Manager support any of the following versions for hosting the repositories:

Type	Requirement
SQL Server Express, Standard, or Enterprise Edition	• SQL Server 2008 • SQL Server 2008 R2 • SQL Server 2012 • SQL Server 2014 • SQL Server 2016

Monitored SQL Server instances requirements

All SQL Server instances that you wish to monitor should comply with the following requirements:

Type	Requirement

SQL Server Express, Standard, or Enterprise Edition	• SQL Server 2000 • SQL Server 2005 • SQL Server 2008 • SQL Server 2008 R2 • SQL Server 2012 • SQL Server 2014 • SQL Server 2016

Browser requirements

The IDERA Dashboard and IDERA SQL Inventory Manager user interfaces can be accessed via web with the following browsers:

- Internet Explorer IE 10.x+
- Google Chrome
- Mozilla Firefox
- Microsoft Edge
- Safari

Port requirements

The IDERA Dashboard uses the following ports:

- Web Application Service: **9290** (Standard HTTP port) and **9291** (SSL port)
- Core Service: **9292** (REST API port) and **9293** (.NET remoting port)

IDERA SQL Inventory Manager uses the following port:

- Collection service port: **9275**

> The IDERA Dashboard Web Application service comes with SSL already set up. For more information on running the IDERA Dashboard over SSL, see Run IDERA Dashboard over SSL (HTTPS).

SQL Inventory Manager lets you discover and visualize your SQL Server environment. Learn more > >

IDERA Website	Products	Purchase	Support	Community	About Us	Resources	Legal

Required accounts and permissions

IDERA SQL Inventory Manager connects to registered SQL Server instances and their host computers to collect information. The collection service requires permissions to connect and gather information using SQL and WMI connection credentials.

Depending on the level of access and actions you want IDERA SQL Inventory Manager to perform on your environment, you should check you have the following permissions in each account:

Account	Action	Permissions required
Windows User Account	To install IDERA SQL Inventory Manager components	Windows Administrator permission on the Target computer
	To create and access the IDERA SQL Inventory Manager repository databases	• Create Database Rights on the target SQL Server Instance • Read and write privileges on the IDERA SQL Inventory Manager Repository Databases
SQL Server login account	For most SQL queries	VIEW SERVER STATE VIEW ANY DATABASE VIEW ANY DEFINITION
	To monitor database information	ALTER ANY DATABASE server level permission or CREATE DATABASE in the master database
	For DBCC CHECKDB	sysadmin server roles
WMI account	To access remote WMI data	Additional rights on a group that has been given remote access

IDERA suggests that you provide SQL connection credentials with "sysadmin" server roles if you want to be able to collect all information from your environment.

For more information on how to solve connection problems with WMI, see Troubleshooting WMI issues.

IDERA SQL Inventory Manager lets you discover and visualize your SQL Server environment. Learn more > >

IDERA Website	Products	Purchase	Support	Community	About Us	Resources	Legal

Installation instructions

This procedure guides you through a typical install of IDERA SQL Inventory Manager integrated with the IDERA Dashboard.

- The IDERA SQL Inventory Manager setup provides users the following components: IDERA SQL Inventory Manager and IDERA Dashboard.
- For step by step instructions, see Installing SQL Inventory Manager.
- For upgrading your installation to the latest version, see Upgrade to this release.
- To register IDERA SQL Inventory Manager with a remote IDERA Dashboard, see Installing using a remote Dashboard.

IDERA SQL Inventory Manager lets you discover and visualize your SQL Server environment. Learn more > >

IDERA Website	Products	Purchase	Support	Community	About Us	Resources	Legal

Installing SQL Inventory Manager

This section guides you through the installation of IDERA SQL Inventory Manager. You can install IDERA SQL Inventory Manager on any computer that meets or exceeds the product requirements.

Before you install IDERA SQL Inventory Manager, be sure to have:

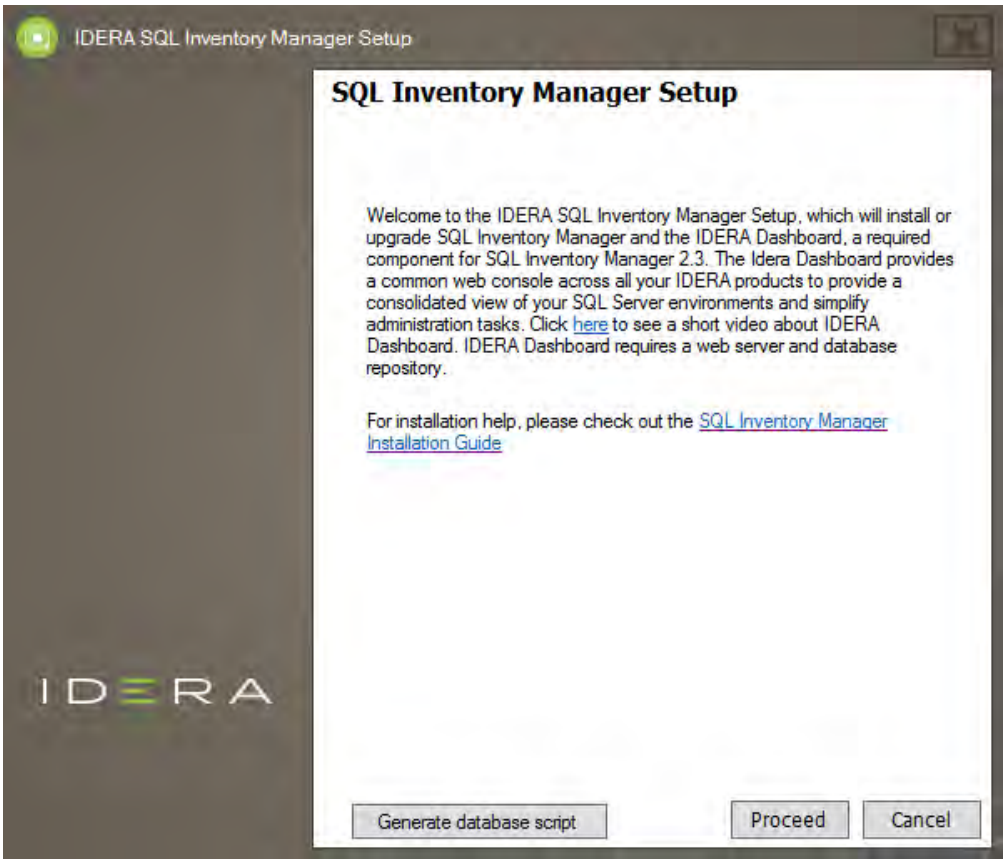
- A local administrator account on the machine you are installing the product.
- A host machine for SQL Inventory Manager services.
- A host SQL Server for the product databases.
- A service account with permissions to read/write and create databases and update their schemas.

> You can also grant IDERA SQL Inventory Manager Product Administrator permissions in the IDERA Dashboard. For more information, see Managing users in the IDERA Dashboard.

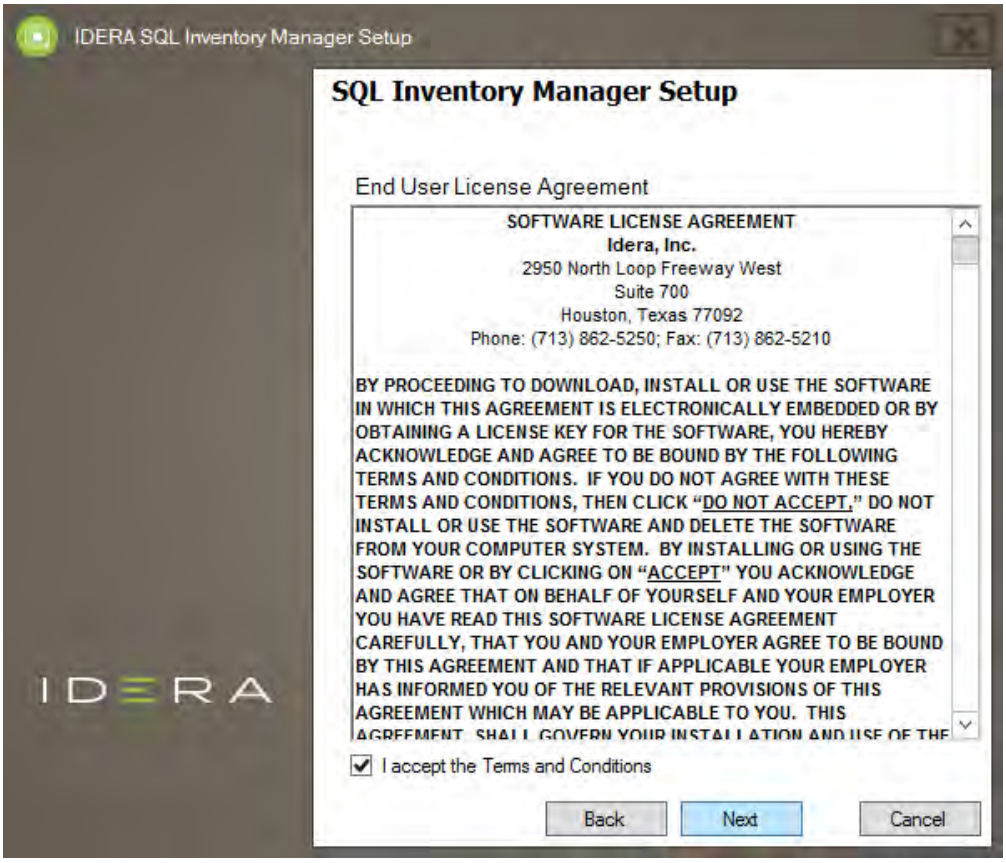
Installing IDERA SQL Inventory Manager

Before you install IDERA SQL Inventory Manager, be sure to meet the requirements mentioned before. Open the installer and follow these steps:

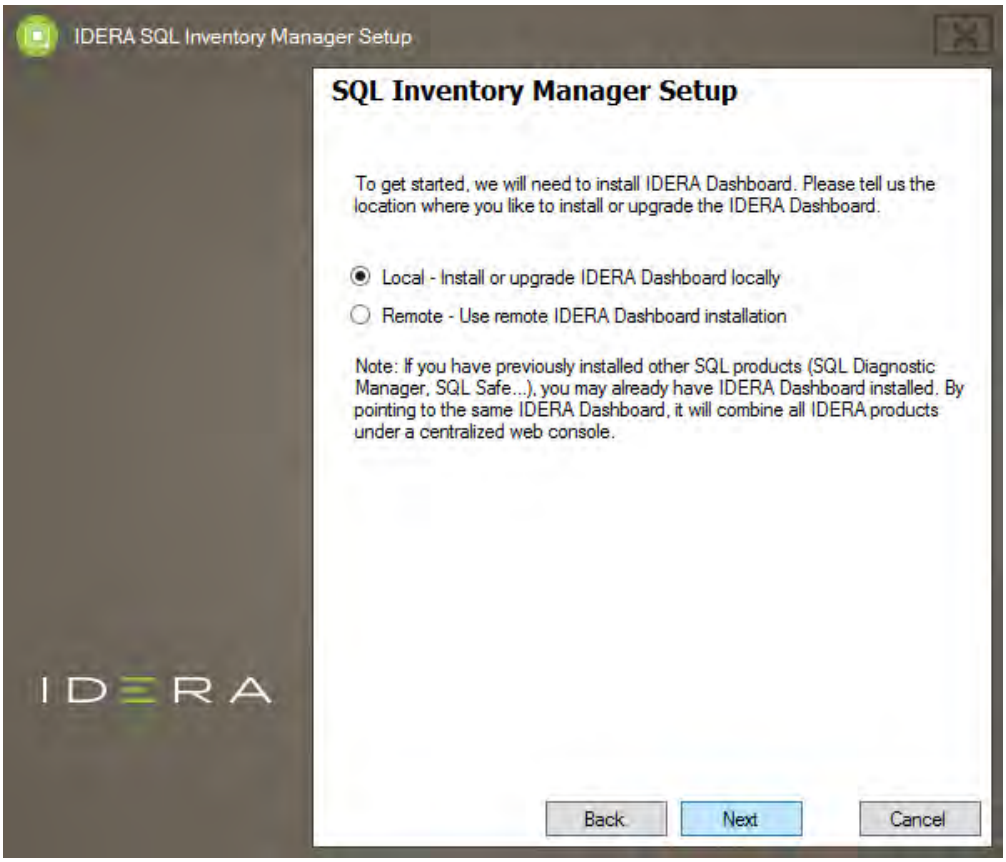
1. On the **IDERA SQL Inventory Manager Setup** window, click **Proceed** to continue with the installation.



2. Read the License Agreement. If you agree, click **I accept the Terms and Conditions** and then click **Next**.

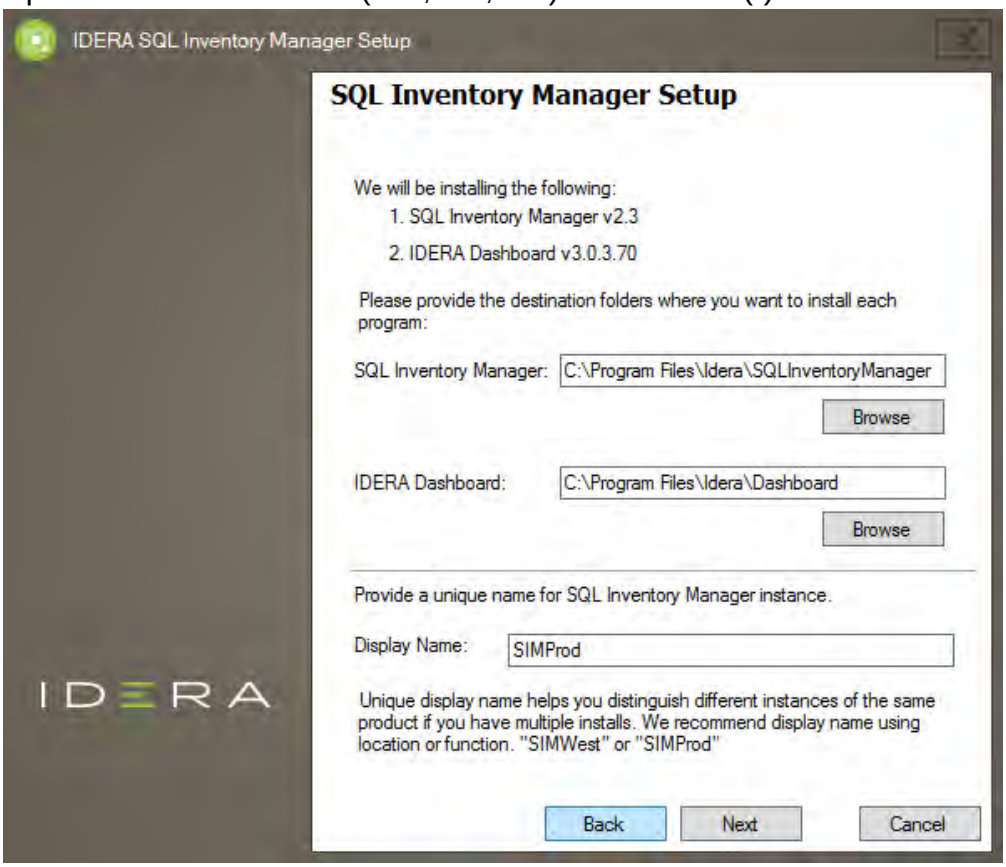


3. If you want to install IDERA Dashboard locally, choose **local** and click **Next**. If you want to register SQL Inventory Manager with an existing remote IDERA Dashboard installation, choose **Remote** and follow **these steps** .



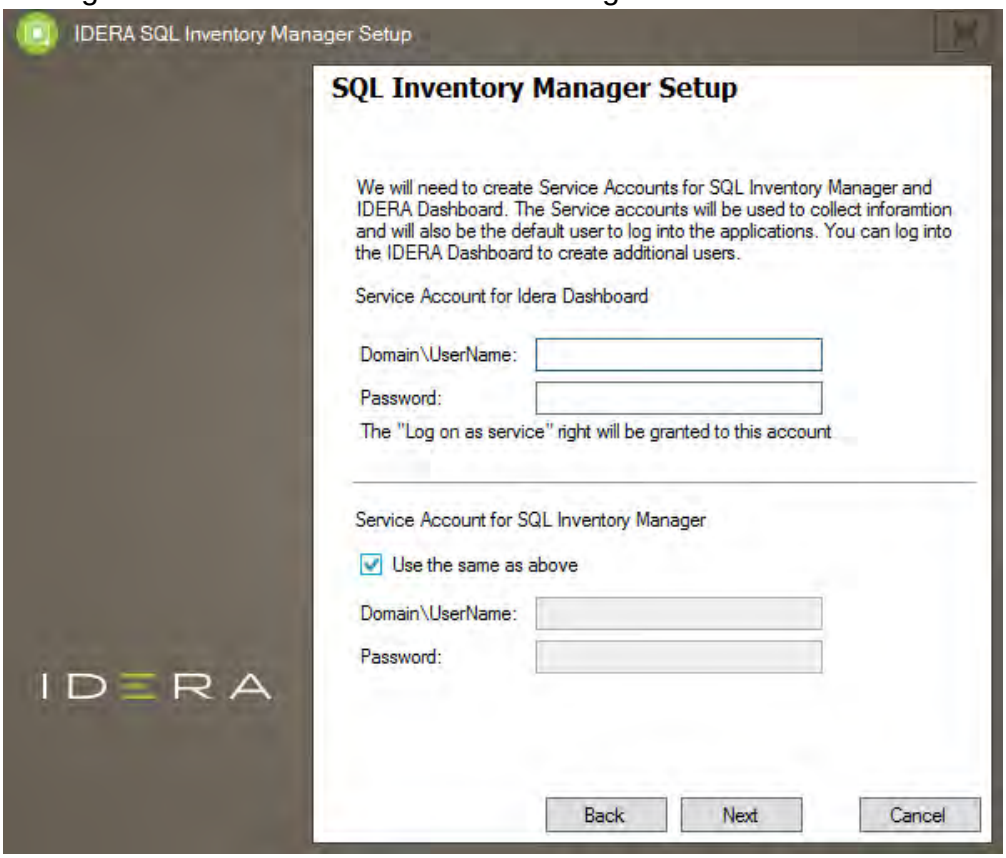
4. If you want to change SQL Inventory Manager and IDERA Dashboard default path, click **Browse**.
   On the Display Name box, type a unique name for this instance of IDERA SQL Inventory Manager and click **Next**. A Display Name allows you to identify each instance of IDERA SQL Inventory Manager or other IDERA products when you have more than one installation of the same product. IDERA recommends that you use a name based on a

location or function, such as **SIM-Prod** or **SIM-West**. Note that this field accepts only alphanumeric characters (A-Z, a-z, 0-9) and dashes (-).



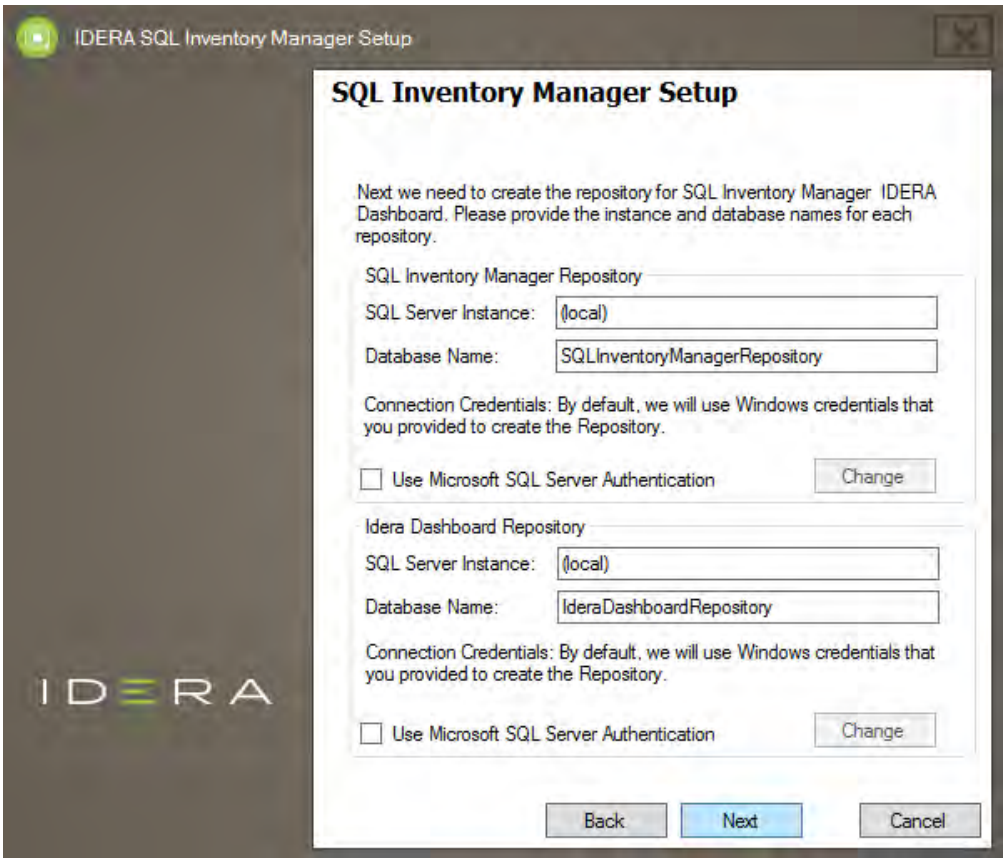
5. Specify a **User Name** and a **Password** for the Service Account for IDERA Dashboard. Use the format *<Domain Name>\<User Name>*. IDERA SQL Inventory Manager uses this account to connect, discover, and gather configuration information from SQL Servers. The installer grants the "Log on as a Service" right to the account that you specify. Click **Next** to continue.
   If you want to use different credentials for the Service Account for SQL Inventory Manager,

clear the **Use the same as above** box, and type your credentials. IDERA SQL Inventory Manager uses this account when accessing the IDERA Dashboard to share data.



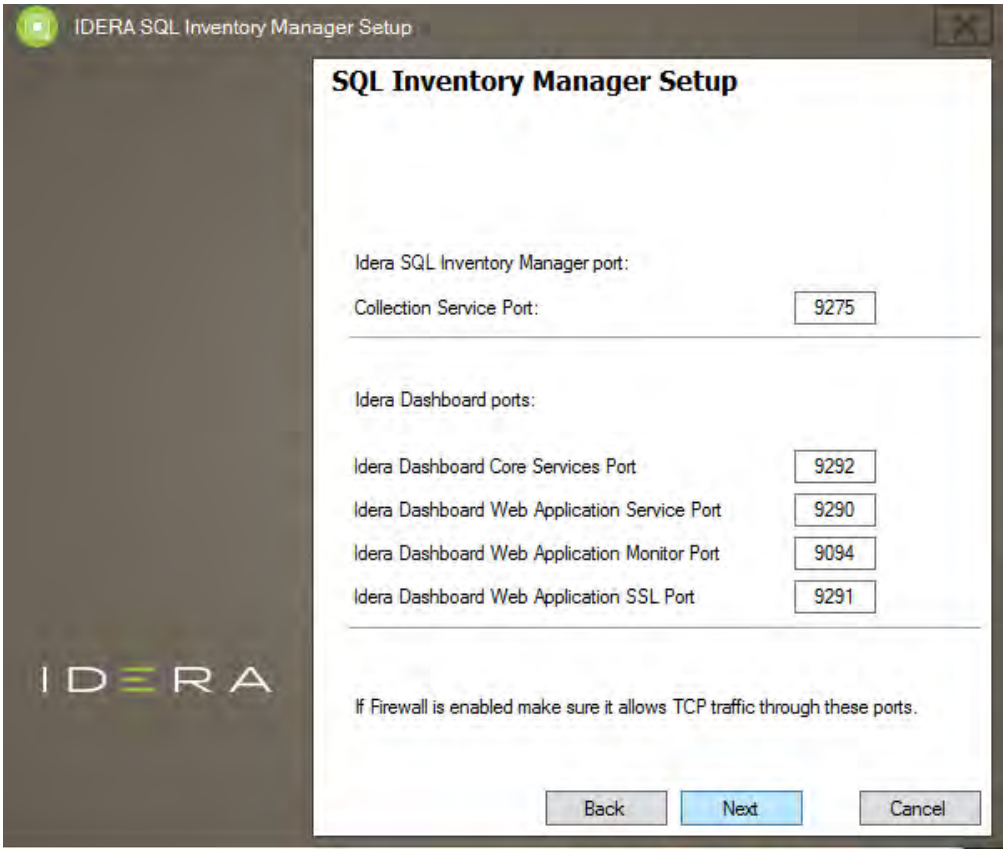
6. Specify a SQL Server Instance host and database names for the creation of the SQL Inventory Manager Repository database and the IDERA Dashboard Repository database respectively.
   By default, the setup program uses your Windows logon account to create and access the Repository databases. If you want to use Microsoft SQL Server connection credentials,

select **Use Microsoft SQL Server Authentication** and click **Change** to enter the SQL Server credentials. Click **Next**.

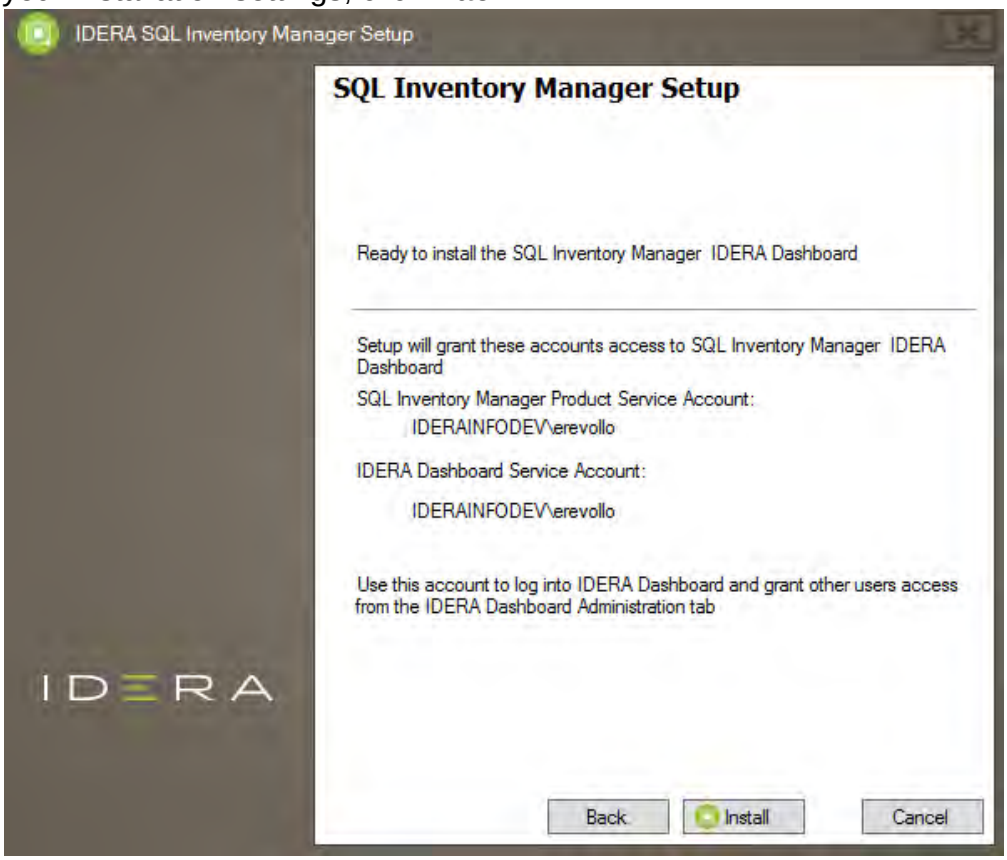


7. Determine which ports you want to use for the Inventory Manager Collection Service and for the IDERA Dashboard services. You must verify that the Firewall allows TCP (Transmission Control Protocol) traffic through your specified ports.
   By default, IDERA SQL Inventory Manager uses ports 9275 and 9291 for the Collection and Web Application services respectively. Click **Next**.

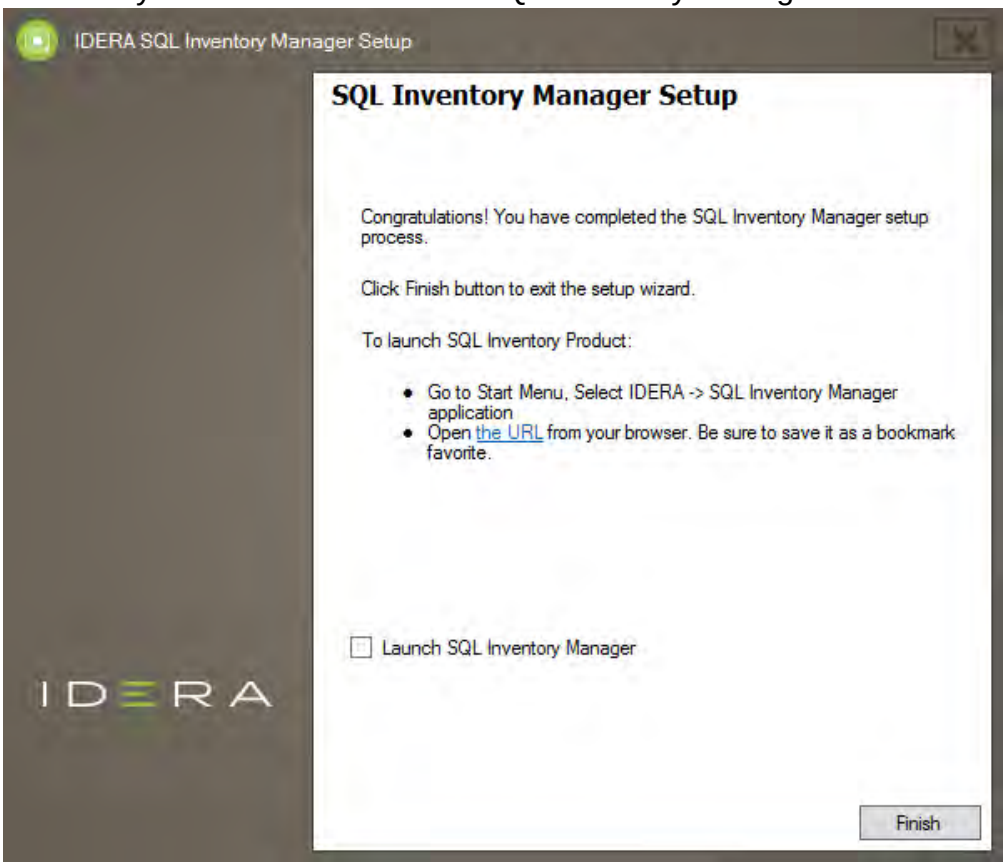
> Port values should be between 1 and 65535.
>
> Keep in mind, that browsers may block some specific ports. To check a list of all blocked ports on Mozilla Firefox, see Mozilla Port Blocking.



8. Click **Install** if you are ready to start the installation. If you want to review or change any of your installation settings, click **Back**.



9. After the installation is complete, you can select **Launch IDERA SQL Inventory Manager** t o launch SQL Inventory Manager immediately after the installation window closes. Alternatively, you can access IDERA SQL Inventory Manager web application through the following link: **http://<ServerName>:9291** where ServerName is the name of the machine on which you installed the IDERA SQL Inventory Manager services.



When IDERA SQL Inventory Manager launches on your browser, you should use your Windows user account with your respective password to log in to the product. Please take into account that IDERA SQL Inventory Manager does not store passwords.

IDERA SQL Inventory Manager lets you discover and visualize your SQL Server environment. Learn more > >

IDERA Website	Products	Purchase	Support	Community	About Us	Resources	Legal

Installing the IDERA Dashboard

This section guides you through the installation of the IDERA Dashboard, a common technology framework for IDERA products.

Before you install the IDERA Dashboard, be sure to have:

- A local administrator account on the machine you are installing the product.
- Microsoft .NET 4.0 Framework or later installed.

> The IDERA Dashboard Web Application service comes with SSL already set up. By default, SSL works with a self-signed certificate. This certificate can be used for encryption only and does not prove the identity of the server.
>
> That default certificate is not signed by any well-known Certification Authority (CA), and is intended only for use in testing purposes. When a user attempts to open the SSL version of the IDERA Dashboard Web interface, a warning appears in the browser window. For more information about running IDERA Dashboard over SSL, see Run IDERA Dashboard over SSL (HTTPS).

Start your installation

You can install the IDERA Dashboard on any computer that meets or exceeds the product requirements.

To start installing the IDERA Dashboard:

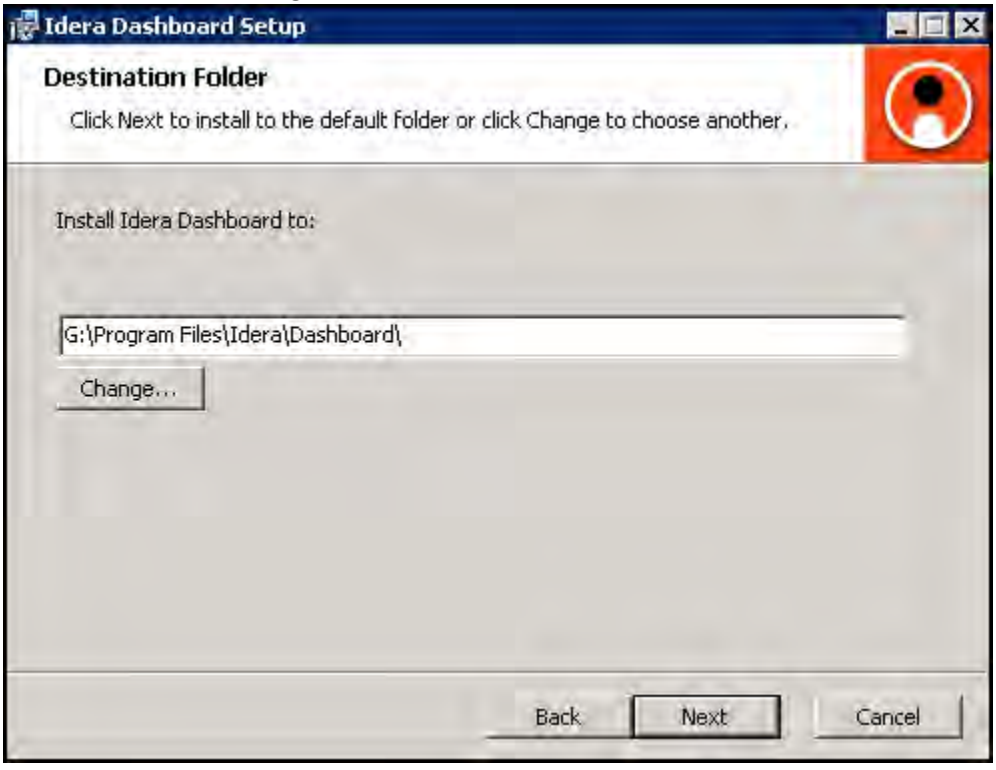
1. Run `IderaDashboard` in the root of the installation kit.
2. On the **Welcome to the IDERA Dashboard Setup Wizard**, click **Next** to continue with installation.

3. Review the license agreement. To accept this license agreement, click **I accept the terms**

in the License Agreement, and then click **Next.**

Select an installation location

You can use the default install location or specify a different path (**Change**). For your first install, we recommend using the default location. Click **Next** to continue with the installation.

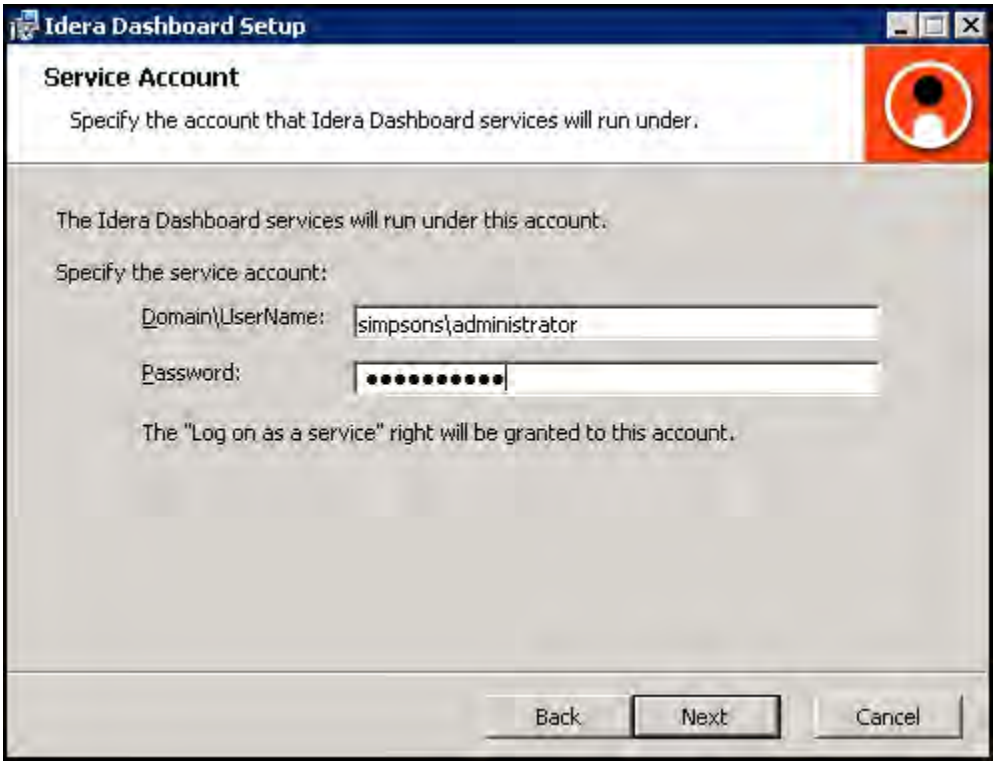


Select a Windows user account to use for the service account

The IDERA Dashboard uses this account to connect, discover, and gather configuration information from SQL Servers in your Business environment. The installer grants the "Log on as a Service" right to the account that you specify.

To specify a service account:

1. On the Service Account window, type appropriate credentials in the provided fields under which the services run.
2. Click **Next**.

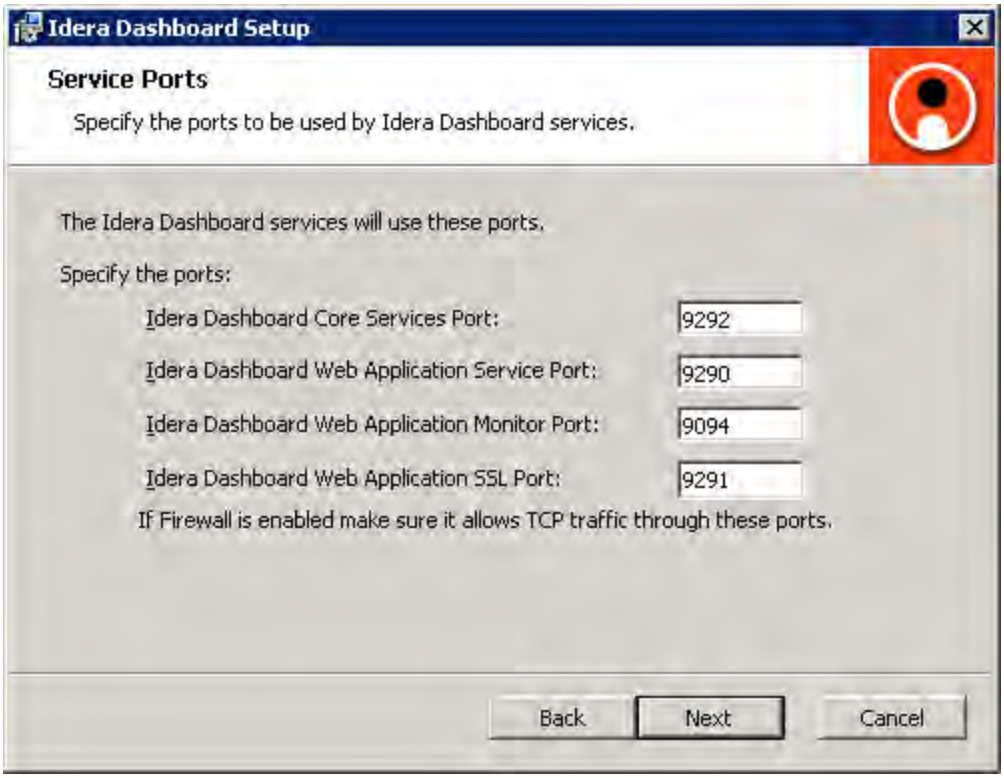


Select service ports to use for the IDERA Dashboard

The IDERA Dashboard uses ports **9290**, **9291**, and **9292** for the web application and dashboard services respectively. However, you can specify different service ports.

To specify a service port:

1. On the Service Ports window, specify the ports you want the web application and dashboard services to use.



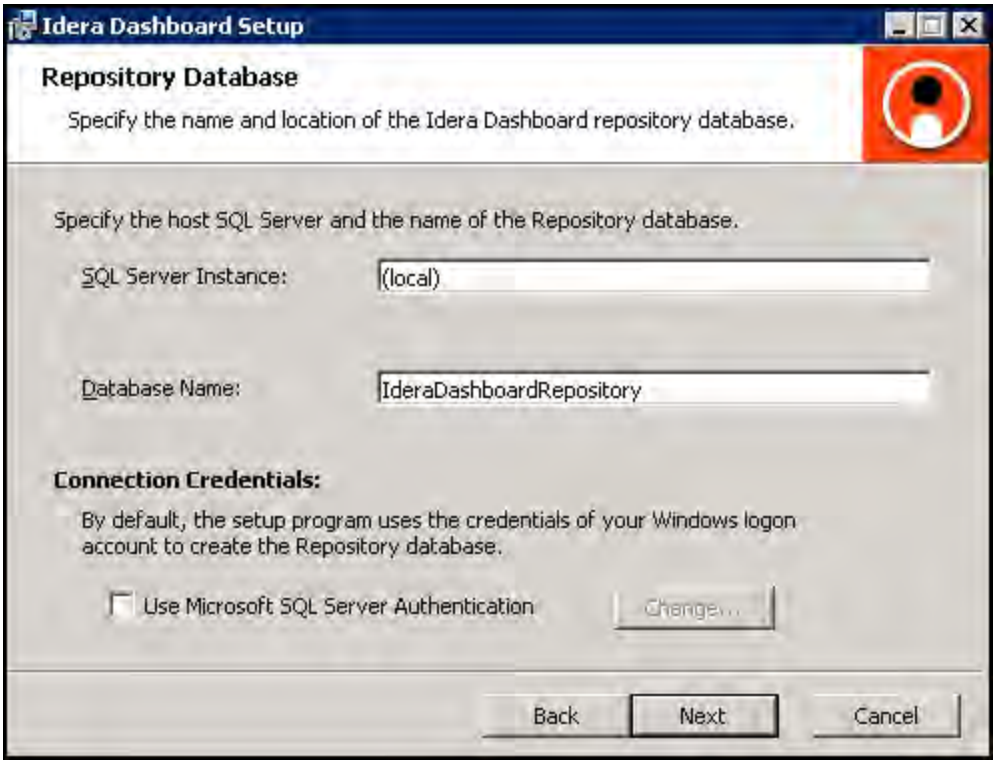
2. Verify that the Firewall allows TCP (Transmission Control Protocol) traffic through your specified ports.
3. Click **Next.**

Select a SQL Server instance to use for the IDERA Dashboard Repository database

The IDERA Dashboard Repository database is where the collected data, alert information, and alert configuration settings are stored.

To specify the SQL Server instance to install the Repository database on:

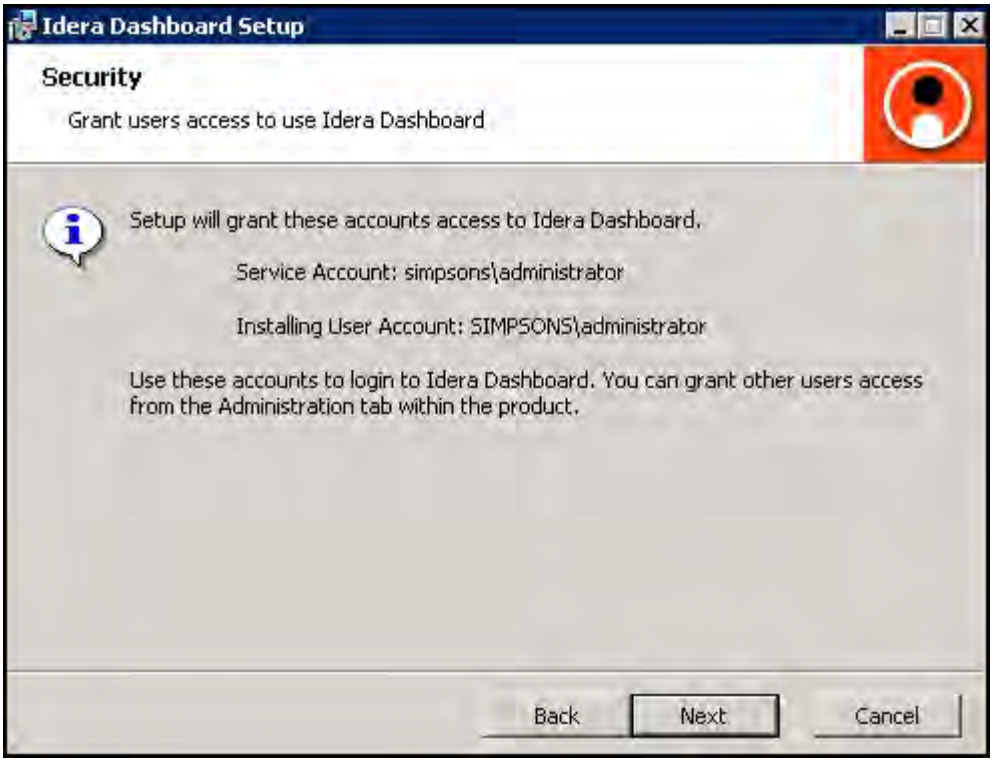
1. On the Repository Database screen, specify the host SQL Server instance you want to use for the IDERA Dashboard Repository database.
2. Type the name for the IDERA Dashboard Repository database.



3. ***If your SQL Server environment uses SQL Server Authentication*** , select the check box and click **Change** to enter SQL Server credentials. By default, the IDERA Dashboard uses your Windows credentials when connecting to the Repository database.
4. ***If you use Microsoft SQL Server Authentication*** , a new window displays where you can type the respective SQL Server login and password.
5. Click **Next**.

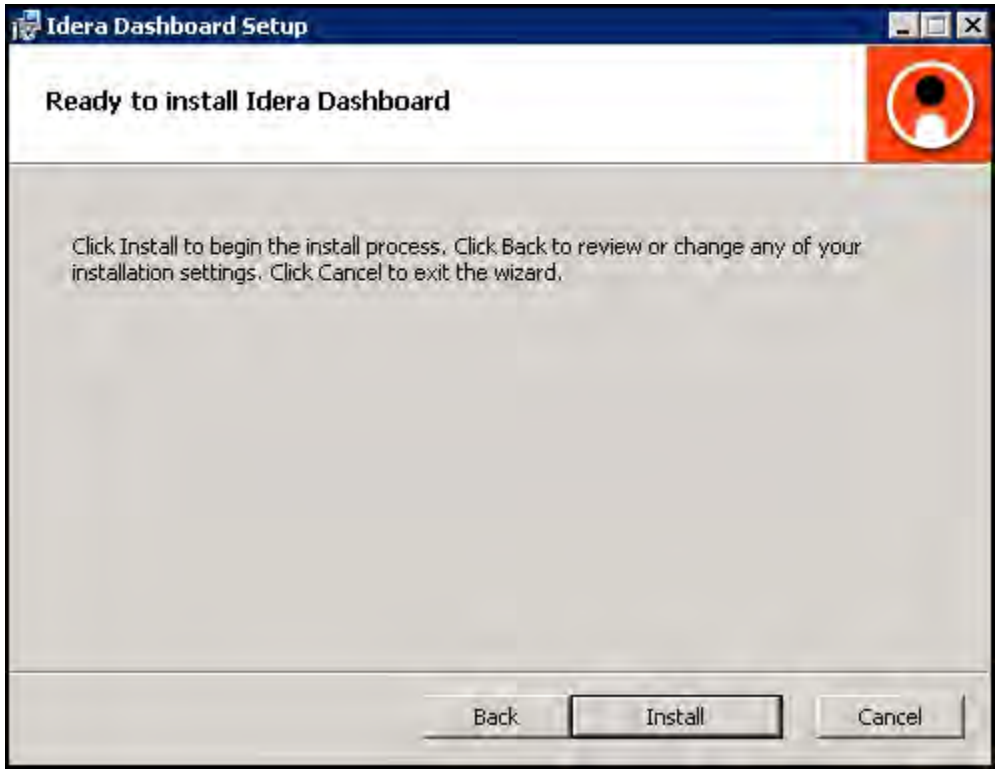
Grant access to the IDERA Dashboard

The user that installs the IDERA Dashboard has access to this application by default as a *Dashboard Administrator*. You can choose whether you want other users to have access to the IDERA Dashboard in the Administration view. To continue with the installation, click **Next**.



Complete the install

1. Click **Install** to indicate that you are ready to complete your installation with the configurations you specified. ***If you want to review or change any of your settings*** , click **Back**.



2. Click **Finish** to exit the IDERA Dashboard Setup Wizard.

3. Proceed with the SQL Inventory Manager Setup Wizard.

SQL Inventory Manager lets you discover and visualize your SQL Server environment. Learn more > >

IDERA Website	Products	Purchase	Support	Community	About Us	Resources	Legal

Installing using a remote Dashboard

This section guides you through the installation of IDERA SQL Inventory Manager using a remote Dashboard. You can install IDERA SQL Inventory Manager on any computer that meets or exceeds the product requirements.

Before you install IDERA SQL Inventory Manager, be sure to have:

- The path to a remote IDERA Dashboard installation. IDERA SQL Inventory Manager integrates with the IDERA Dashboard.
- A local administrator account on the machine you are installing the product.
- A host machine for SQL Inventory Manager services.
- A host SQL Server for the product databases.
- A service account with permissions to read/write and create databases and update their schemas.

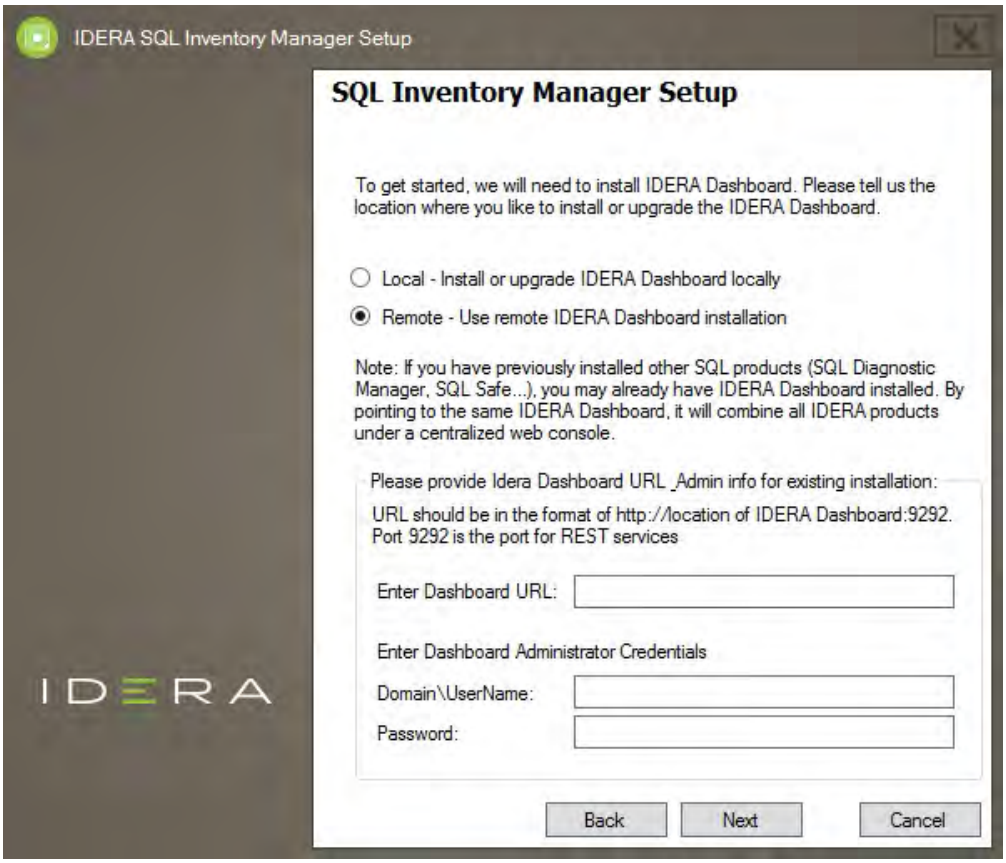
⚠ A remote installation only registers IDERA SQL Inventory Manager with a remote IDERA Dashboard, IDERA SQL Inventory Manager is installed in the local computer.

ⓘ You can also grant IDERA SQL Inventory Manager Product Administrator permissions in the IDERA Dashboard. For more information, see Managing users in the IDERA Dashboard.

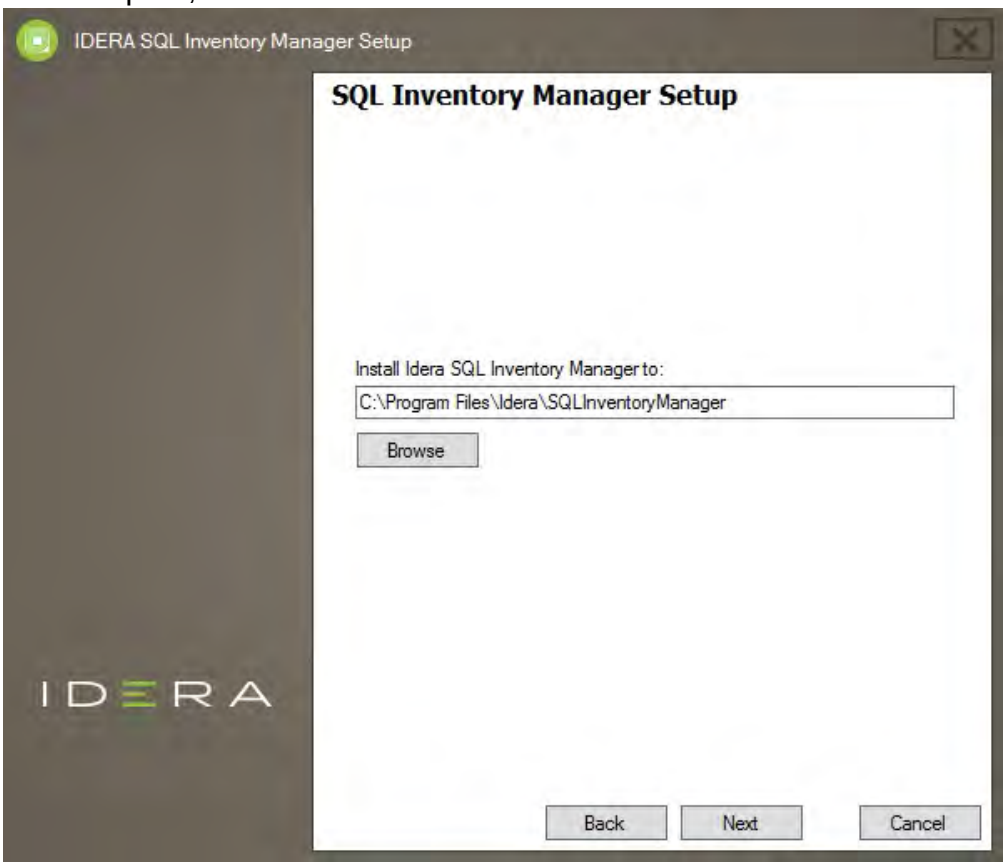
Installing IDERA SQL Inventory Manager with a remote IDERA Dashboard

Before you install IDERA SQL Inventory Manager, be sure to meet the requirements mentioned before. Open the installer and follow these steps:

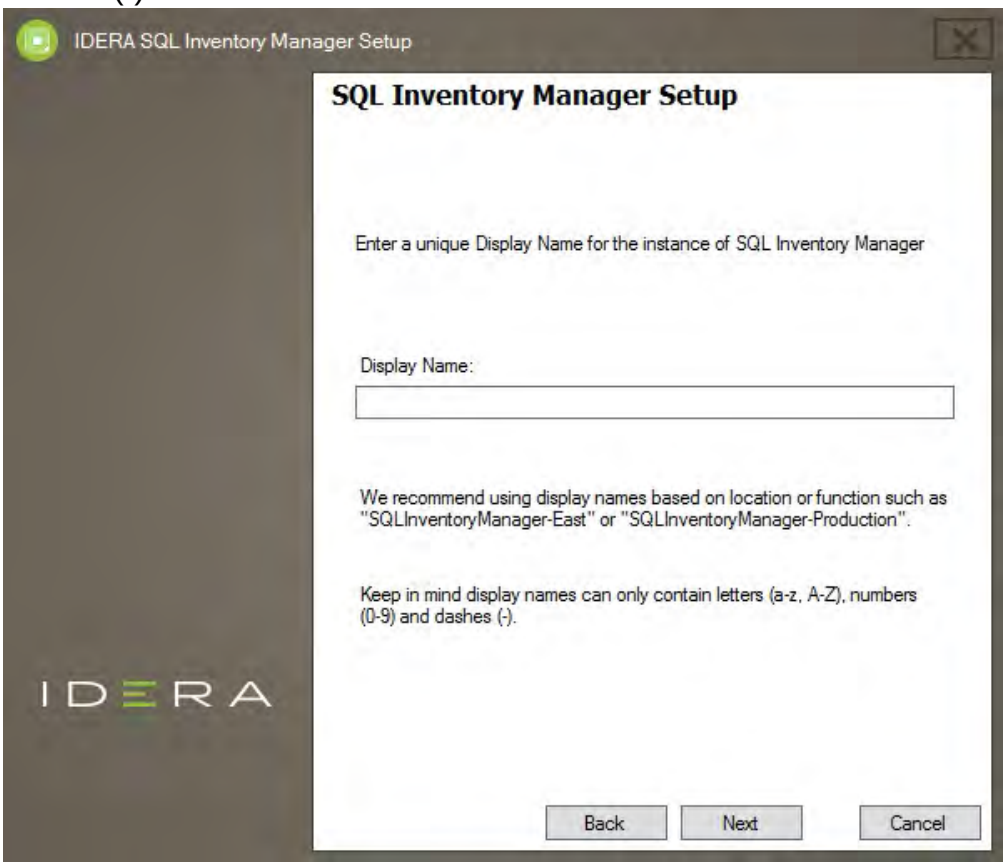
1. Open the IDERA SQL Inventory Manager setup, click **Proceed**.
2. Read the License Agreement. If you agree select **I accept the Terms and Conditions** and click **Next** to continue.
3. Select **Remote** and provide a Dashboard URL using the format **http://<location of IDERA Dashboard>:9292**. PORT 9292 is the port for REST services.
4. Enter the administrator credentials for accessing the remote IDERA Dashboard installation.
5. Click **Next**.



6. To install SQL Inventory Manager to the default path, click **Next**. If you want to use a different path, click **Browse**.

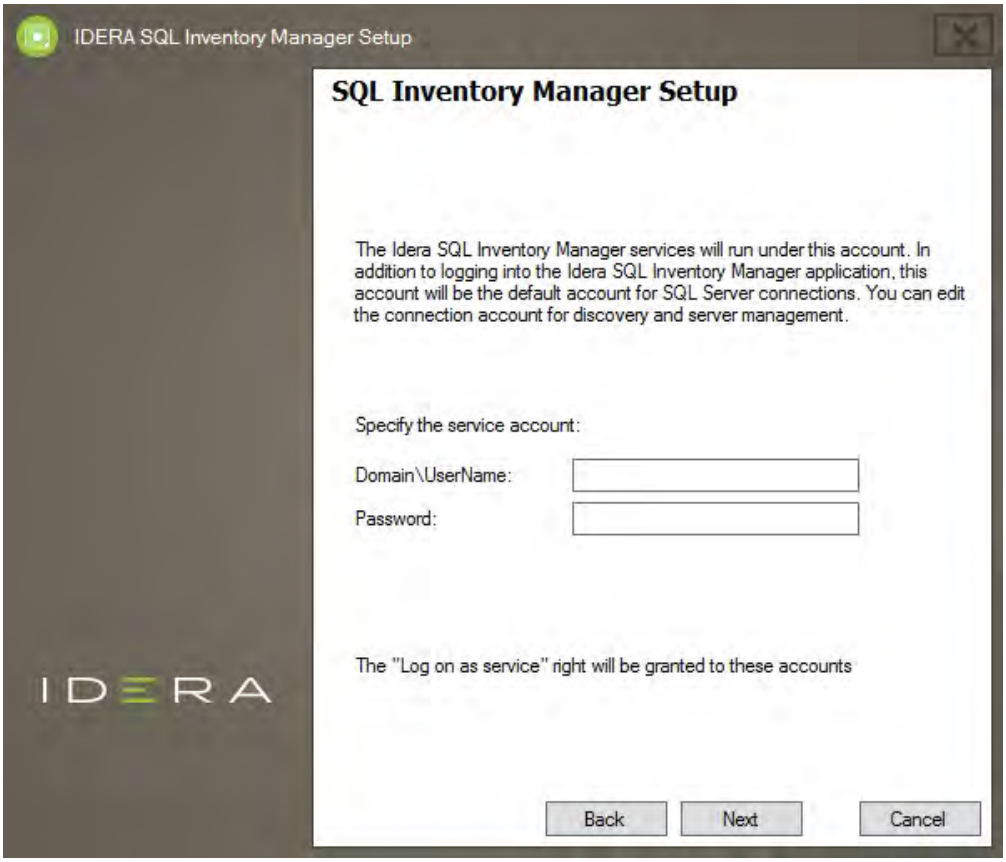


7. Type a unique name for this instance of IDERA SQL Inventory Manager and click **Next**.Thi s page allows you to identify each instance of IDERA SQL Inventory Manager or other IDERA products when you have more than one installation of the same product. IDERA recommends that you use a name based on a location or function, such as **SIM-Prod** or **SI M-West**. Note that this field accepts only alphanumeric characters (A-Z, a-z, 0-9) and dashes (-).



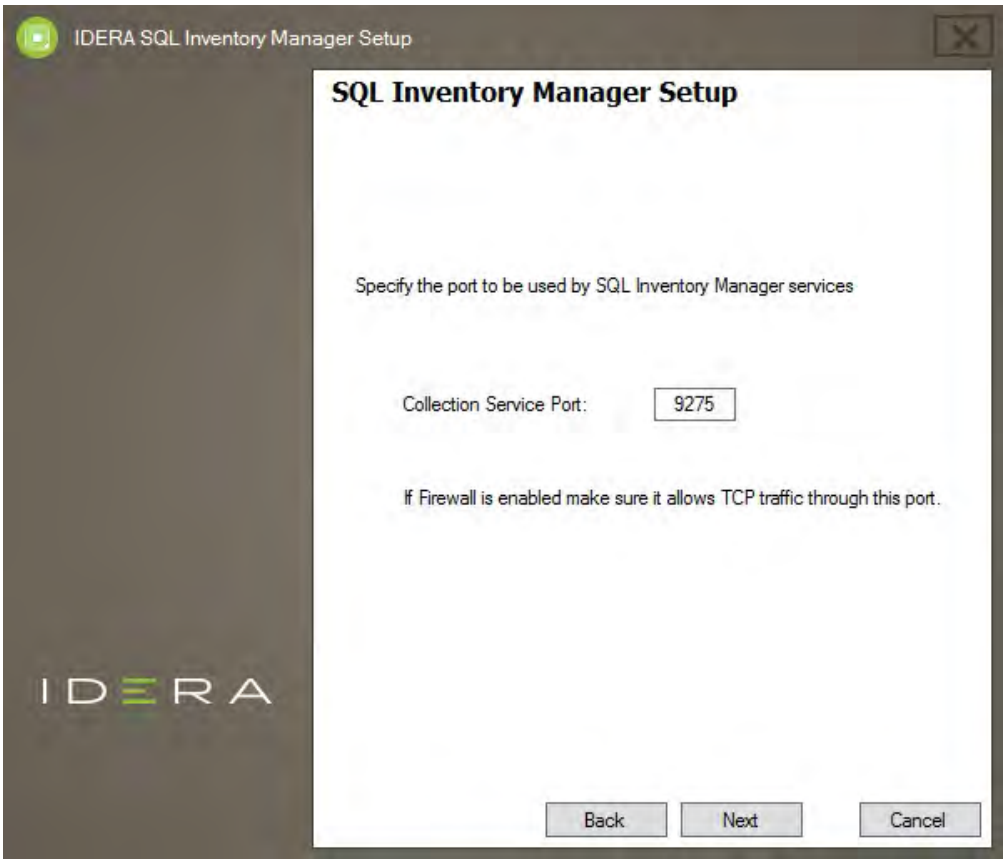
8. Specify the **User Name** and **Password** under which the IDERA SQL Inventory Manager services will run and click **Next**. Use the format *<Domain Name>\<User Name>* when

typing the User Name. IDERA SQL Inventory Manager uses this account for SQL Server connections.



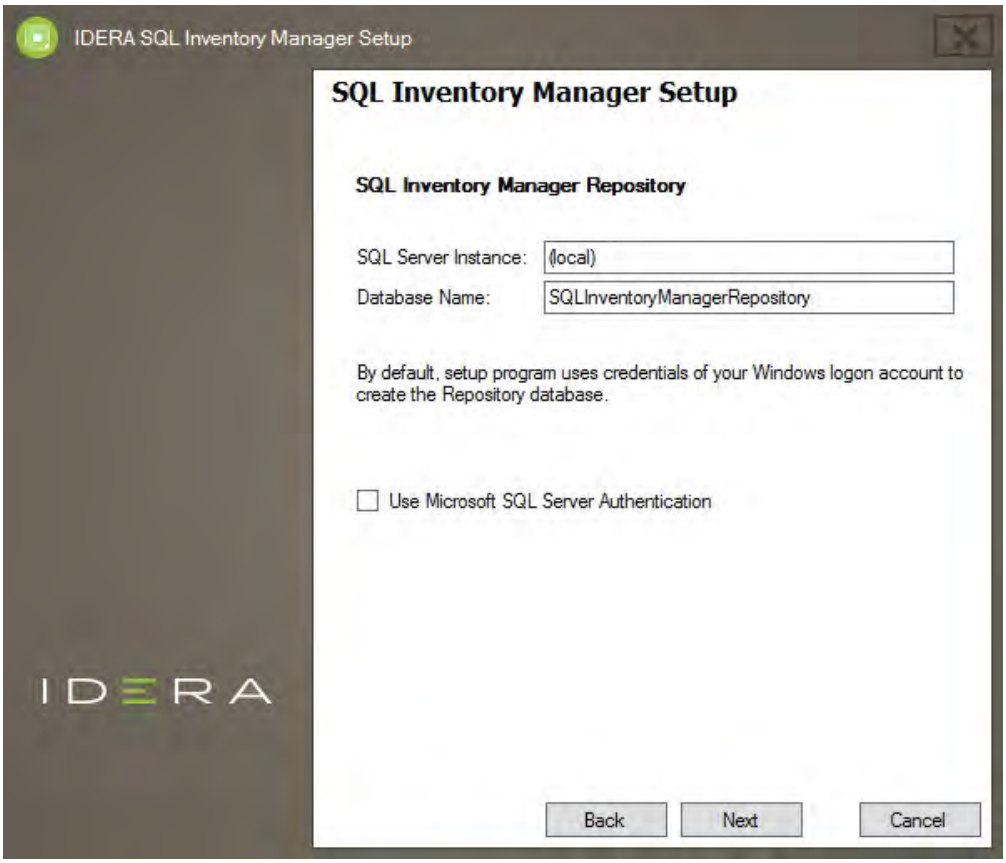
9. Specify which port you want to use for the Inventory Manager Collection Service. You must verify that the Firewall allows TCP (Transmission Control Protocol) traffic through your specified ports.
   By default, IDERA SQL Inventory Manager uses port 9275 for the Collection service. Click **Next** to continue.

> Port values should be between 1 and 65535.
>
> Keep in mind, that browsers may block some specific ports. To check a list of all blocked ports on Mozilla Firefox, see Mozilla Port Blocking.

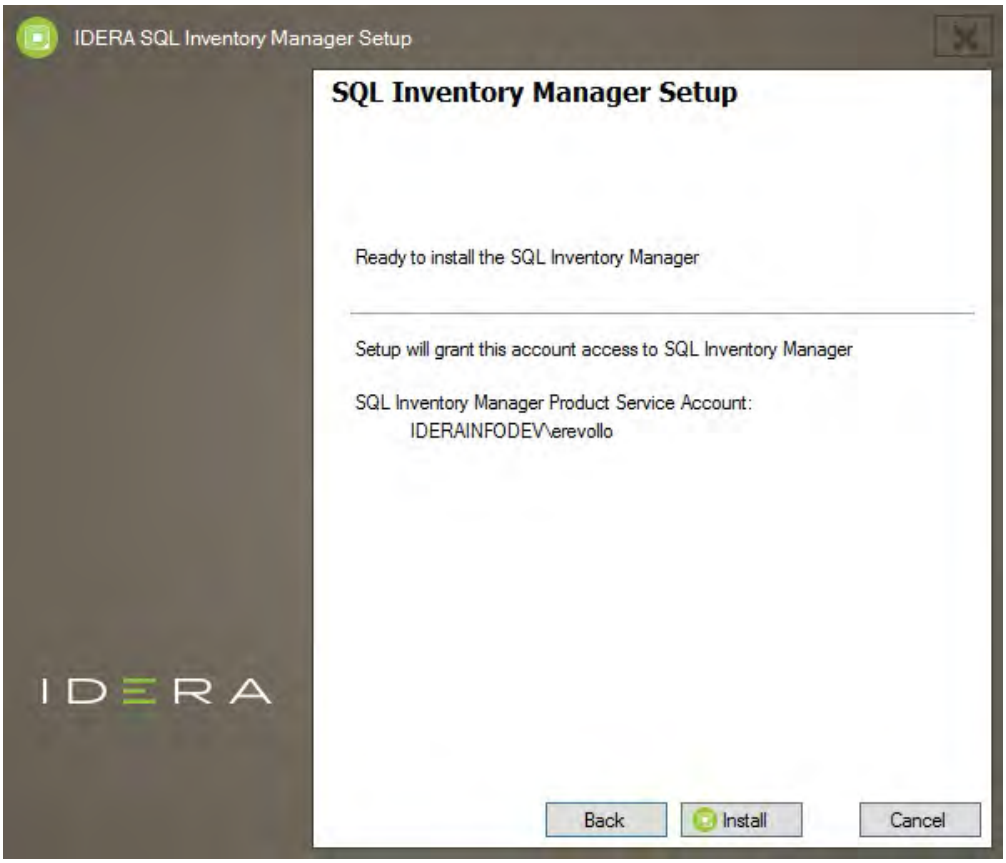


10. Specify a SQL Server Instance host and a database name for creating the SQL Inventory Manager Repository database.
    By default, the setup program uses your Windows logon account to create and access the Repository database. If you want to use Microsoft SQL Server connection credentials,

select **Use Microsoft SQL Server Authentication** and enter your SQL Server credentials. Click **Next** to continue.

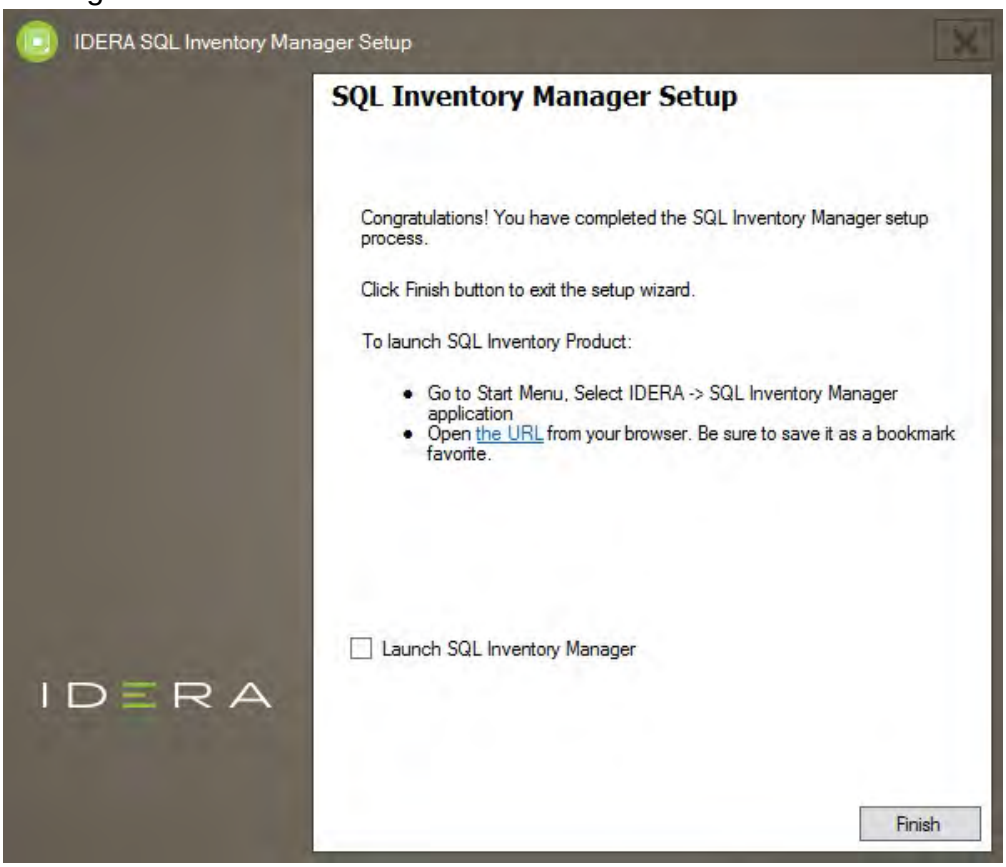


11. Click **Install** if you are ready to start the installation. If you want to review or change any of your installation settings, click **Back**.



12. After the installation is complete, you can select **Launch IDERA SQL Inventory Manager** t o launch SQL Inventory Manager immediately after the installation window closes. Alternatively, you can access IDERA SQL Inventory Manager web application through the

following link: **http://<ServerName>:9291** where ServerName is the name of the machine hosting the remote IDERA Dashboard.



When IDERA SQL Inventory Manager launches on your browser, you should use your Windows user account with your respective password to log in to the product. Please take into account that IDERA SQL Inventory Manager does not store passwords

IDERA SQL Inventory Manager lets you discover and visualize your SQL Server environment. Learn more > >

IDERA Website	Products	Purchase	Support	Community	About Us	Resources	Legal

Log in to the IDERA Dashboard

Once you have installed and configured your IDERA Dashboard and SQL Inventory Management deployments, you can log in to the web console by doing the following:

1. Open your selected Browser, make sure it is compatible with the IDERA Dashboard console requirements.
2. Type the IDERA Dashboard product URL: **http://<machinename>:<port>** where **<machinename>** is the name of your host or machine, and **<port>** is the port specified during installation. The default URL is **http://<localhost>:9290** or **http://<machinename>:9290**.
3. When the IDERA Dashboard web console launches on your browser, use your Windows user account **<domain\user>** with the respective password to log into the product.

> The IDERA Dashboard Web Application service comes with SSL already set up. For more information on running the IDERA Dashboard over SSL, see Run IDERA Dashboard over SSL (HTTPS).

SQL Inventory Manager lets you discover and visualize your SQL Server environment. Learn more > >

IDERA Website	Products	Purchase	Support	Community	About Us	Resources	Legal

What login and password should you use to log in to SQL Inventory Manager?

The IDERA Dashboard Web Application service comes with SSL already set up. By default, SSL works with a self-signed certificate. **This certificate is available for encryption only and does not prove the identity of the server**.

That default certificate is not signed by any well-known Certification Authority (CA), and is intended for use only in testing purposes. When a user attempts to open the SSL version of the IDERA Dashboard web console, the browser displays a warning message. For more information about running IDERA Dashboard over SSL, see Run IDERA Dashboard over SSL (HTTPS).

When IDERA SQL Inventory Manager launches on your browser, log in using your Windows user account with the respective password. Type the Windows user account in the following format: <*domain\username*>.

Although IDERA SQL Inventory Manager uses Windows authentication when users log in, IDERA SQL Inventory Manager does not store passwords.

Session timeout

IDERA SQL Inventory Manager sessions do time out after a period of rest. Note that:

- Sessions do not expire if you remain on the application.
- If you leave the application for more than 30 minutes, the session times out and you must log in to regain access.

SQL Inventory Manager lets you discover and visualize your SQL Server environment. Learn more > >

IDERA Website	Products	Purchase	Support	Community	About Us	Resources	Legal

What options do you have when you first install SQL Inventory Manager?

When you first install the product and log into the product for the first time, IDERA SQL Inventory Manager displays a welcome screen that guides you through some initial steps that help you to:

- Enter an email for receiving notification alerts
- Choose if you want to have automatic registration enabled
- Select the first place from where you will select the instances you want to register

Welcome

On the Welcome section click **Next** to start with the Alerts section.

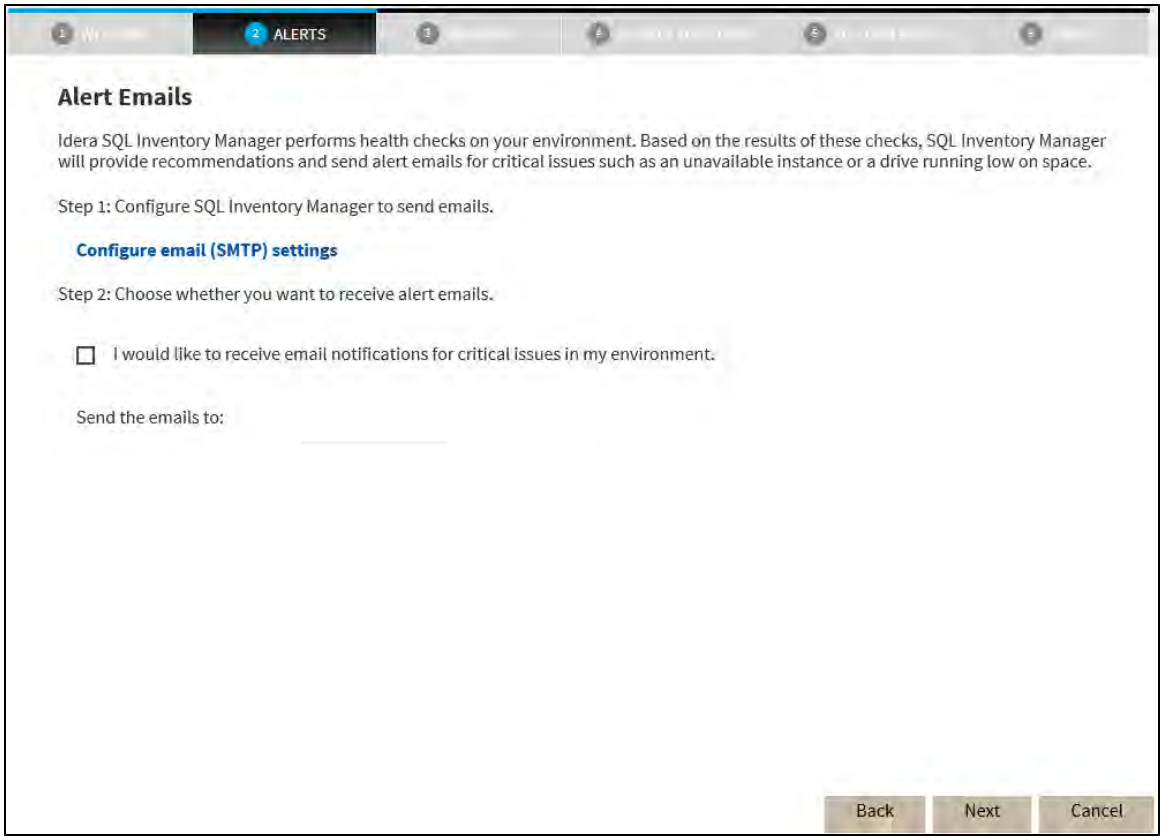
Alerts

The **Alerts** section allows you to configure your email settings and enter an email address for subscribing to alerts. When you subscribe to alerts, IDERA SQL Inventory Manager sends you alert emails for critical issues on your environment. These alerts are a result of a set of health checks performed by IDERA SQL Inventory Manager on your SQL Server instances.

If you want to configure alert emails, this section requires that you follow two steps:

Step 1 lets you configure your email (SMTP) settings. You must go through this step first if you want to receive alerts. For more information about configuring your email settings, refer to Configure email (SMTP) settings.

Step 2 lets you decide if you want to receive alert notifications and specify the email address where you would like to receive these alerts.



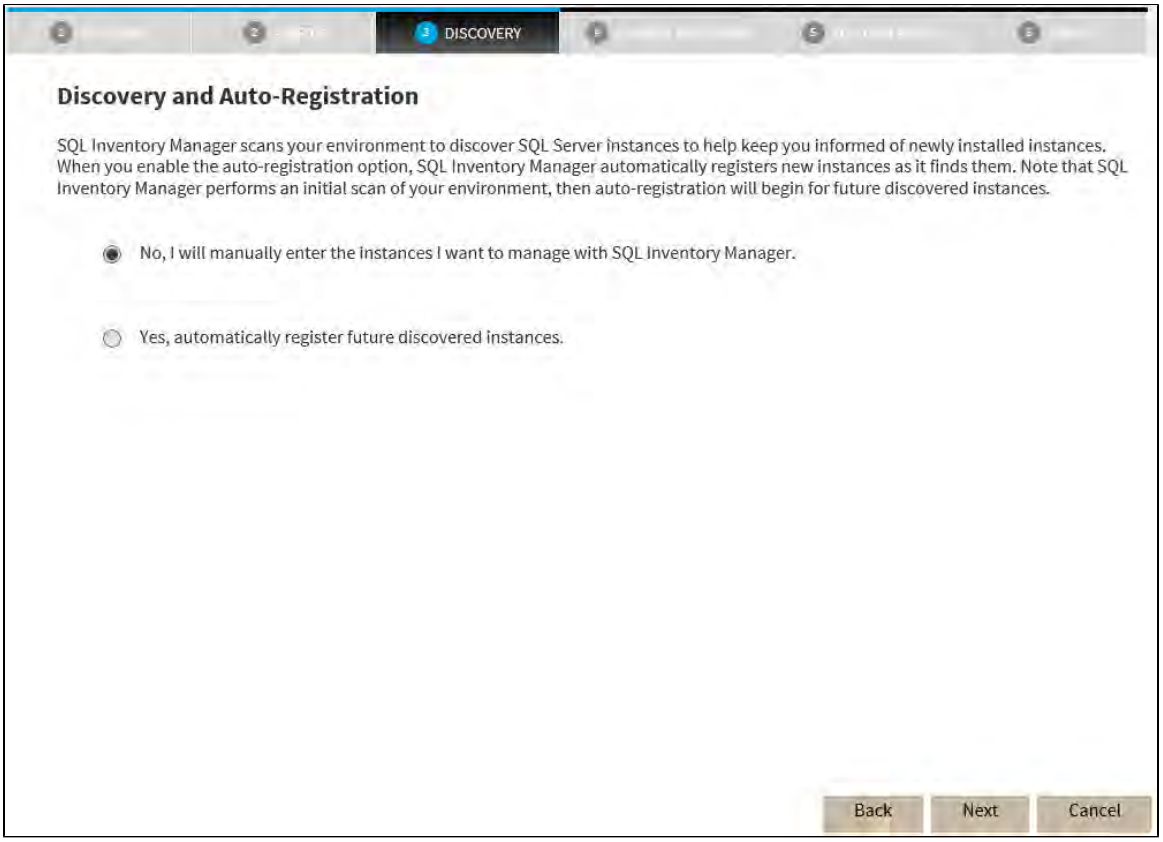
Discovery

On the **Discovery** section, you can choose if you want to enable or disable automatic registration for your instances.

IDERA SQL Inventory Manager continuously scans your environment to discover SQL Server instances and keeps you informed of newly installed instances.

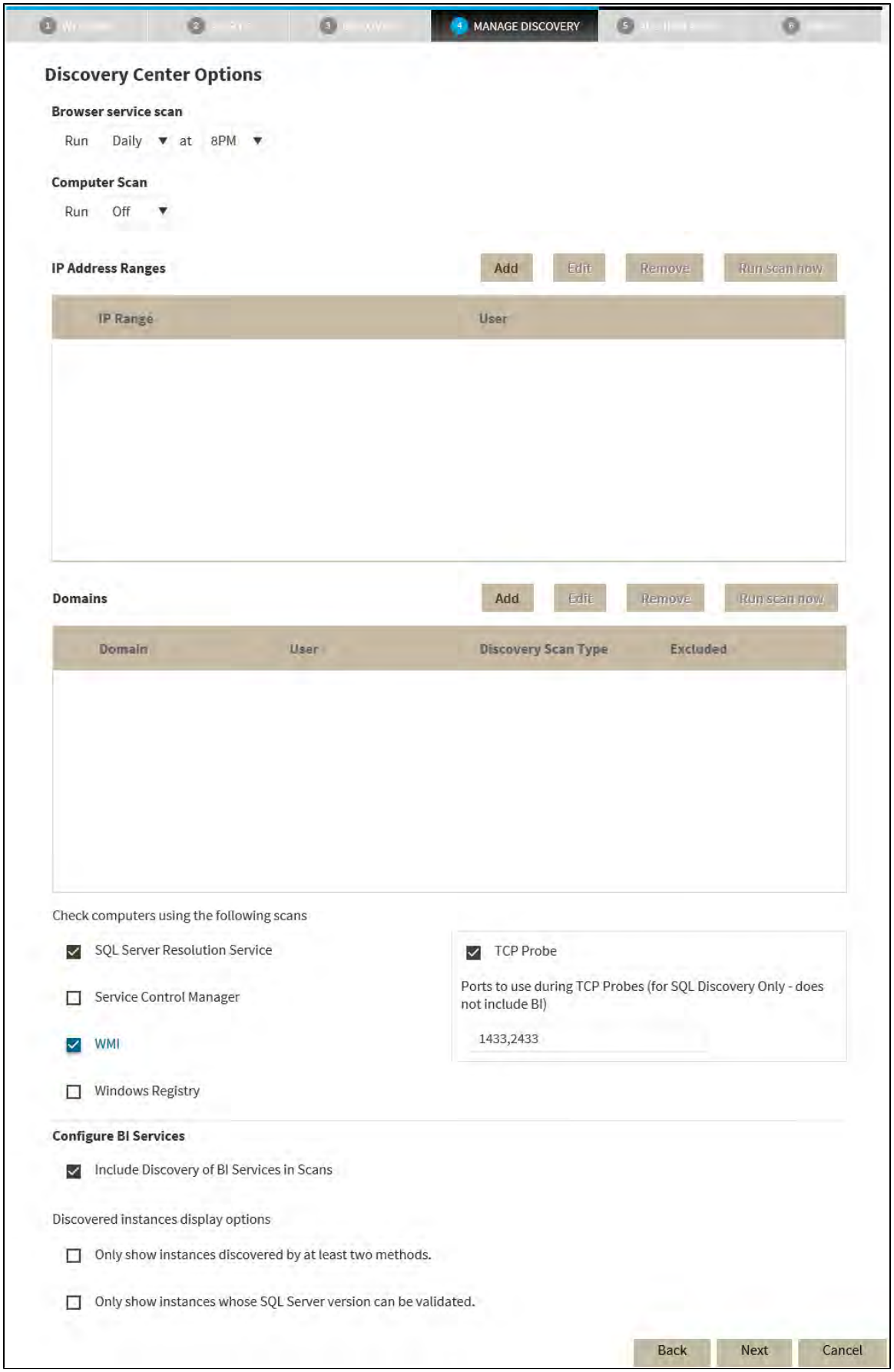
When you enable the auto-registration option, IDERA SQL Inventory Manager automatically registers instances as it finds them. Note that IDERA SQL Inventory Manager performs first an initial scan of your environment, then auto-registration will begin for future discovered instances.

You can later change these settings on the **Administration** tab and access the **Auto registration options** for specifying which SQL Server versions you want to exclude from auto registration. For more information about making changes to auto registration, see Auto registration options.



Manage Discovery

The next section, **Manage Discovery**, allows you to configure options for discovering instances. You can specify those computers where you want IDERA SQL Inventory Manager to discover SQL Server instances and choose which methods you want to use to search in each computer. To find more information about these settings, go to How to Manage Discovery Options.

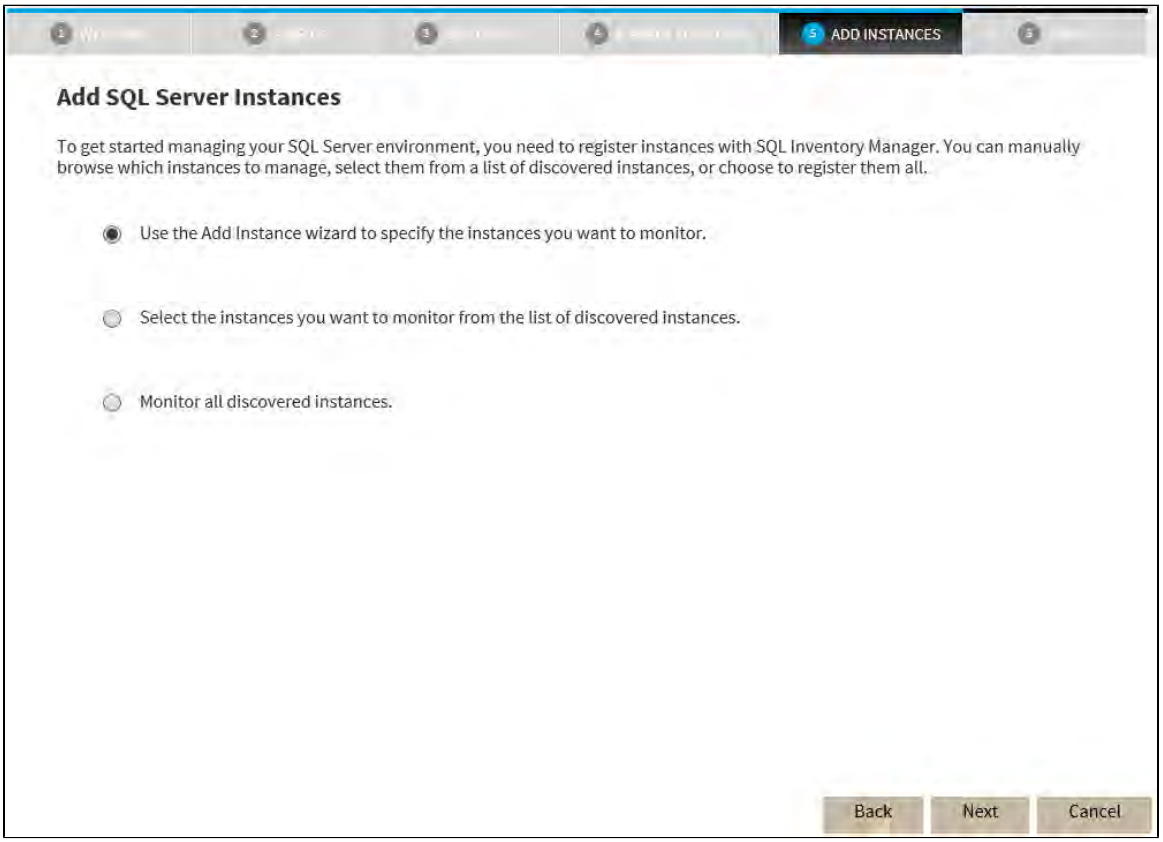

MANAGE DISCOVERY
Discovery Center Options
Browser service scan
Run Daily at 8PM
Computer Scan
Run Off
IP Address Ranges
Add
Edit
Remove
Run scan now
IP Range
User
Domains
Add
Edit
Remove
Run scan now
Domain
User
Discovery Scan Type
Excluded
Check computers using the following scans
SQL Server Resolution Service
Service Control Manager
WMI
Windows Registry
TCP Probe
Ports to use during TCP Probes (for SQL Discovery Only - does not include BI)
1433,2433
Configure BI Services
Include Discovery of BI Services in Scans
Discovered instances display options
Only show instances discovered by at least two methods.
Only show instances whose SQL Server version can be validated.
Back
Next
Cancel

Add Instances

The next section, **Add Instances**, allows you to determine how you would like to initially choose the instances you want to monitor. You need to register SQL Server instances in order to monitor them with IDERA SQL Inventory Manager.

This section lets you choose to:

- use the **Add Instance wizard**, which takes you to a wizard where you can manually pick those instances you want to monitor, specify which connection credentials IDERA SQL Inventory Manager will use to connect to them, add owner, location, comments, and tags. For more information about the Add Instance wizard, see Add SQL Server instances.
- select from a list of discovered instances. This option takes you directly to the **Discovered** section on the **Instances** view. From this section, you can pick which instances you wish to monitor and which ones you wish to ignore. For more information about selecting instances from the Instances view, see Discovered instances.
- monitor all discovered instances. This option lets you easily register all discovered instances.



Finish

Finally, the last section provides you with a summary of other key features available on IDERA SQL Inventory Manager such as:

- **Tags**. You can use tags to organize or group your instances for better management. Tags also help you filter views and explore your instances.
- **Health Check Recommendations**. IDERA SQL Inventory Manager performs a set of health checks on you environment to alert you from critical issues. These health checks

also ensure that basic configuration and disaster recovery recommendations are followed. You can access knowledge base articles in each health check recommendation to get more information.

- **Invite other users**. You can grant other users access to IDERA SQL Inventory Manager or enter their email addresses to receive alert notifications.

You can change any of these initial settings by clicking **Back**. When you complete this process, click **FINISH.**

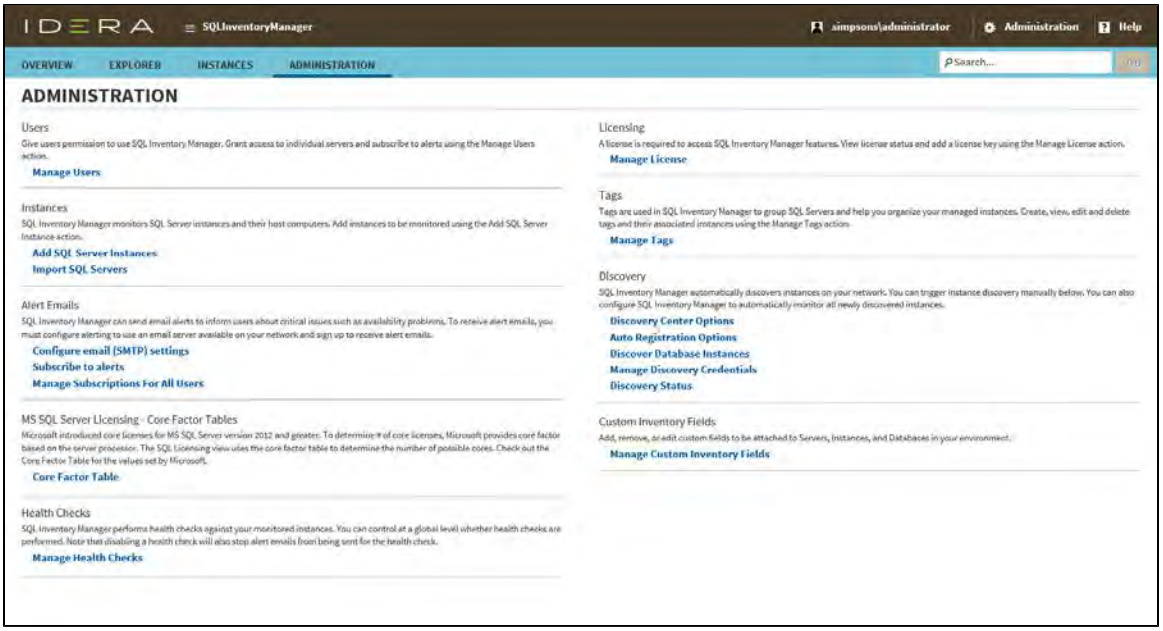
Click **CANCEL** at any point to skip these initial settings.

IDERA SQL Inventory Manager lets you discover and visualize your SQL Server environment. Learn more > >

IDERA Website	Products	Purchase	Support	Community	About Us	Resources	Legal

Administering SQL Inventory Manager

The **Administration** tab gives you easy access to manage IDERA SQL Inventory Manager options such as users, licenses, instances, tags, alert emails, discovery, and health checks.



For more information about each option and what configuration settings are available for you, go to each respective section.

- How to manage users
- How to add SQL Server instances
- Import SQL Servers
- How to configure alert emails
- How to manage SQL Server licensing
- How to manage health checks
- How to manage licenses
- How to manage tags
- How to manage instance discovery
- How to manage custom inventory fields

SQL Inventory Manager lets you discover and visualize your SQL Server environment. Learn more > >

IDERA Website	Products	Purchase	Support	Community	About Us	Resources	Legal

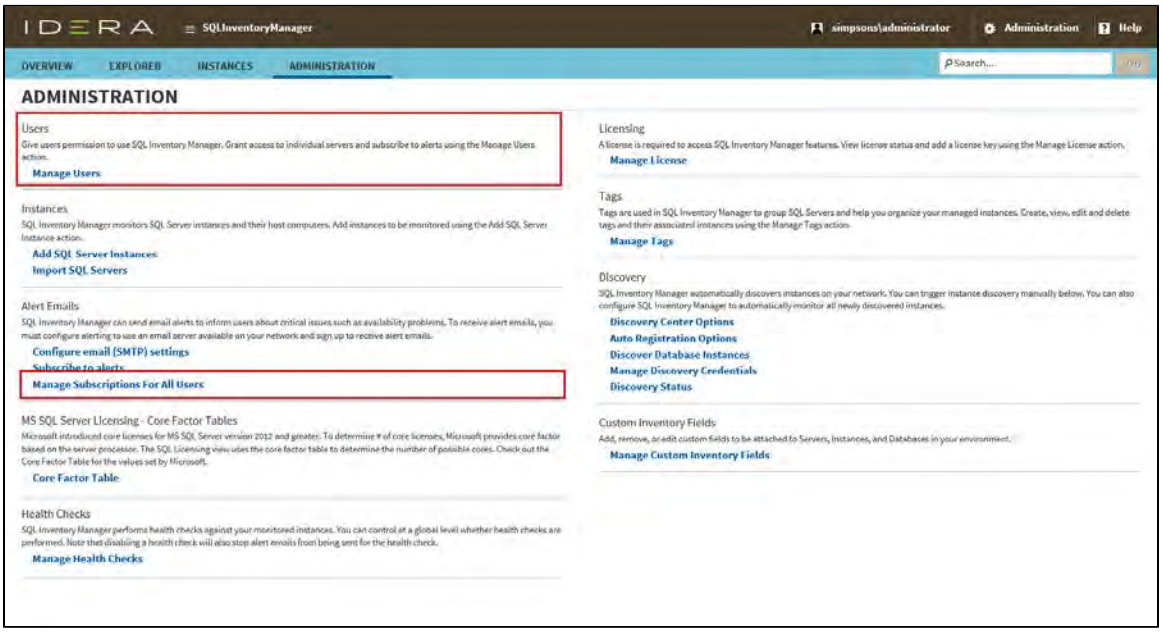
How to manage users

In order for users to access IDERA SQL Inventory Manager, you need to grant them access. Additionally, if they want to receive alert emails, you have to enable this option for each user and type the email addresses where they will receive these notifications.

To **add** or **delete** user accounts, go to the Administration view of the IDERA Dashboard, and then click **Manage Users**. For more information about adding a new user account, see Managing users in the IDERA Dashboard.

To edit user details (name, subscription, or email address), go to the following options on the **Administration** tab:

- **Users** > **Manage Users**
- **Alert Emails** > **Manage Subscriptions For All Users**



Below you can see the tabs and sections where you can manage your users and subscriptions.

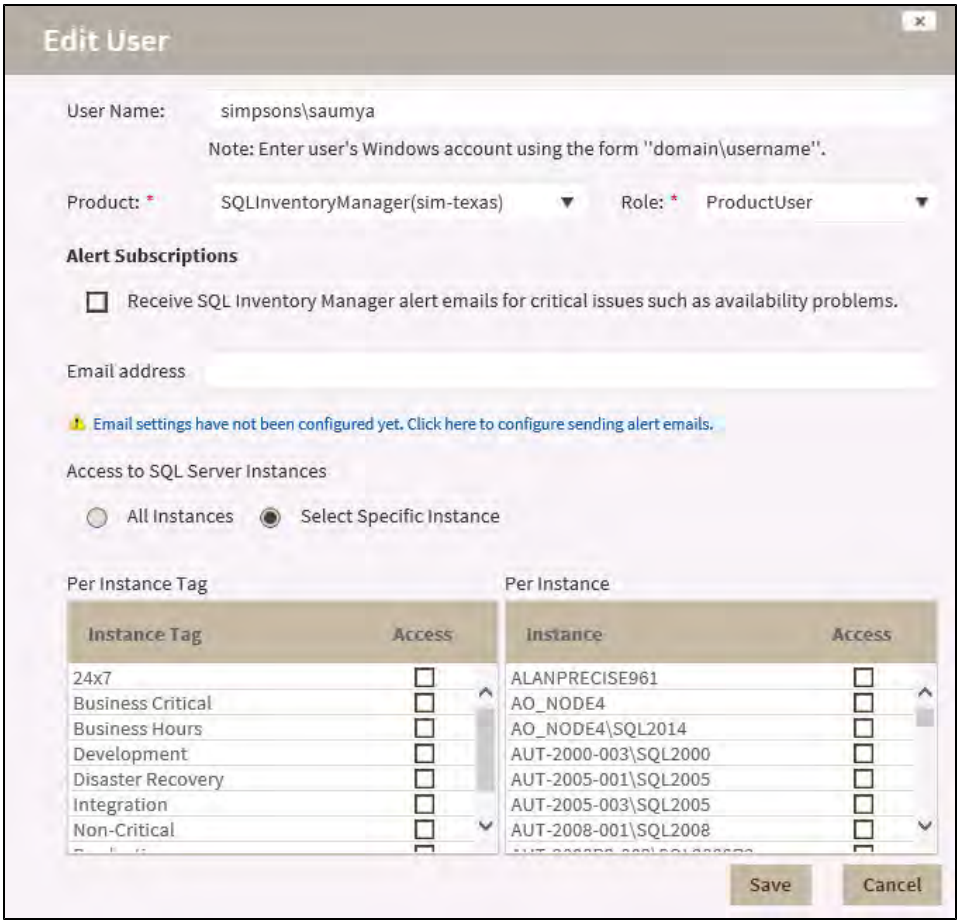
After you select the user(s) you want to manage, the Edit User window opens. On this window, you can see a list of all registered users with their respective email addresses and whether they are subscribed to alerts.

Edit User

This option allows you to edit the user name, change the role, modify the user's alert subscriptions, and change the email address to where they receive alerts.

To edit a user account:

1. Either click the user account name, or check the appropriate box for the user account you want to edit, and then click **Edit User**. IDERA SQL Inventory Manager displays the Edit User dialog.



2. Make the appropriate changes.
3. ***If you assign the User or Guest role*** , IDERA SQL Inventory Manager allows you to select which SQL Server instances you want this user to have access. Select **All Instances** to allow this account to access all instances including any new instances in your environment. Select **Select Specific Instance**, and IDERA SQL Inventory Manager displays lists of tags and instances available to assign to this user account. Select the items you want to include.
4. Click **SAVE**.

> ⚠ If you have not configured your email server settings yet, IDERA SQL Inventory Manager displays the message **Email settings have not been configured yet. Click here to configure sending alert emails.** Click this option to configure your settings. For more information, go to Configuring your email settings for alert notifications.

IDERA SQL Inventory Manager lets you discover and visualize your SQL Server environment. Learn more > >

IDERA Website	Products	Purchase	Support	Community	About Us	Resources	Legal

How to add SQL Server instances

In order to manage an instance, access its details, and add it to your monitored environment, you need to register it with IDERA SQL Inventory Manager. This section helps you register one or more instances with IDERA SQL Inventory Manager.

You can find the **Add SQL Server Instance** option on the following views:

- **Overview** tab - The **Add SQL Server Instance** option is located on the top right section of the instances table.
- **Instances** tab - The **Add SQL Server Instance** option is located on the action items bar of the Managed, Discovered, Ignored, and SQL Licensing sections respectively.
- **Administration** tab - The **Add SQL Server Instance** option is located in the instances section.

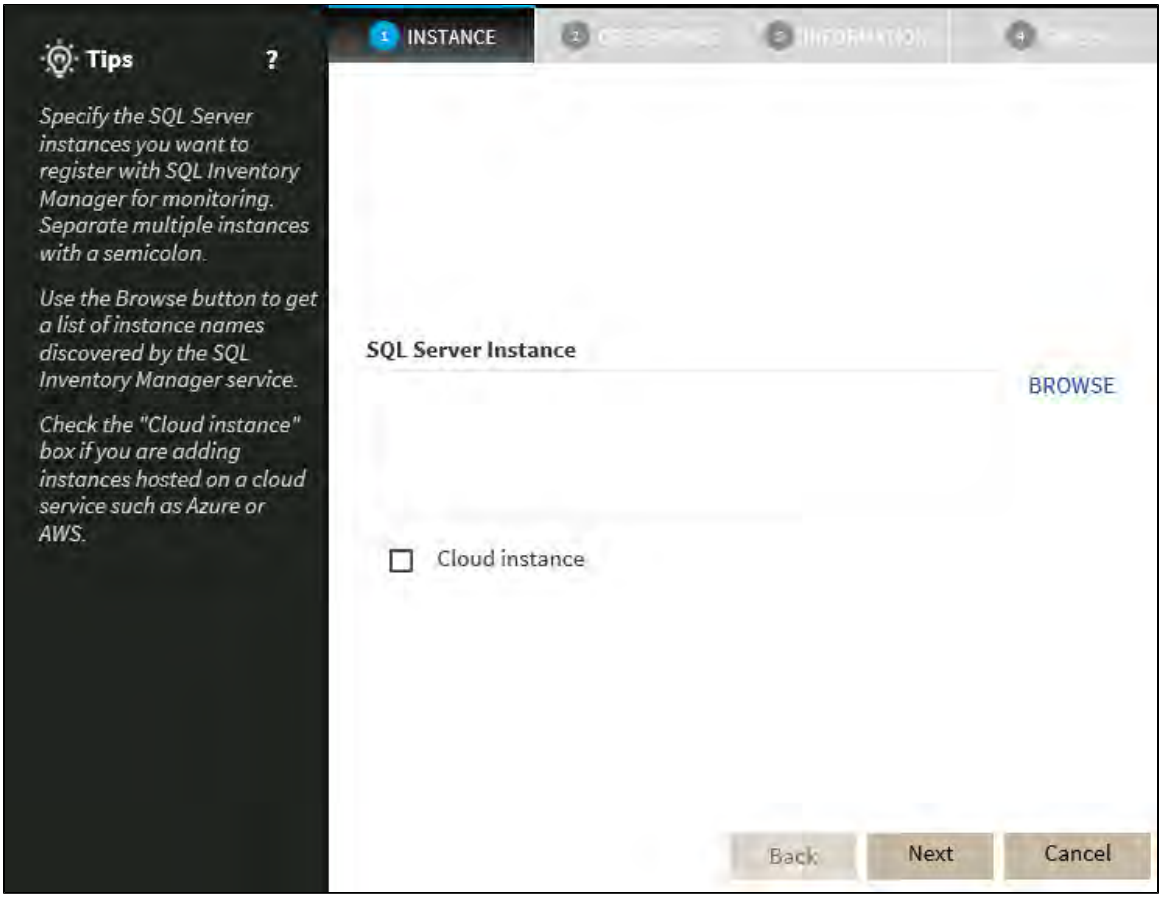
Below you can see the tabs and sections where you can find **Add SQL Server instances**. Click the image to view full size.

The Add Instance Wizard contains the following four sections:

1. Instance

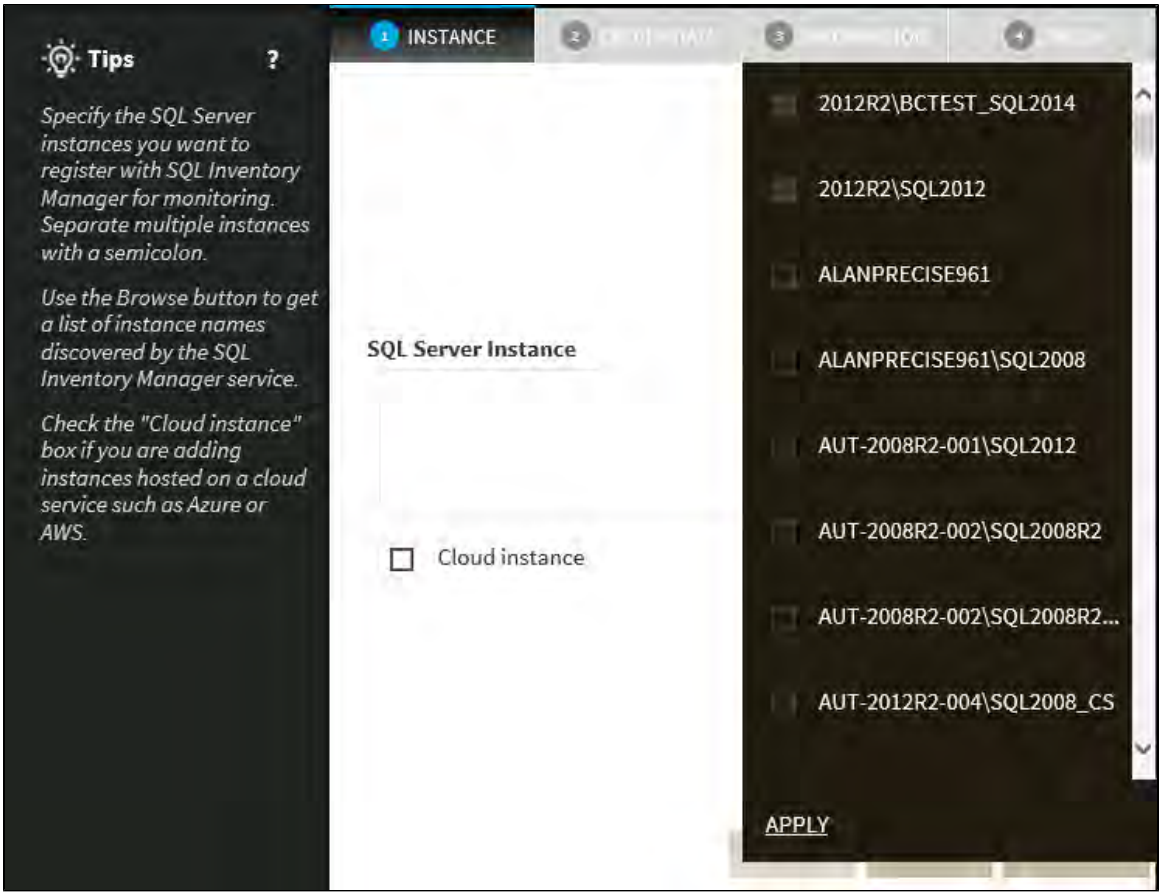
1. Type the name of instance or instances you want to register in the **SQL Server Instance** b ox. Use a semicolon to separate instances.

> When you select instances on the **Discovered** or **Ignored** Instances views, the wizard already adds them to this box.

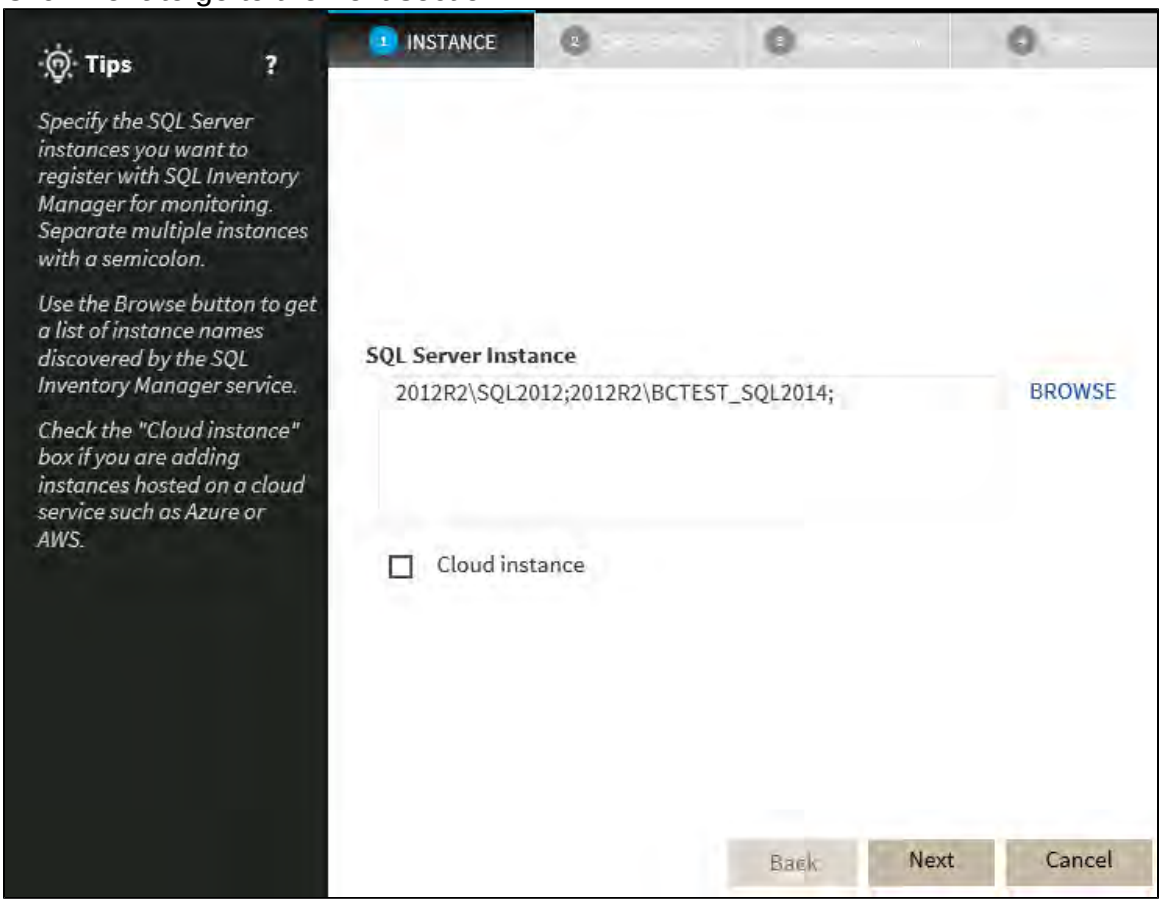


You can use the **Browse** button to access a list of discovered instances that have not been registered yet with IDERA SQL Inventory Manager.

2. Check the box next to the instances you want to add, and click **Apply**.



3. Click **Next** to go to the next section.



2. Credentials

IDERA SQL Inventory Manager connects to registered SQL Server instances and their host computers to collect information. The collection service requires permissions to connect and gather information using the following types of connections:

- SQL connection credentials to perform queries against registered instances
- WMI connection credentials to gather data from the host computers

Tip

For more information on what are the minimum required permissions for these accounts, click here.

Authorize WMI users and set permissions

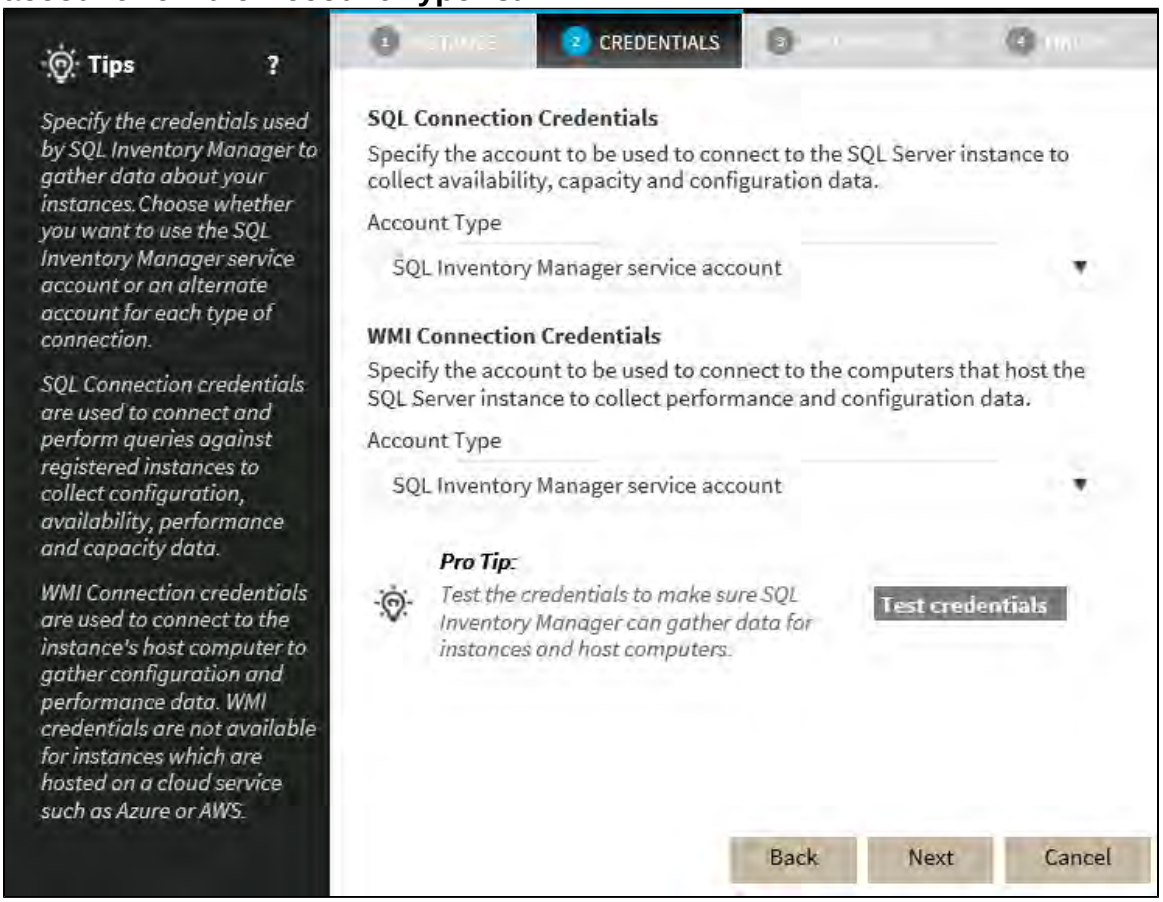
If you want to know how to authorize WMI users and set permissions, click here.

By default, IDERA SQL Inventory Manager connects using the IDERA SQL Inventory Manager service account. However,if you need to provide alternative credentials for any of these two connections, you can choose from the respective options on each section.

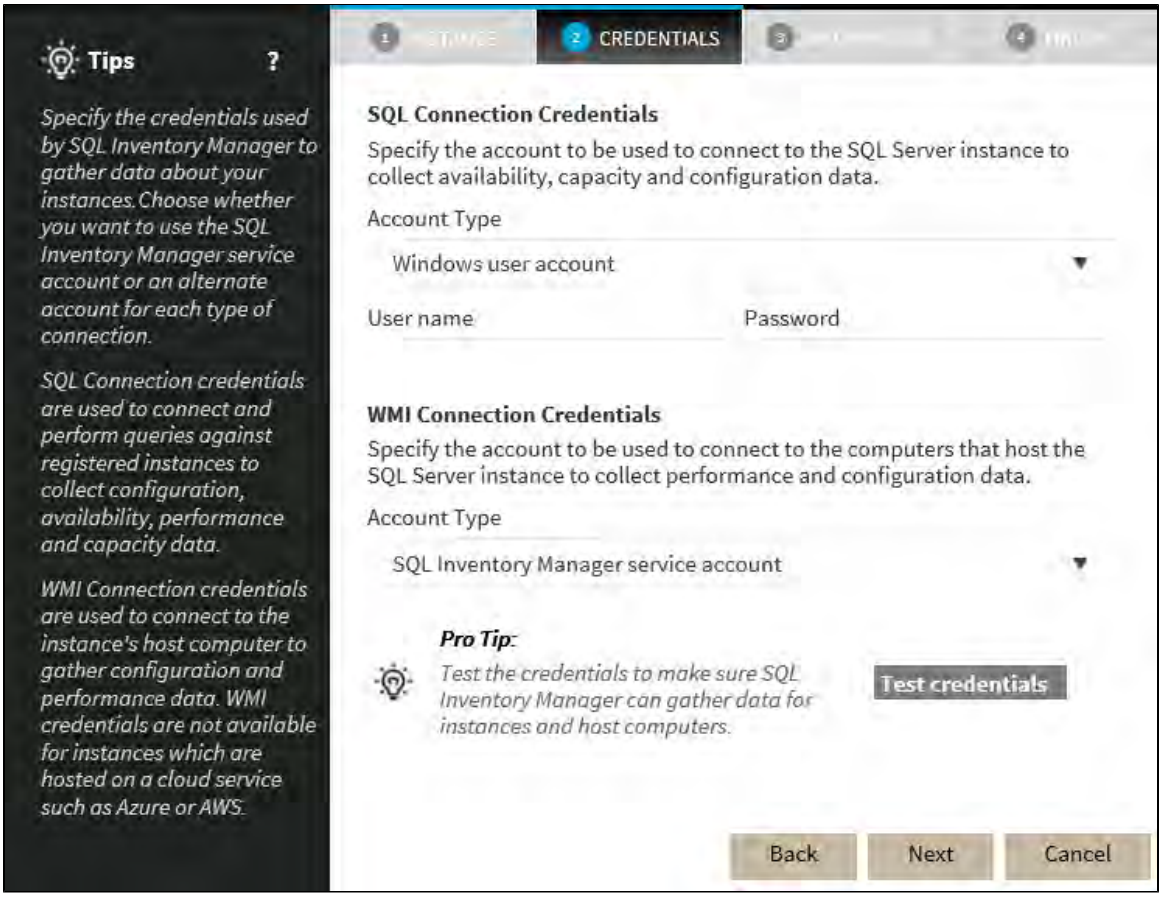
SQL Connection Credentials

- Specify the type of account that you want to use to access your SQL Server instance and collect its information. If you do not want to use the **SQL Inventory Manager service**

account, you can choose to use a **Windows user account** or a **SQL Server login account** from the **Account Type** list.



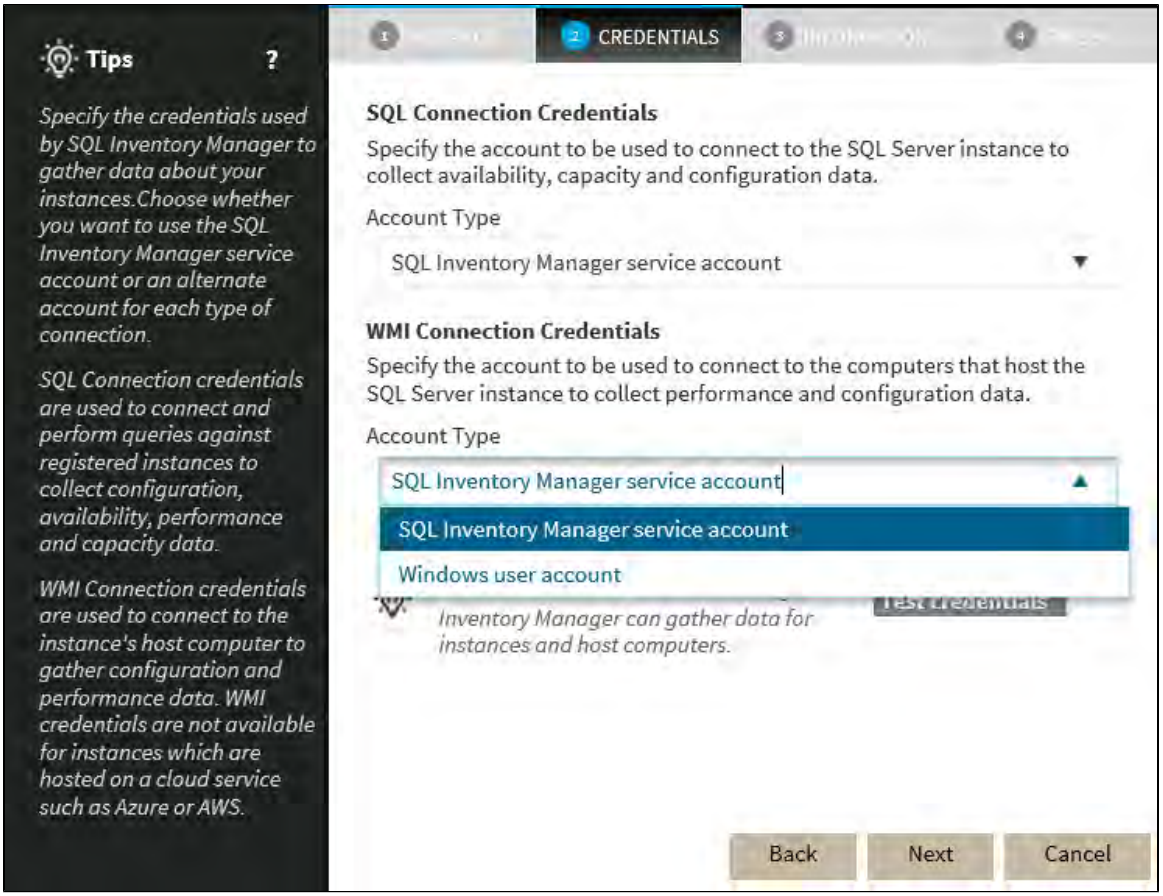
- If you select a **Windows user account** or **SQL Server login account,** type the respective user name and password. IDERA SQL Inventory Manager uses this account for SQL queries to gather availability and configuration data.



- You can test the correctness of your credentials by clicking **Test Credentials**.

WMI Connection Credentials

- On this section, you can choose to use the **SQL Inventory Manager service account** or a **Windows user account** by selecting either of them from the **Account Type** list.



- If you choose to use a **Windows user account**, type the respective user name and password. This account allows you to access Windows configuration data of the computer that hosts the registered instance.

Tip

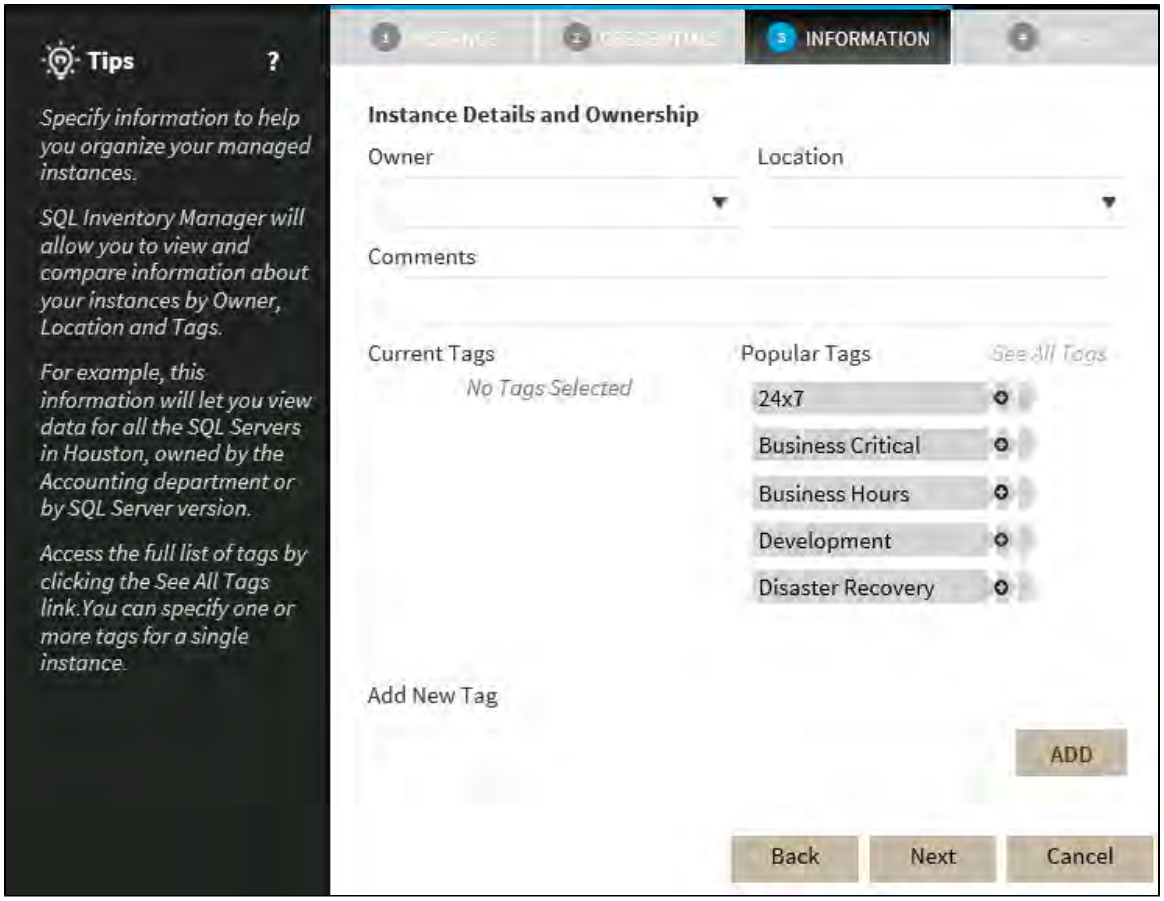
IDERA recommends that you use the **Test Credentials** option to verify that IDERA SQL Inventory Manager can successfully monitor the newly registered instances.

3. Information

On this section you can specify additional information for your instances like **Owner**, **Location**, **Comments** and **Tags**.

Although none of these fields are required, Owner, Location, Comments and Tags provide a powerful method for grouping instances and help you organize your managed instances. You can use these options to view information such as database counts, size, or activity, grouped by these fields.

Use the **Owner** and **Location** drop down lists to access all available options.



To add tags, you can do one of the following:

- Click any of the suggested **Popular Tags** on the right side of the window. The tag appears now on **Current Tags** on the left.
- You can click **See All Tags** on the top right section to display all available tags.
- If you want to **Add a New Tag**, type the name in the bottom box, and click **ADD.** Your new tag will be added to the **Current Tags** list.

Warning

- The tag name must begin with an upper or lowercase alphanumerical character.
- Your tag name must have a maximum length of 20 characters.
- Only the following special characters are valid for tags: ! # @ ( ) ' . : - _ and embedded spaces.

Tip

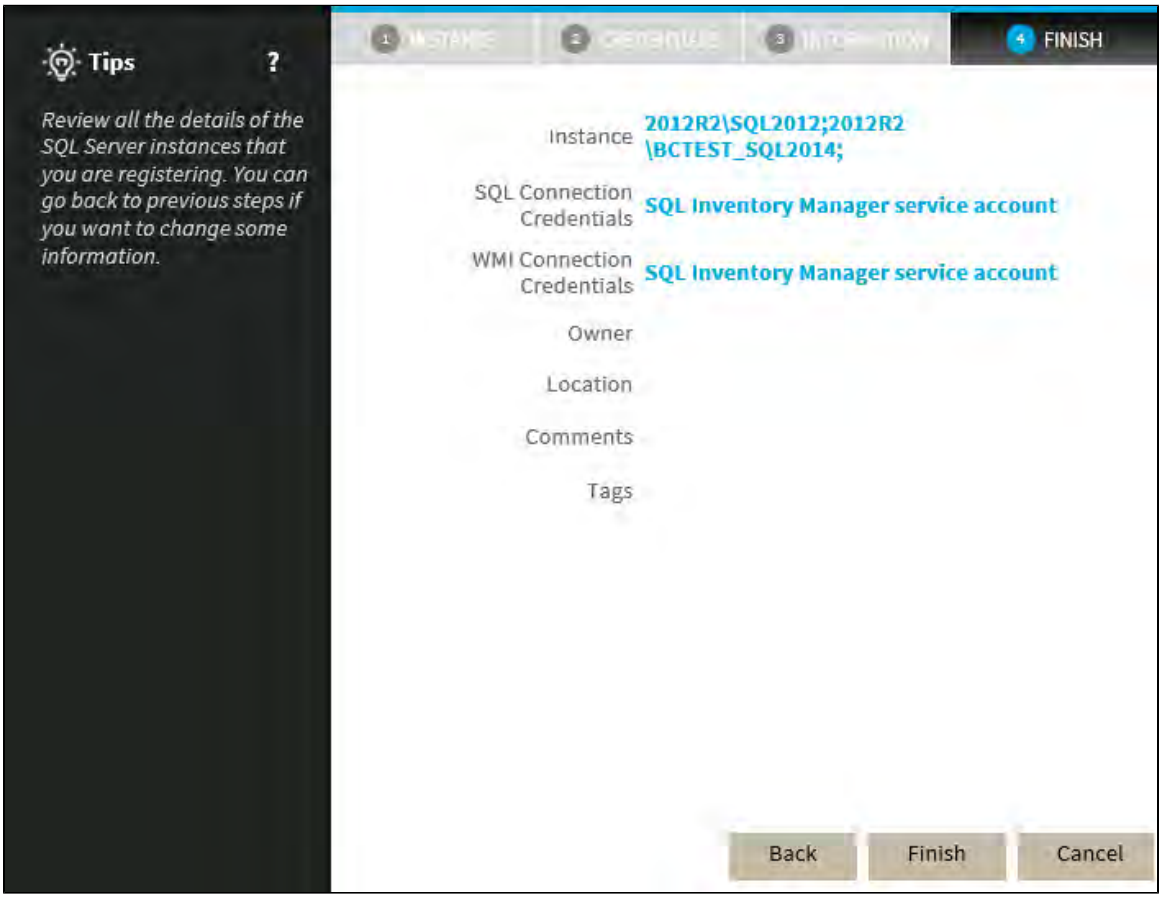
Refer to the Managing tags section for more guidance on how to add, view, edit, or delete tags.

4. Finish

On this section, you can review your Instance Registration Details such as: instance name, SQL Connection Credentials, WMI Connection Credentials, Owner, Location, Comments, and Tags.

To change any of these registration details you can do one of the following:

- You can click any of the title sections (INSTANCE, CREDENTIALS or INFORMATION) and go directly to the place where you need to make the changes.
- You can click **PREV** to go back to the previous sections until you find the place where you need to make changes.



After you review your registration details click **FINISH**. IDERA SQL Inventory Manager begins to collect instances information after a few minutes of their registration and will continuously collect availability, performance, and configuration information from them and their host computers.

Tip

After registration, you can still change credentials, tags, and information settings on the **E dit Properties** option. Refer to Editing instance properties for more information.

About collection intervals

Collection intervals are predefined. You can see more information about collection frequency on the What Health Checks are available in SQL Inventory Manager? section.

You can also force data collection for an instance by selecting **Refresh Data** on the **Instance**

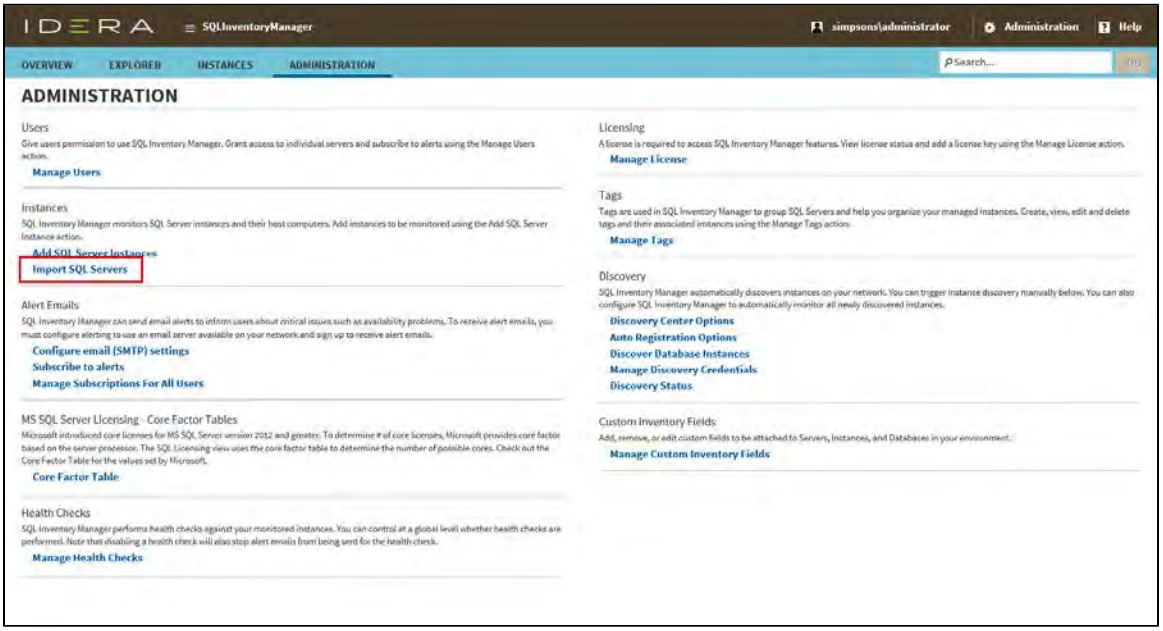
details view. For more information, refer to Viewing instance details.

IDERA SQL Inventory Manager lets you discover and visualize your SQL Server environment. Learn more > >

IDERA Website	Products	Purchase	Support	Community	About Us	Resources	Legal

Import SQL Servers

IDERA SQL Inventory Manager constantly discovers SQL Server instances so you can select those ones that you want to monitor. When you open the **Add SQL Server Instance** wizard, you can choose those ones you want to register with IDERA SQL Inventory Manager; however, you can also import a list of instances from your computer. Go to the **Administration** tab, on the **Instances** section you can find the option **Import SQL Servers.** Use this option to import a .csv file from your computer.



To import a file:

1. Click **Upload** to choose a .csv file from your computer. IDERA SQL Inventory Manager displays the instances from your uploaded .csv file.
2. Select or clear those instances that you want to import, and then click **Import.**

> ⚠
>
> # CSV files
>
> Keep in mind that the .csv files you use to import must have only the names of the instances.

> After you import the instances, you can use the bulk options available on the Managed Instances view to set the credentials for monitoring them, as well as editing their owners, locations, comments, and tags.

IDERA SQL Inventory Manager lets you discover and visualize your SQL Server environment. Learn more > >

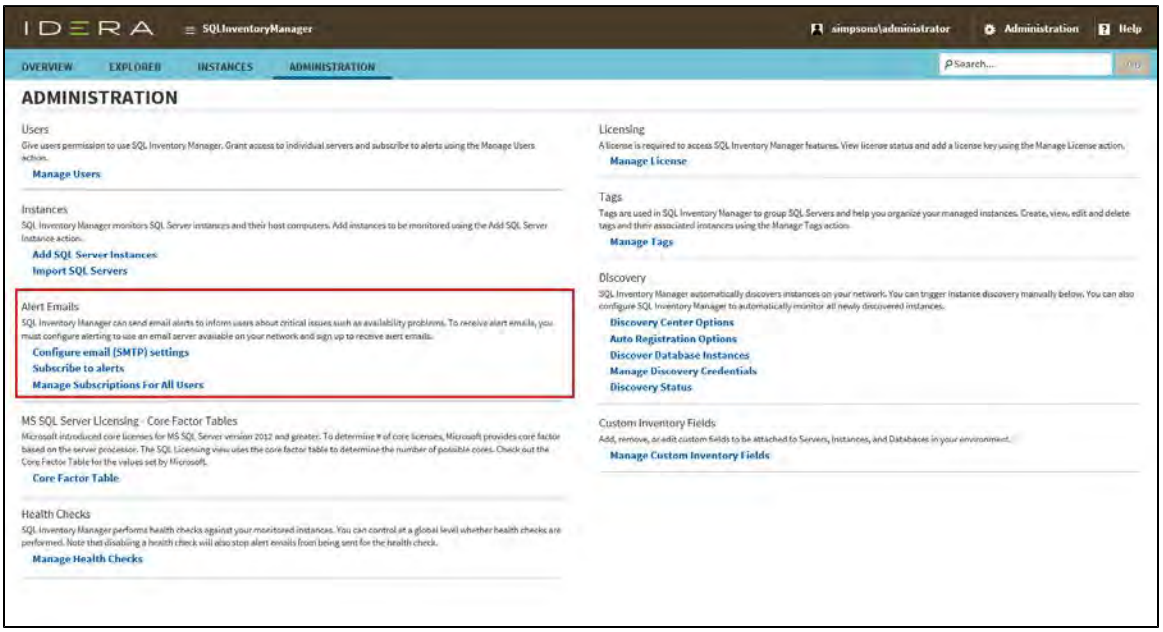
IDERA Website	Products	Purchase	Support	Community	About Us	Resources	Legal

How to configure alert emails

IDERA SQL Inventory Manager can send email alerts to inform users about critical issues from your environment such as availability problems. To receive alert emails, you must configure an available email server on your network and sign up to receive alert emails. On this section, you can select those users that will receive alerts and type their respective email addresses.

This section consists of:

- Configure email (SMTP) settings
- Subscribe to alerts
- Manage Subscriptions For All Users



IDERA SQL Inventory Manager lets you discover and visualize your SQL Server environment. Learn more > >

IDERA Website	Products	Purchase	Support	Community	About Us	Resources	Legal

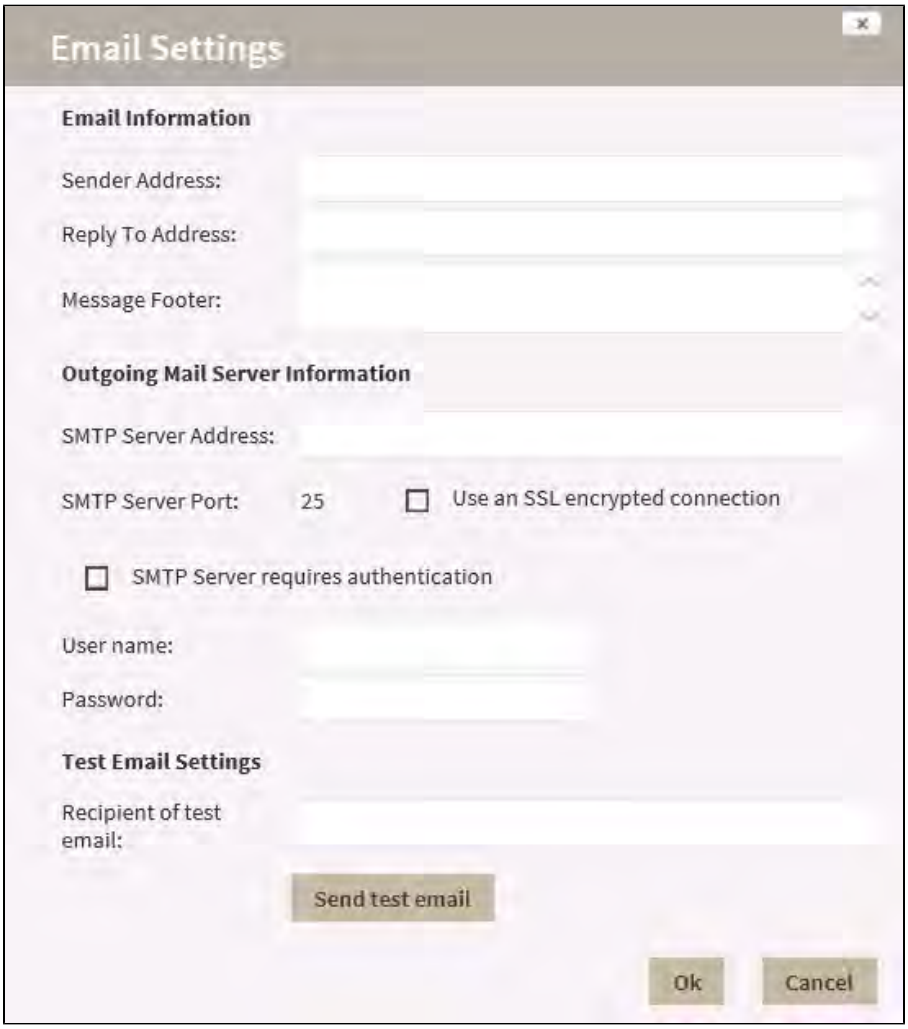
How to configure email settings for alert notifications

IDERA SQL Inventory Manager can send email notifications for warning or critical conditions from your environment, but before subscribing to these email notifications; you must first configure your email (SMTP) settings.

You can access this option by going to the **Administration** tab.

In the **Alert Emails** section, click **Configure email (SMTP) settings.** A dialog box opens with three main sections:

- Email Information
- Outgoing Mail Server Information
- Test Email Settings



Email Information

Sender Address

Enter the email address that SQL Inventory Manager will use as the sender of the emails notifications.

Reply To Address

You must specify a reply-to email address to receive replies from emails.

Message Footer

Enter the text that you want to appear in the footer of notifications.

Outgoing Mail Server Information

In order to send email notifications, you must specify the settings of an email server you want to use. You need to provide the following information:

SMTP Server Address

Enter the name or Internet Protocol (IP) address of your SMTP mail server.

SMTP Server Port

Enter the IP port that the SMTP mail server uses. The default SMTP port is 25.

Use an SSL encrypted connection

Select this check box to use an SSL encrypted connection to connect to the email server.

SMTP Server authentication

Select this checkbox if your SMTP server requires authentication, specify then a valid user name and password to access the email server.

Test Email Settings

You can use this section to test your email settings. For this purpose, enter the **Recipient of the test email** and click **SEND TEST EMAIL**. SQL Inventory Manager sends a test email to the recipient you specify. You can verify this test email in the respective recipient account.

After you configure your email settings, you can subscribe to alerts. For more information on how to subscribe to alerts, go to Subscribing to Alerts.

Manage users

From the **Administration** tab, you can decide which users receive alerts or not. For more information, refer to Managing subscriptions for all users.

IDERA SQL Inventory Manager lets you discover and visualize your SQL Server environment. Learn more > >

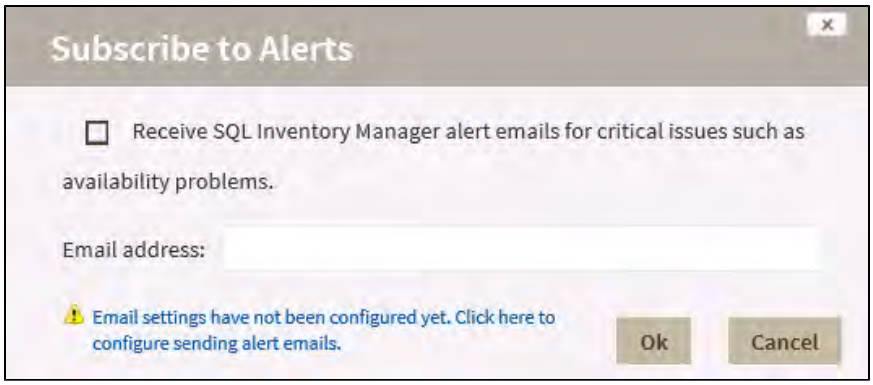
IDERA Website	Products	Purchase	Support	Community	About Us	Resources	Legal

How to subscribe to alert emails

IDERA SQL Inventory Manager can send email notifications for warning or critical conditions from your environment, in order to receive these notifications you have to subscribe to alerts.

To subscribe, go to the **Administration** tab, in the **Alert Emails** section, click **Subscribe to alerts**.

On the **Subscribe to Alerts** window, check the respective box and type the email address where you want to receive these notifications.



Note

If you have not configured your email settings, IDERA SQL Inventory Manager displays **E mail settings have not been configured yet. Click here to configure sending alert emails**, click this option and fill the required fields, for more information go to Configuring email settings for alert notifications.

Manage users

You can also manage your subscriptions from the following sections:

- Managing users.
- Managing subscriptions for all users.

IDERA SQL Inventory Manager lets you discover and visualize your SQL Server environment. Learn more > >

IDERA Website	Products	Purchase	Support	Community	About Us	Resources	Legal

Managing users and their subscriptions

In order for users to access IDERA SQL Inventory Manager, you need to grant them access. Additionally, if they want to receive alert emails, you have to enable this option for each user and type the email addresses where they will receive these notifications.

> To **add** or **delete** user accounts, go to the Administration view of the IDERA Dashboard, and then click **Manage Users**. For more information about adding a new user account, see Managing users in the IDERA Dashboard.

To edit user details (name, subscription, or email address), go to the following options on the **Administration** tab:

- **Users** > **Manage Users**
- **Alert Emails** > **Manage Subscriptions For All Users**

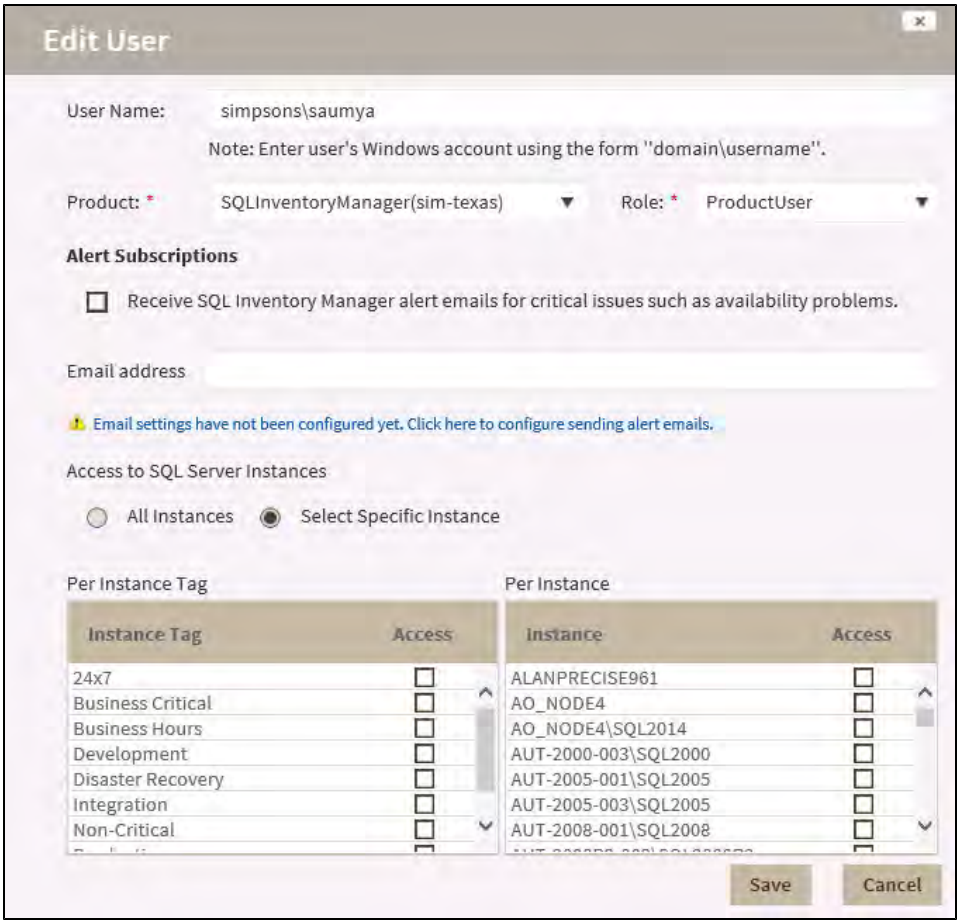
Below you can see the tabs and sections where you can manage your users and subscriptions.

After you select the user(s) you want to manage, the Edit User window opens. On this window, you can see a list of all registered users with their respective email addresses and whether they are subscribed to alerts.

Edit User

This option allows you to edit the user name, change the role, modify the user's alert subscriptions (User and Guest roles only), and change the email address to where they receive alerts. To edit a user account:

1. Either click the user account name, or check the appropriate box for the user account you want to edit, and then click **Edit User**. IDERA SQL Inventory Manager displays the Edit User dialog.



2. Make the appropriate changes.
3. ***If you assign the User or Guest role*** , IDERA SQL Inventory Manager allows you to select which SQL Server instances you want this user to have access. Select **All Instances** to allow this account to access all instances including any new instances in your environment. Select **Select Specific Instance**, and IDERA SQL Inventory Manager displays lists of tags and instances available to assign to this user account. Select the items you want to include.
4. Click **SAVE**.

⚠ If you have not configured your email server settings yet, IDERA SQL Inventory Manager displays the message **Email settings have not been configured yet. Click here to configure sending alert emails.** Click this option to configure your settings. For more information, go to Configuring your email settings for alert notifications.

IDERA SQL Inventory Manager lets you discover and visualize your SQL Server environment. Learn more > >

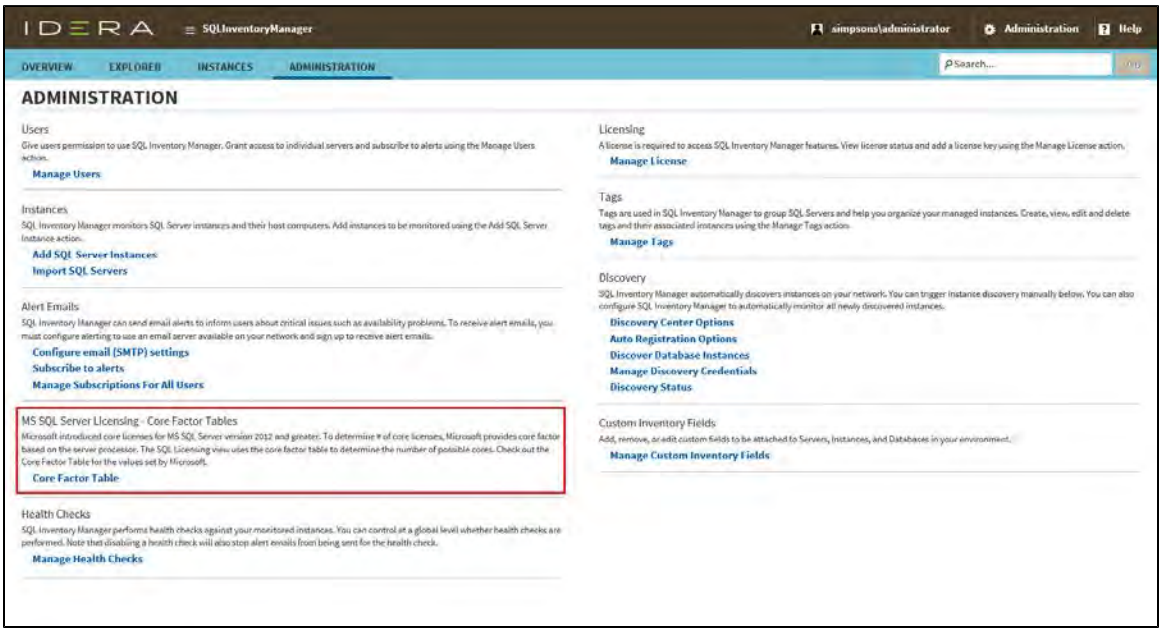
IDERA Website	Products	Purchase	Support	Community	About Us	Resources	Legal

How to manage SQL Server licensing

Microsoft introduced a new server core-based licensing model with the release of SQL Server 2012. Instead of licensing based on physical processors, the new core-based model offers a more accurate measure and better metrics based on computing power for your physical or virtual servers.

IDERA SQL Inventory Manager supports the per-core licensing model using the core factor table, allowing you to override core information for multiple records by editing the processor details.

For more information about using the core-related fields in the Instances SQL Server Licensing view, see SQL Server Licensing view.



SQL Inventory Manager lets you discover and visualize your SQL Server environment. Learn more > >

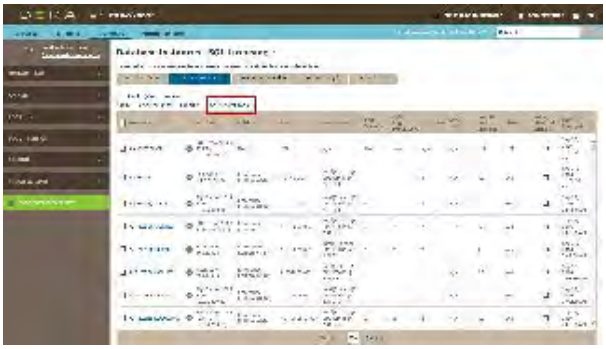
IDERA Website	Products	Purchase	Support	Community	About Us	Resources	Legal

Using the Core Factor Table

You can find the **Core Factor Table** option on the following views:

- **Instances** > **SQL Licensing** tab - The **Core Factor Table** option is located on the action items bar of the SQL Licensing section.
- **Administration** tab - The **Core Factor Table** option is located in the MS SQL Server Licensing - Core Factors Tables section.

Below you can see the tabs and sections where you can find **Add SQL Server instances**. Click the image to view full size.



Note that Core Factor Table values are set by Microsoft. However, privileged administrators can make changes when necessary. This window provides these values to help calculate the number of possible core licenses for your physical servers.

The Core Factor Table displays the following information:

- **SQL Server Version**. Displays the versions of SQL Server associated with the processor types and core factors.
- **Processor Type**. Displays a group or description of processor types.
- **Core Factor**. Displays the numerical value provided by Microsoft based on the CPU. This value helps determine the number of core licenses necessary.
- **Last updated**. Displays a timestamp for the most recent change to the information displayed in this table.

You can view the data in the Core Factor Table, and then click **Check for updates** to check to see if there are any updates. IDERA SQL Inventory Manager displays a confirmation window if updates do exist for your Core Factor Table. Click **Yes** to confirm the update.

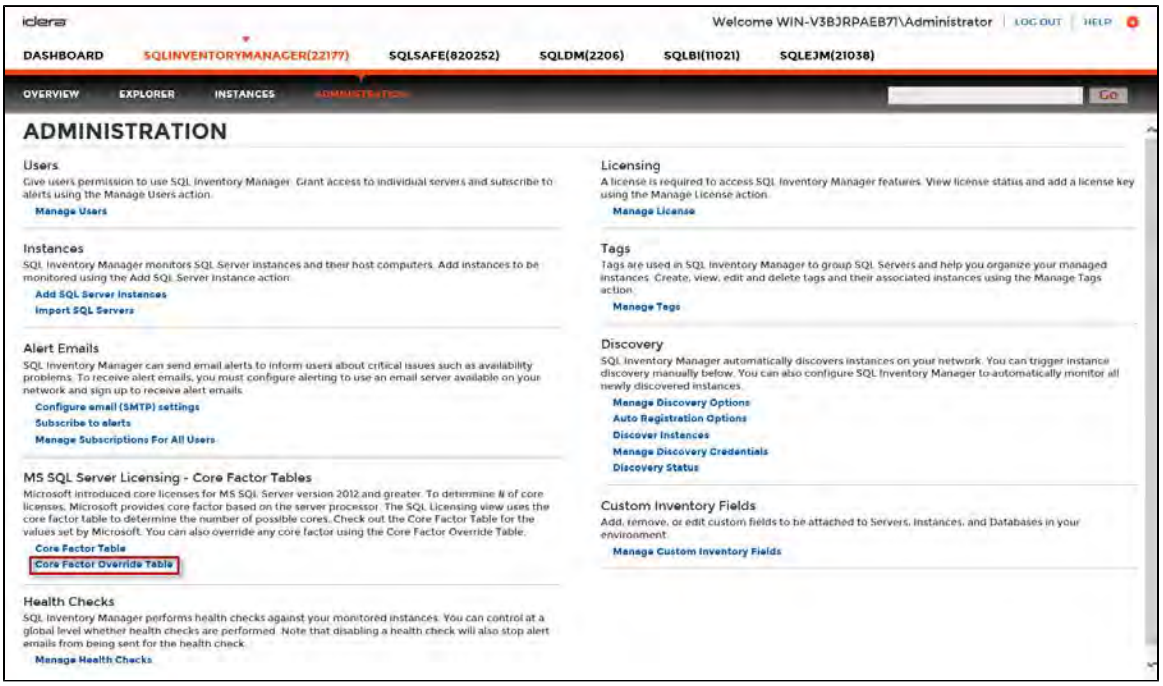
IDERA SQL Inventory Manager lets you discover and visualize your SQL Server environment. Learn more > >

IDERA Website	Products	Purchase	Support	Community	About Us	Resources	Legal

FUTURE - How to manage the Core Factor Override Table

IDERA SQL Inventory Manager allows you to override or edit core information for multiple records by editing the processor type, allowing you to avoid changing information for each affected instance.

You can access this option by going to the **Administration** tab, and then clicking **Core Factor Override Table**.



Enabling a override

The Core Factor Override Table is display only unless the user selects the **Override** checkbox. At that time, the row for the selected SQL Server version becomes editable. Note that you can change the value in only the **Processor Type** and **Core Factor** fields.

SQL Inventory Manager displays the following core factor information:

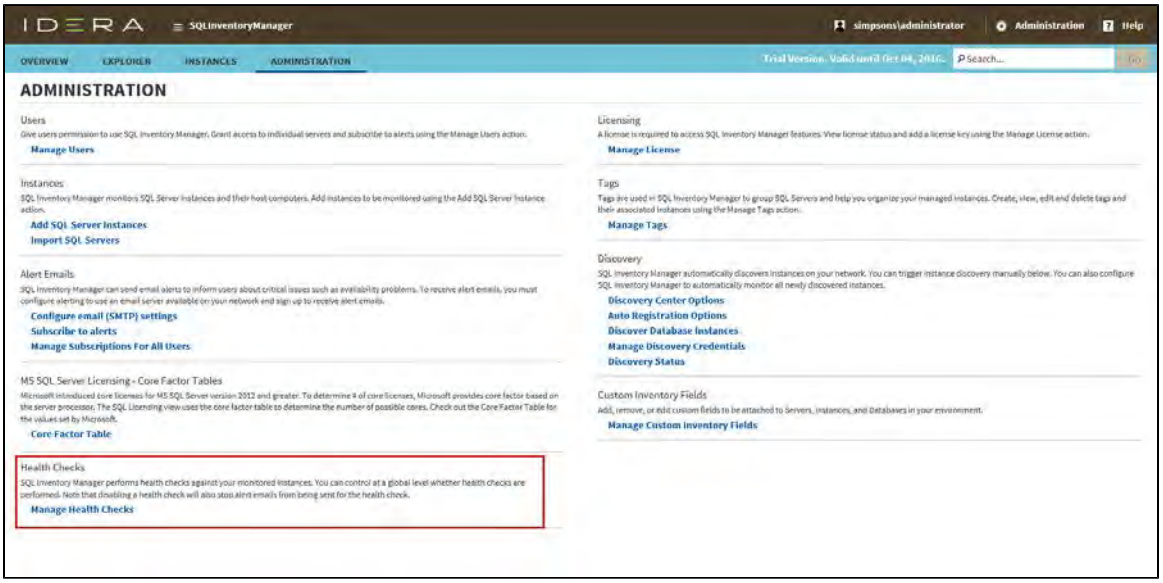
- **SQL Server Version**. Displays the version number for the specific CPU processor type.
- **Processor**. Displays the name of the CPU processor.
- **Processor Type**. Displays the CPU processor value from the Core Factor Table. Note that this field displays "**User Override**" if an override is in use.
- **Where Seen**. Displays a short summary of the servers where the CPUs are located. This field displays the name of only the first server followed by a total count of the other servers where the CPU is seen.
- **Core Factor**. Displays a numerical value that determines the number of core licenses necessary.
- **Override**. Allows you to edit the record. Check this box to edit the **Processor Type** and **Core Factor** values.

Make any changes you want to the provided fields, and then click **SAVE**.

SQL Inventory Manager lets you discover and visualize your SQL Server environment. Learn more > >

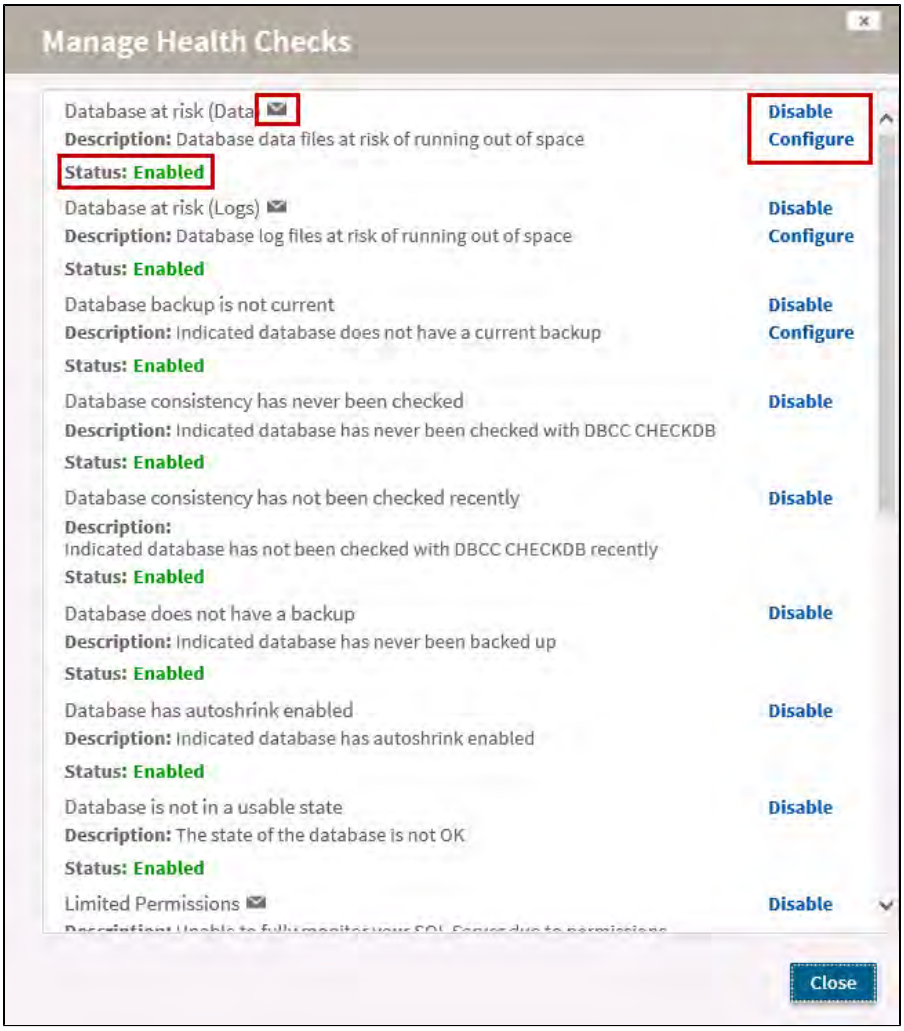
How to manage health checks

Individual health checks can be enabled and disabled at a global level to prevent email notifications and health check warnings. To access your managed health checks, go to the **Administration** tab, and click **Manage Health Checks** on the **Health Checks** section.



The **Manage Health Checks** window opens and displays all available health checks. Please keep in mind that not all health checks send email alert notifications, the envelope icon next to the health check title tells you which health checks send email notifications.

If you do not want IDERA SQL Inventory Manager to perform any of these health checks, you can click **Disable** on the respective health check. After you disable a health check, IDERA SQL Inventory Manager no longer perform this health check and you will not receive email notifications from this health check either.



Configure health checks

IDERA SQL Inventory Manager allows users with the appropriate permissions to configure some health checks to let you customize for specific environments.To open the appropriate customization window, click **Configure** for the appropriate health check on the Manage Health Checks window. For more information about a specific health check configuration, see the following topics:

- Database at risk (Data)
- Database at risk (Logs)
- Database backup is not current
- SQL Server instance is down
- SQL Server is slow
- Volume at risk

Available Health Checks

For more information about the Health Checks performed by IDERA SQL Inventory Manager, go to What Health Checks are available with SQL Inventory Manager?

IDERA SQL Inventory Manager lets you discover and visualize your SQL Server environment. Learn more > >

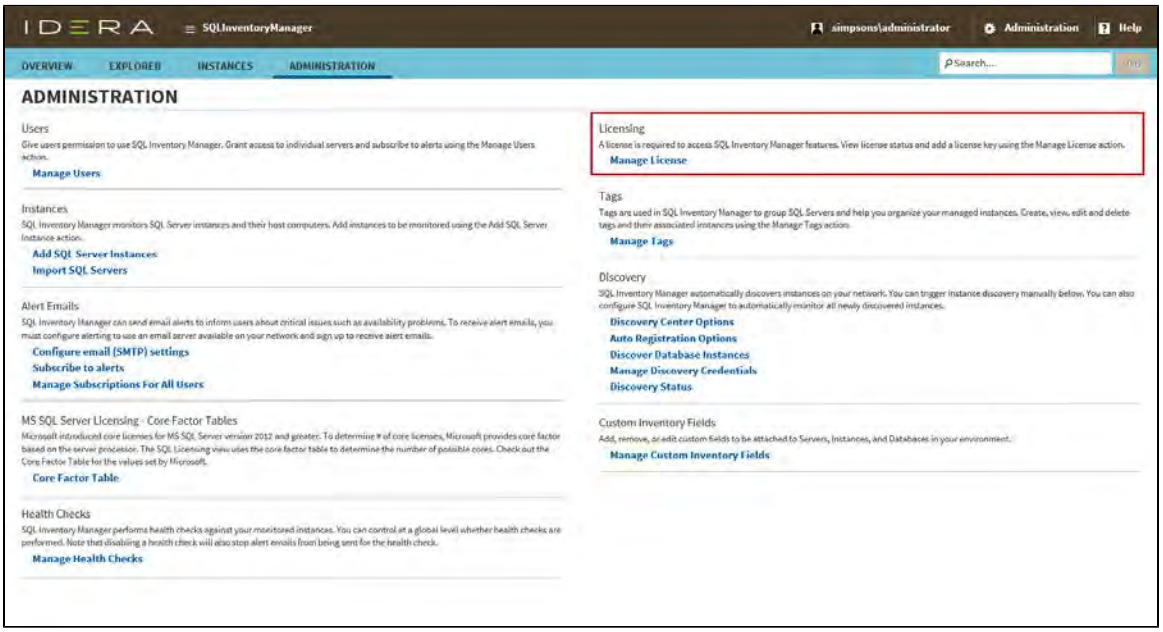
IDERA Website	Products	Purchase	Support	Community	About Us	Resources	Legal

How to manage licenses

A license key is required to access all IDERA SQL Inventory Manager features and determines the number of SQL Server instances that you can monitor.

View your license status, add, or buy a new license key using the Manage License action.

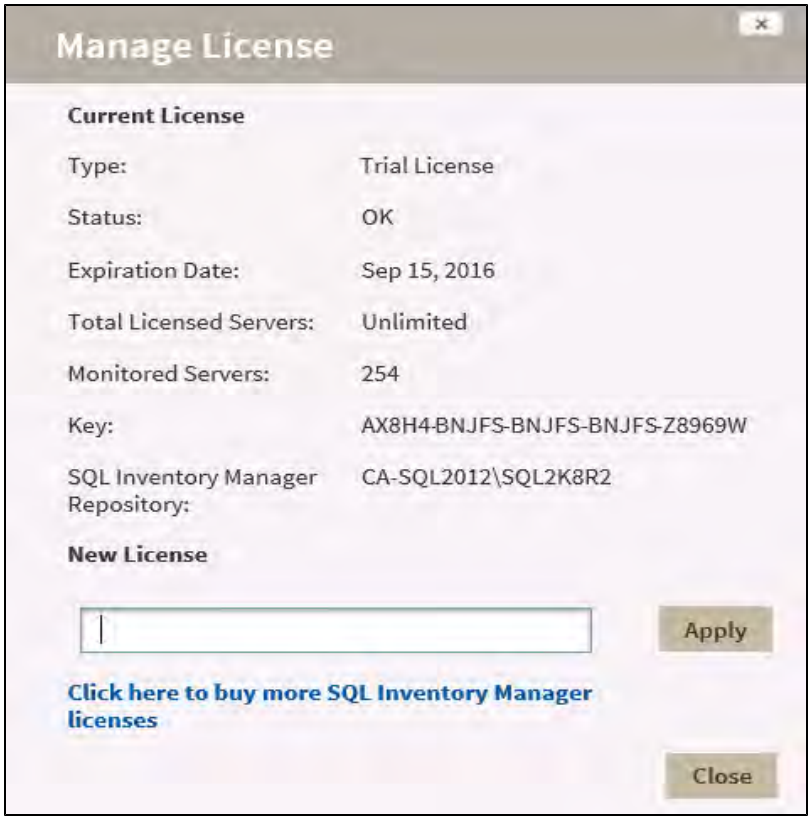
To access this option, go to the **Administration** tab, and then click **Manage License** on the **Licensing** section.



IDERA SQL Inventory Manager opens a new window that displays information relevant to your current license such as type of license, status, expiration date, total licensed servers, monitored servers, license key, and IDERA SQL Inventory Manager repository.

If you want to add a new license key, type this key under the **New License** section, and then click **Apply**.

If you need to buy another license, go to the IDERA store.



IDERA SQL Inventory Manager lets you discover and visualize your SQL Server environment. Learn more > >

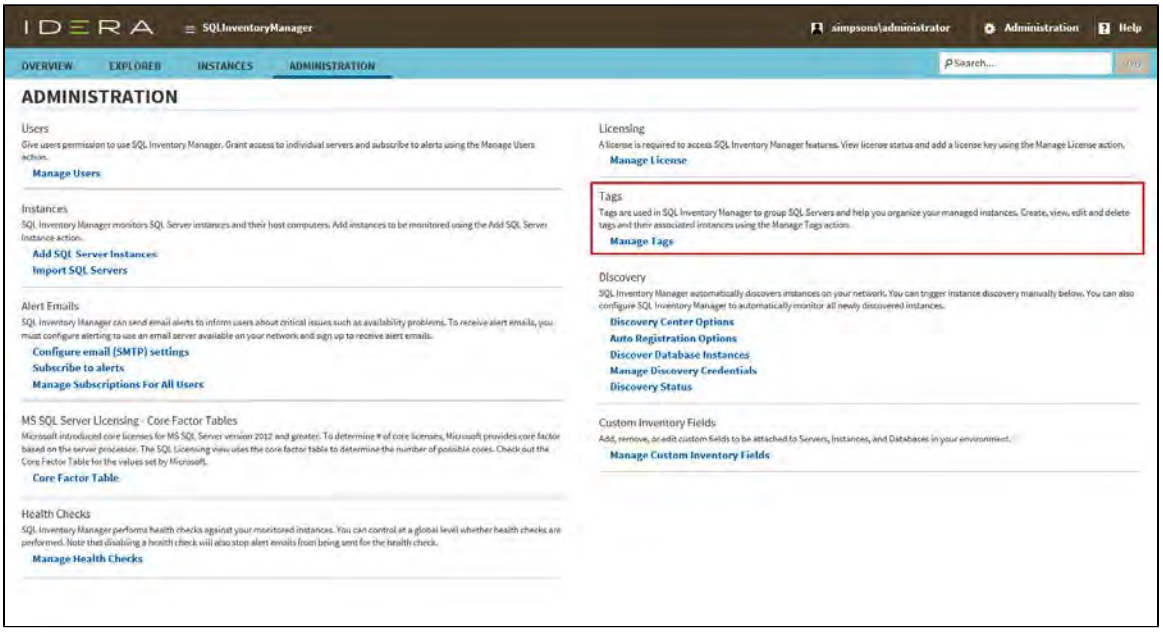
IDERA Website	Products	Purchase	Support	Community	About Us	Resources	Legal

How to manage tags

Tags help you group or organize your instances and databases for better management. For example, use a tag name such as "Disaster Recovery" to identify all your registered instances and databases that are vital to your disaster recovery plan, and have quick access to views and details from this group.

When you register an instance, IDERA SQL Inventory Manager gives you the option to associate that instance to an existing tag, or to create a new tag. For more information on how to add tags when registering an instance, see Add your SQL Server Instances section. You cannot assign tags to databases when adding an instance, but you can make this association when viewing Instance Details or Database Details.

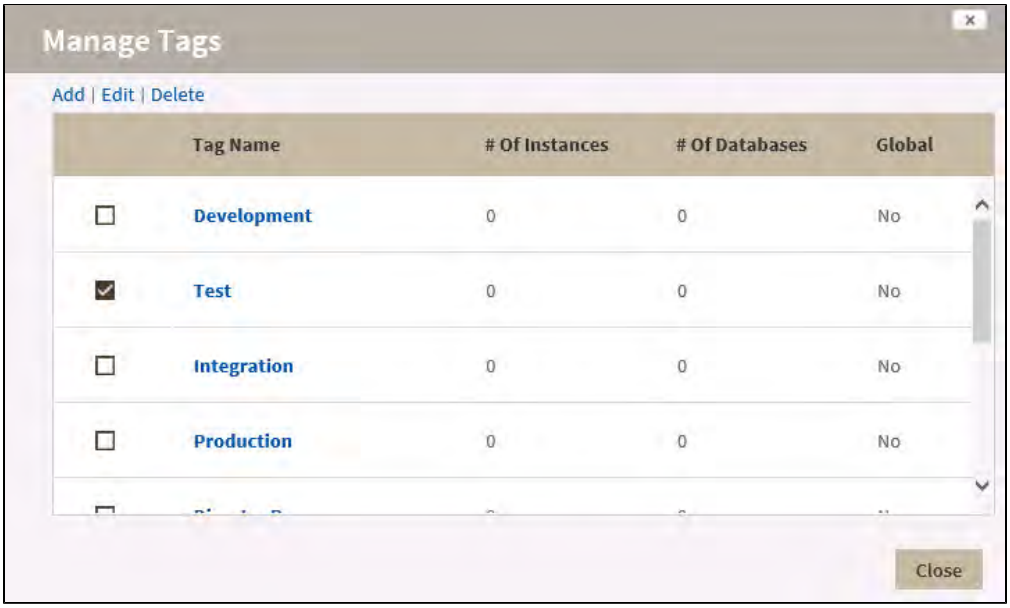
The Manage Tags section on the Administration view allows you to manage the complete list of tags for all your environment.



You can also access the Manage Tags window on the Overview by clicking the pencil icon of the Tags section on the status right sidebar.

In the Manage Tags window you can:

- View the number of instances and databases associated with a tag
- Add new tags
- Edit the list of instances and databases associated with a tag
- Delete tags



Tip

On the Manage Tags window, click the tag name to quickly access the Edit Tag dialog for that tag.

Add a new tag

In the Manage Tags window, click **Add** and IDERA SQL Inventory Manager opens the Add Tag window.

Type the name of the new tag you wish to add, or type several names separating them with a semicolon.

Below the **Tag** field, IDERA SQL Inventory Manager displays a list of registered instances and databases in your environment. Select the checkbox(es) for each instance and database you want to add to this tag, and then click **SAVE**.

Warning

- The tag name must begin with an upper or lowercase alphanumeric character
- Your tag name must have a maximum length of 20 characters

Edit a tag

Editing a tag lets you rename the tag or change which instances or databases are associated with the tag.

To edit a tag, select the checkbox next to the tag you want to edit, and then click **Edit**. You can also access this option by clicking directly on the tag name. Note that you can only edit one tag

at a time.

Make the appropriate changes, and then click **SAVE**.

Delete Tags

To delete one or more tags:

1. In the Manage Tags window, select the checkbox next to the tag(s) you want to delete, and then click **Delete**. IDERA SQL Inventory Manager displays a warning message that requires a confirmation whether you want to delete the selection.
   Click **Yes**. IDERA SQL Inventory Manager deletes the tag(s) and users can no longer use those tags. ***If you did not mean to delete the selected tags*** , click **No**.

> ⚠ When an instance is deleted, the mappings to its tags are also deleted, but not the tags because they may be used for other instances

Managing tags for a single or several instances

IDERA SQL Inventory Manager allows you to manage tags for a specific instance. When you access this option you can choose which tags you want to add or delete for the selected instance. For more information on how to edit tags for single instance, see Manage tags for a single instance.

You can also edit tags for several instances at a time (bulk editing). You can choose to apply a new tag to a group of instances, for example, or delete a tag from selected instances. For more information on how to bulk edit tags on several instances, see Bulk edit tags for several instances.

SQL Inventory Manager lets you discover and visualize your SQL Server environment. Learn more > >

IDERA Website	Products	Purchase	Support	Community	About Us	Resources	Legal

How to manage instance discovery

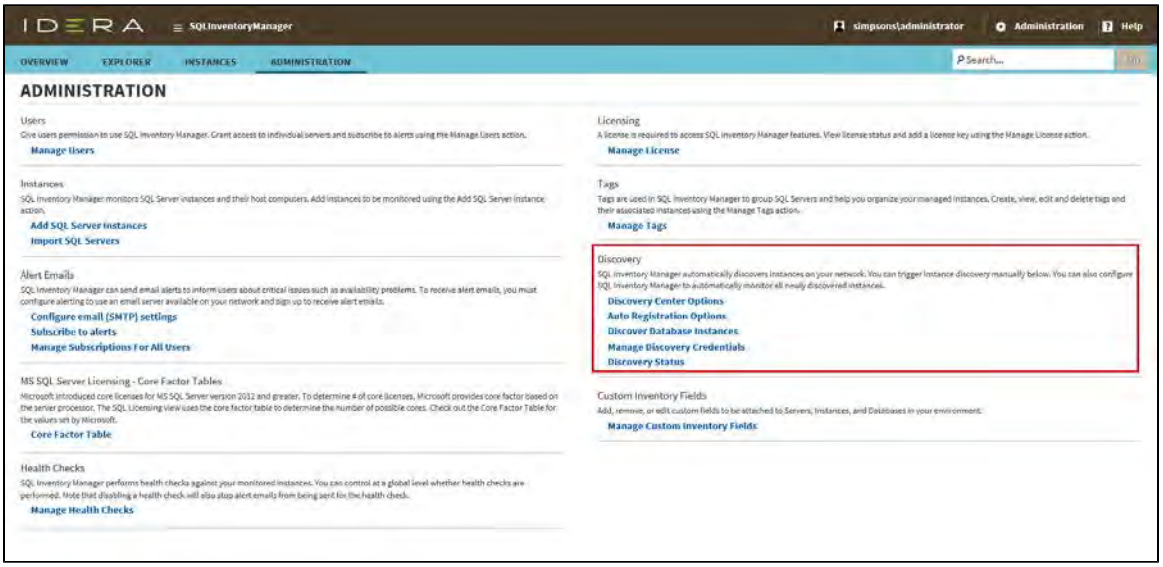
IDERA SQL Inventory Manager automatically discovers instances on your network. You can trigger instance discovery manually using the options in the Discovery section of the Administration view. You can also configure IDERA SQL Inventory Manager to automatically monitor all newly-discovered instances and specify what credentials to use when attempting to connect to an instance.

Note

IDERA SQL Inventory Manager does not discover instances hosted on Amazon Web Services or Azure. You must manually add these instances.

This section consists of:

- Discovery Center options
- Auto Registration Options
- Discover Database Instances
- Manage Discovery Credentials
- Discovery Status



IDERA SQL Inventory Manager lets you discover and visualize your SQL Server environment. Learn more > >

IDERA Website	Products	Purchase	Support	Community	About Us	Resources	Legal

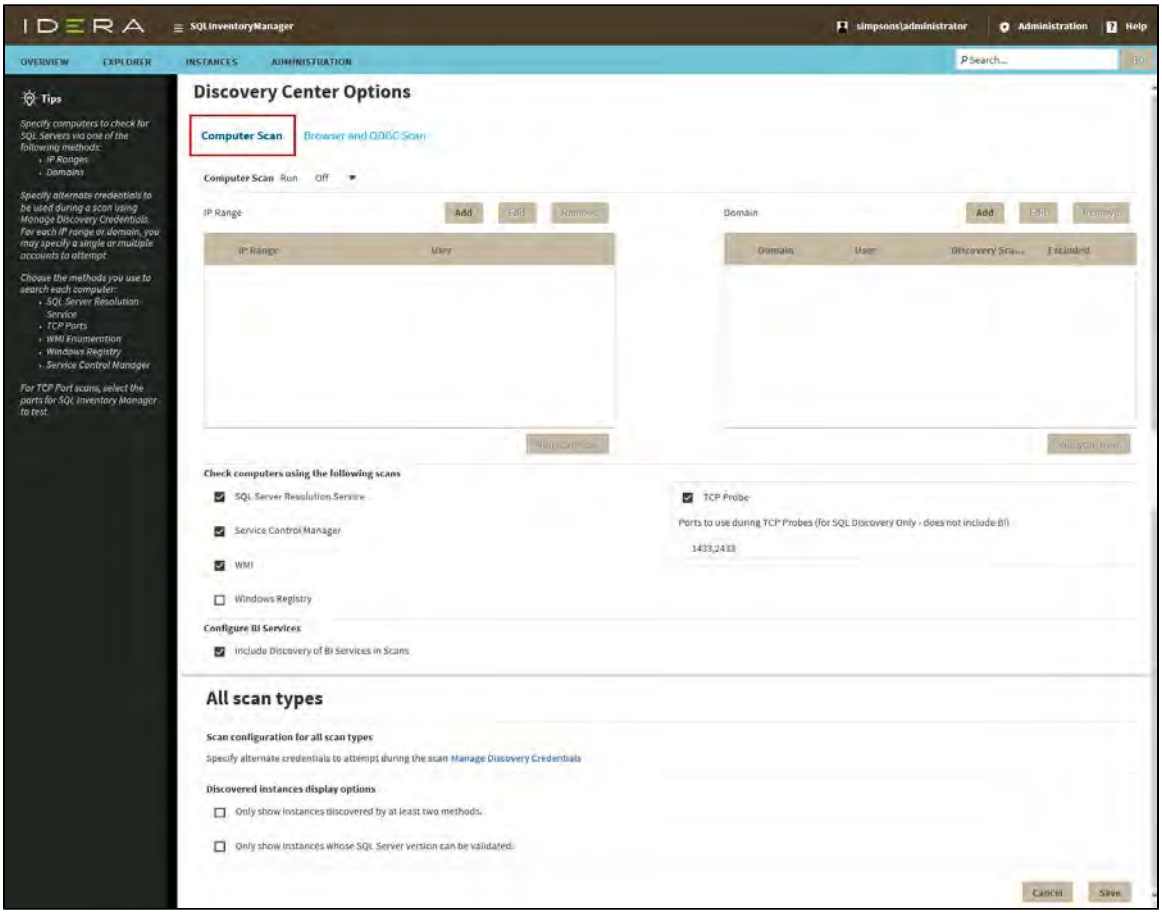
How to manage Discovery Center options

You can specify those computers where you want IDERA SQL Inventory Manager to discover SQL Server instances. The **Discovery Center Options** allow you to specify not only those computers where you want the discovery to be performed but you can also choose which methods you want to use to search in each computer.

To configure these options, go to **Discovery Center Options** on the **Administration** tab.

Setting Computer Scan discovery options

IDERA SQL Inventory Manager uses the Computer scan to obtain a list of machines based on IP ranges or domains. You can set your preferred schedule for a Computer scan daily or weekly. If you choose a Daily schedule, then set the specific time for the discovery job. If you set a Weekly schedule, specify the days of the week and the time when the scan will be performed.



Add IP address ranges for discovery

Use this section to specify those IP address ranges where IDERA SQL Inventory Manager will run scheduled discovery jobs. Users with large environments may choose to exclude certain domains for ad hoc or scheduled scans. These domains are excluded from all scans, whether computer, browser, ODBC, or BI Services.

On this section you can:

- Click **Add** and enter the IP address ranges that you want IDERA SQL Inventory Manager to take into account for discovery jobs. You need to specify the type of account that IDERA

SQL Inventory Manager will use to gather host computer information. Select **Enable** on those IP address ranges where IDERA SQL Inventory Manager will run the scheduled jobs.
- Click **Edit** to change the IP address ranges you entered before to edit their credentials, the IP range information, or enable/disable them for scheduled jobs.
- Click **Remove** to delete any available IP address ranges.
- Additionally, you can select those IP addresses where you want to run an immediate scan. After selecting your IP addresses, click **Run scan Now**.

Add Domains for discovery

The Discovery Center Options allows you to add domains for discovering SQL Server instances. Go to the Domain section, click **Add**, and specify DNS Name, the domain name with the account that will be used to connect to this domain (User and Password). Select **Enable this rule/scan as part of the scheduled computer scan** if you want IDERA SQL Inventory Manager to use the domain for running scheduled jobs.

You can **Edit/Remove** the domains you entered before. You can also select those domains that you want to scan immediately by clicking **Run scan now**.

Specify alternate credentials to use during the scan

IDERA SQL Inventory Manager allows you to specify multiple sets of credentials to attempt to use during instance discovery. Click **Manage Discovery Credentials** to add one or more user accounts to attempt to connect to an instance. List the credentials in the order in which you want IDERA SQL Inventory Manager to use.

Specify scan methods and display options

Choose the methods you want to you use when scanning each computer for SQL Server instances. IDERA SQL Inventory Manager allows you to choose from:

- SQL Server Resolution Service
- Service Control Manager
- WMI
- Windows Registry
- TCP Ports

You can select more than one scan method.

When you select TCP Probe, you have to specify the ports that IDERA SQL Inventory Manager will use to scan. Not that TCP ports are only used for SQL Server instances discovery and does not include BI Services discovery.

If you want to include BI Services in scans, check **Include Discovery of BI Services in Scans**. This checkbox is selected by default. For more information about BI Services, see Viewing BI Services.

Choose the way you want IDERA SQL Inventory Manager to display the results. Options include:

- **Only show instances discovered by at least two methods**
- **Only show instances whose SQL Server version can be validated**

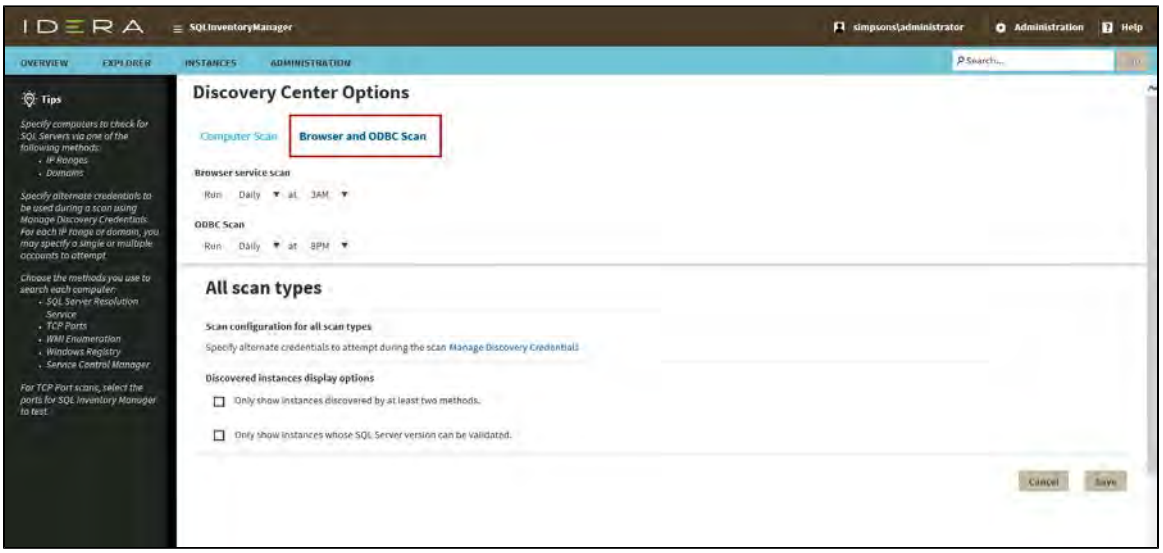
Take into account that when executing WMI scans on large IP ranges, a No buffer

Available Space exception may occur. For more information about this, click here.

Setting Browser and ODBC Scan discovery options

You can set your preferred schedule for Browser service and ODBC scans. IDERA SQL Inventory Manager uses the Browser service scan to run the general discovery of SQL Server instances.

You can set the schedule of your preference (Daily, Weekly) for any of the mentioned scans. If you choose a Daily schedule, then set the specific time for the discovery job. if you set a Weekly schedule, specify the days of the week and the time when the scan will be performed.



Specify alternate credentials to use during the scan

IDERA SQL Inventory Manager allows you to specify multiple sets of credentials to attempt to use during instance discovery. Click **Manage Discovery Credentials** to add one or more user accounts to attempt to connect to an instance. List the credentials in the order in which you want IDERA SQL Inventory Manager to use.

Specify display options

Choose the way you want IDERA SQL Inventory Manager to display the results. Options include:

- **Only show instances discovered by at least two methods**
- **Only show instances whose SQL Server version can be validated**

IDERA SQL Inventory Manager lets you discover and visualize your SQL Server environment. Learn more > >

IDERA Website	Products	Purchase	Support	Community	About Us	Resources	Legal

How to manage auto registration options

If you want to register all SQL Server instances every time new ones are discovered, IDERA SQL Inventory Manager allows you to automatically register them as they are continuously discovered. This option also lets you to choose which SQL Server editions you want to exclude from auto registration.

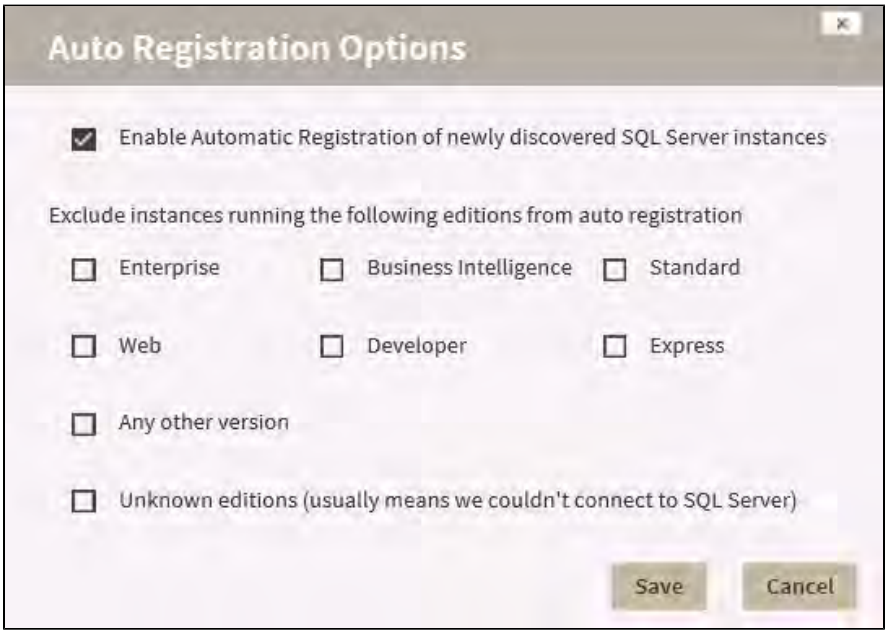
You can find the Auto Registration Options in the following sections:

- **Overview**. Click **Auto-Registration** on the Status sidebar.
- **Instances** > **Discovered** view. Click **Auto Registration Options** on the actions items bar.
- **Administration**. Click Auto Registration Options in the Discovery section.

> IDERA SQL Inventory Manager does not register instances that were discovered before turning on this option and does not register more instances than the number available for your license.

The Auto Registration Options window opens. Select **Enable Automatic Registration of newly discovered SQL Server instances**. On this window IDERA SQL Inventory Manager allows you to exclude the following editions:

- Enterprise
- Business Intelligence
- Standard
- Web
- Developer
- Express



Additionally, you can select **Any other version** when you only want the previous options to be taken into account for registration and you want to exclude any other editions.

Choose **Unknown editions** to exclude registering those SQL Server instances that IDERA SQL Inventory Manager cannot connect to.

When you enable Auto Registration, IDERA SQL Inventory Manager automatically registers newly discovered instances but it does not assign them owner, location, or any other tags; additionally, they are all registered using IDERA SQL Inventory Manager service credentials. You can later add or change this information individually from the Editing properties window or by editing several instances at once from the **Instances** view (Managed and SQL Licensing views), for more information refer to Managed instances.

Warning

Take into account that unsupported SQL Server versions are not auto registered.

Tip

If you want to get the latest discovered instances, you can trigger the instance discovery job by clicking **Discover Database Instances** on the same section.

IDERA SQL Inventory Manager lets you discover and visualize your SQL Server environment. Learn more > >

IDERA Website	Products	Purchase	Support	Community	About Us	Resources	Legal

How to manage discovery of new database instances

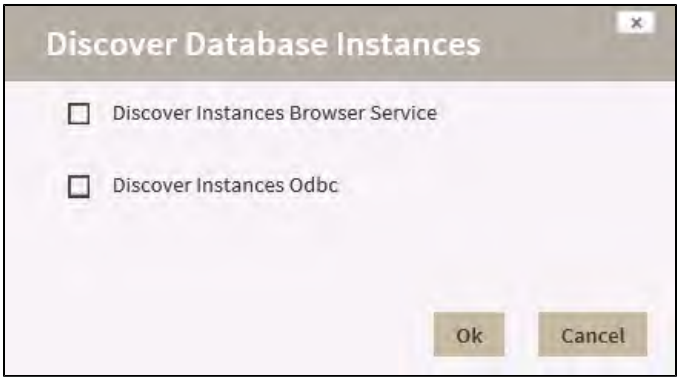
If you want to get the latest discovered instances, you can trigger the instance discovery job by clicking **Discover Database Instances** located on the **Discovery** section.

Choose whether you want to discover instances using the browser service and/or ODBC. From the moment you enable this option, IDERA SQL Inventory Manager begins registering newly discovered instances.

Registration limited by license

IDERA SQL Inventory Manager does not register more instances than the number available for your license.

When you enable this option, IDERA SQL Inventory Manager automatically registers newly discovered instances but it does not assign them owner, location, or any other tags; additionally, they are all registered using IDERA SQL Inventory Manager service credentials. You can later add or change this information individually from the Editing properties window or by editing several instances at once from the Instances view, for more information refer to Managed instances.



IDERA SQL Inventory Manager lets you discover and visualize your SQL Server environment. Learn more > >

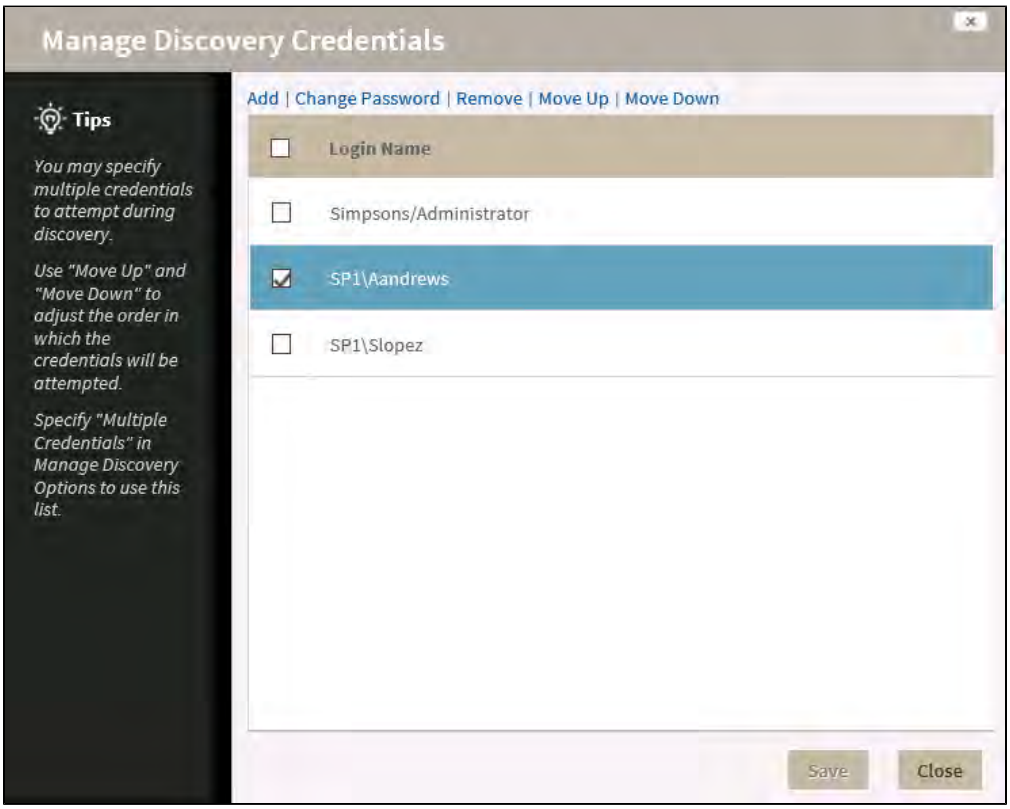
IDERA Website	Products	Purchase	Support	Community	About Us	Resources	Legal

How to manage discovery credentials

IDERA SQL Inventory Manager allows you to specify alternate credentials to use during the discovery process in case the original credentials are not valid. **Manage Discovery Credentials** lets you enter multiple discovery credentials and specify the order in which you want IDERA SQL Inventory Manager to attempt to use when connecting to a server.

To configure these options, go to **Manage Discovery Credentials** on the **Administration** tab.

The **Manage Discovery Credentials** window opens and displays a list of credentials that IDERA SQL Inventory Manager should use during discovery when attempting to connect to an instance. Credentials are used in the order in which they display, so make sure that the credentials appear in the proper order. To move a set of credentials, check that line, and then click **Move Up** or **Move Down** from the action menu.



Add credentials for discovery

The Manage Discovery Credentials window allows you to add credentials for discovering SQL Server instances. Click **Add** and IDERA SQL Inventory Manager displays the Add Discovery Credentials dialog box. Type the user name and password, confirm the password, and then click **Save**.

Change credentials password

Select one or more sets of credentials when you need to change a password. IDERA SQL Inventory Manager changes the password for all checked credentials. Click **Change Password** in the action menu, and IDERA SQL Inventory Manager displays the Change Password dialog box. Make the appropriate changes, and then click **Save**.

Remove credentials

If you want to remove a set of credentials from IDERA SQL Inventory Manager, select the appropriate set or sets of credentials, and then click **Remove**. Verify that the correct credentials are displayed in the confirmation message, and then click **Yes**.

IDERA SQL Inventory Manager lets you discover and visualize your SQL Server environment. Learn more > >

IDERA Website	Products	Purchase	Support	Community	About Us	Resources	Legal

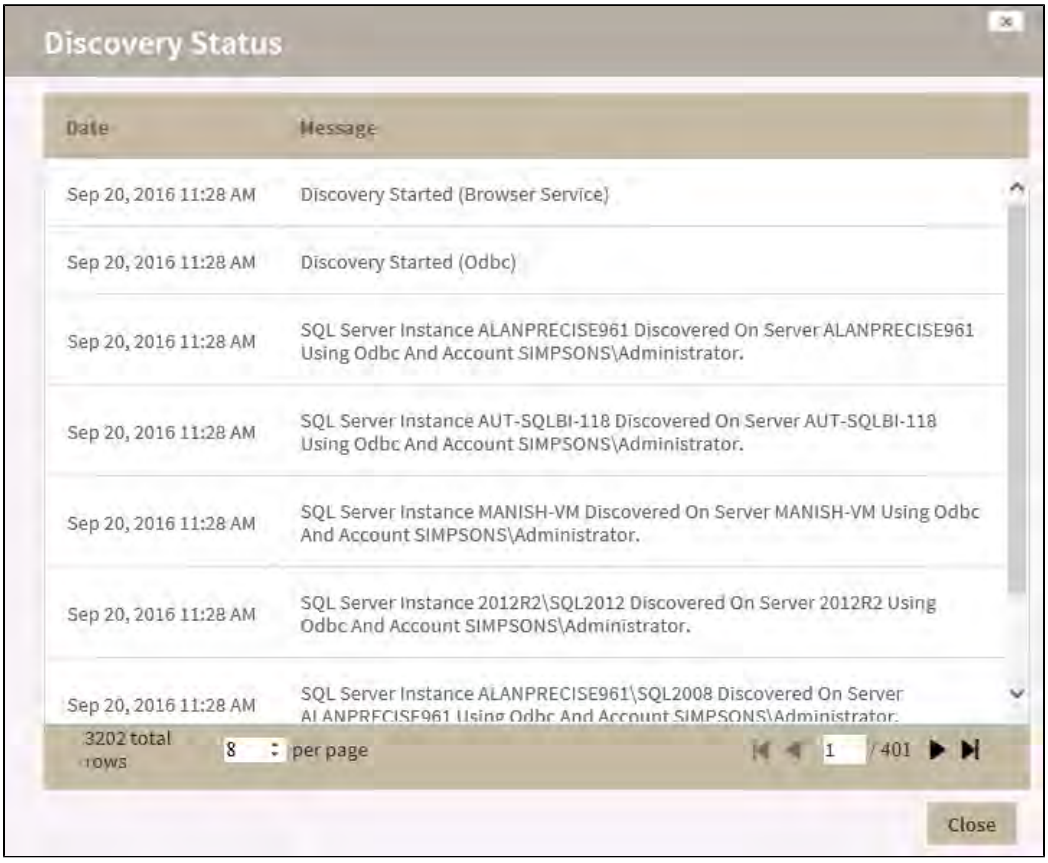
Viewing discovery status

The IDERA SQL Inventory Manager displays a read-only log of all the actions and events occurring during the instance discovery process. These events include:

- Discovery started, including type of scan
- Discovery completed, including type of scan and the total number of systems scanned
- Status message for each 100 systems scanned
- Status message when a new SQL Server instance is discovered, including the instance name, discovery method, and user account name used
- Any errors encountered during discovery
- Any password failures encountered during discovery
- All auto-registration activity

To view this log, go to **Discovery Status** on the **Administration** tab.

For each activity, IDERA SQL Inventory Manager displays a timestamp of the event as well as a message corresponding to the type of event that occurred. The Discovery Status log displays only the last 7 days of activity.

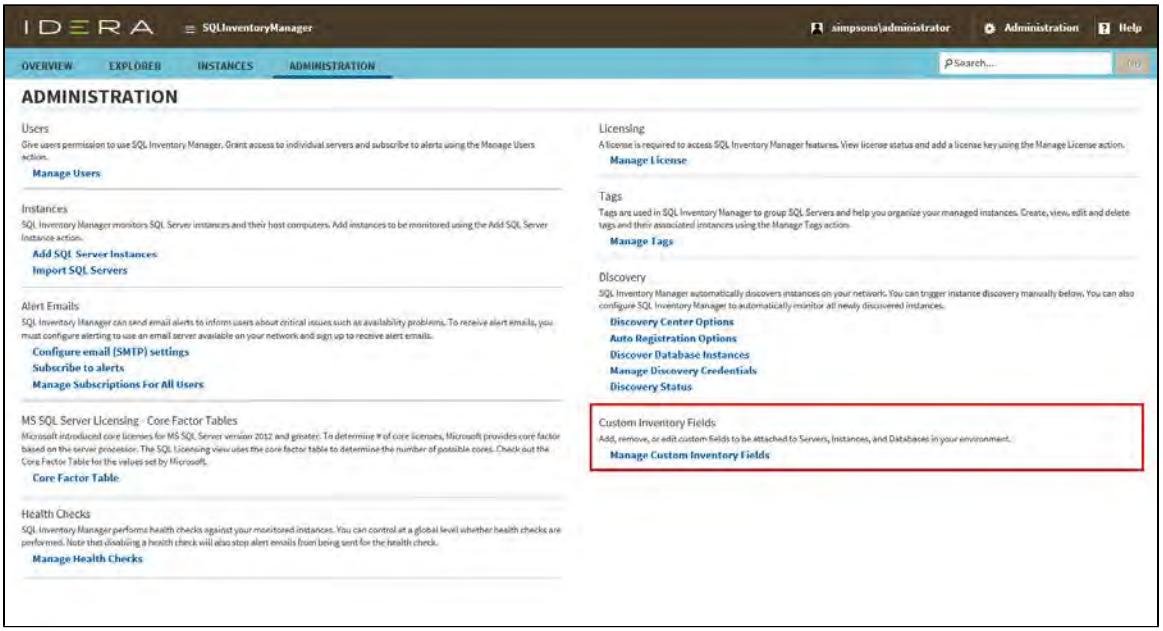


IDERA SQL Inventory Manager lets you discover and visualize your SQL Server environment. Learn more > >

IDERA Website	Products	Purchase	Support	Community	About Us	Resources	Legal

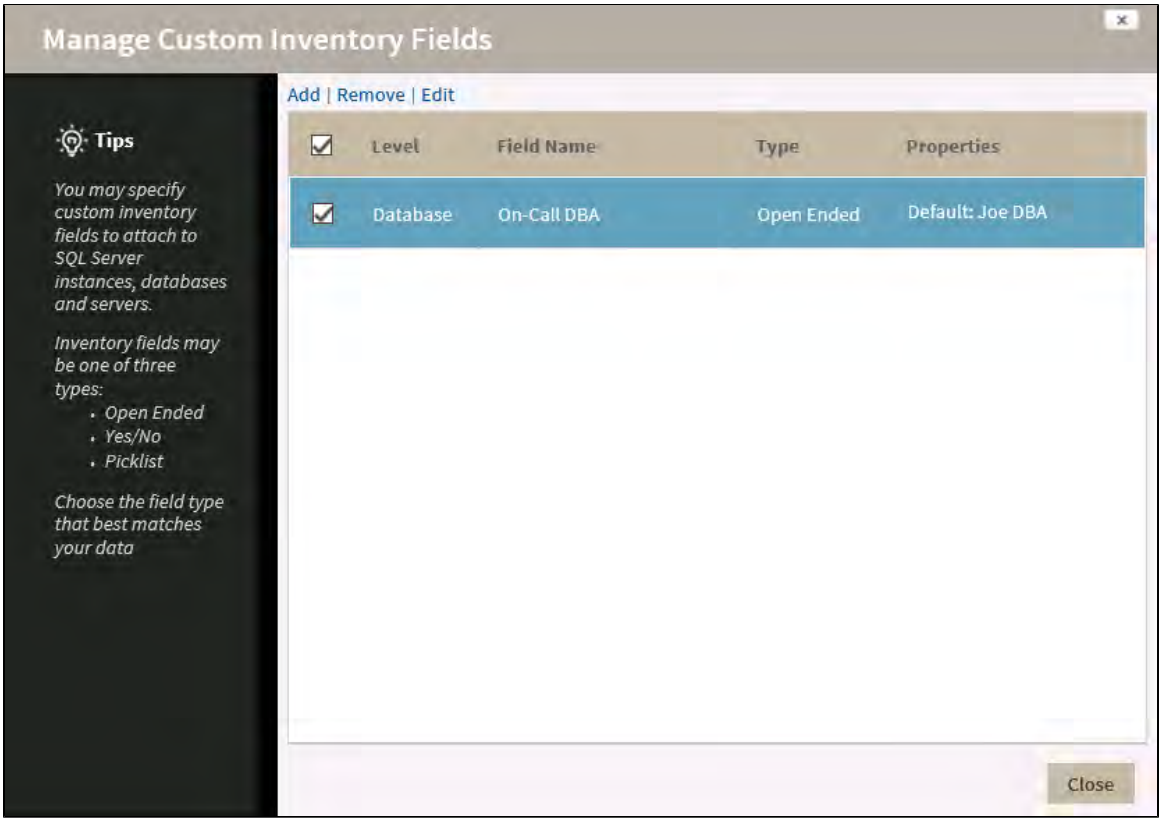
How to manage custom inventory fields

IDERA SQL Inventory Manager includes a feature that lets you add custom inventory fields to your servers, instances, and databases to allow for easier identification. When applied to an instance, this information appears in the Instance Summary section of the Instance Details view. For more information about changing the value(s) of a custom field, see Information available on Instance Details. When applied to a database, this information appears in the Database Details window.



> Users who create or manage these fields must be administrators within IDERA SQL Inventory Manager. Product Users can edit the values of the custom inventory fields for the instances to which they have access.

The Custom Inventory fields section on the Administration view allows you to manage the complete list of custom fields for all your environment.



Add a new custom inventory field

1. In IDERA SQL Inventory Manager Administration, click **Manage Custom Inventory Fields**. IDERA SQL Inventory Manager displays the Manage Custom Inventory Fields window.
2. Click **Add**. IDERA SQL Inventory Manager displays the Add Inventory Field dialog box.
3. Type the name for the new inventory field. Names must be less than 30 characters and this field cannot be empty.
4. Select the element level, whether **Server**, **Instance**, or **Database**.
5. Select the data type, whether **Open Ended**, **Yes/No**, or **Picklist**.
   - ***If you select Open Ended*** , use the **Default Contents** field to type the information that you want to appear by default on all the instances, servers, or databases until a user changes the value through editing. If the default is a null or blank string, the Properties column of the Manage Custom Inventory Fields window displays **Default: (empty)** once you save this inventory item. The default value on the field level is empty until a user enters a value. This field is limited to 250 characters.
   - ***If you select Yes/No*** , select whether you want **Yes** or **No** to appear as the default value.
   - ***If you select Picklist*** , use the **Options** field to list the items you want available to the user when they select this inventory item. Add only one option per line. This field is limited to 100 characters. Note that the first line is the default option which displays **(Default)** next to the item in the **Properties** column once you save this inventory item. Note that the default value is populated for the field for all servers, instances, or database depending on the field level that was selected.
6. Click **Save**.

Edit a custom inventory field

Editing a custom inventory field lets you rename the field or change the options for the selected data type.

To edit a custom inventory field, select the checkbox next to the field you want to edit, and then click **Edit**. Note that you can only edit one custom inventory field at a time.

If you attempt to delete an item in the Options field and that item is assigned to a server, instance, or database, you can only change the option name and cannot delete the data. If you still want to delete that option, remove the assignment of that option from the server, instance, or database in use, and then re-attempt to delete that option.

You can edit the inventory field name and value, but cannot change the level and type. If you change the default value, the value is not updated for existing fields unless you cleared the value before making the update. From this point on, the default content is populated with the new value for new instances, servers, or databases depending on what field level is selected.

Make the appropriate changes, and then click **SAVE**.

Remove a custom inventory field

To remove one or more custom inventory fields:

1. In the Manage Custom Inventory Fields window, select the checkbox next to the field(s) you want to delete, and then click **Remove**. IDERA SQL Inventory Manager displays a warning message that requires a confirmation whether you want to remove the selection. Click **Yes**. IDERA SQL Inventory Manager deletes the field(s) and users can no longer use those fields. ***If you did not mean to delete the selected fields*** , click **No**.

Change a custom inventory field value on an instance

Your custom inventory fields are applied to the servers, instances, and databases automatically.

IDERA SQL Inventory Manager lets you discover and visualize your SQL Server environment. Learn more > >

IDERA Website	Products	Purchase	Support	Community	About Us	Resources	Legal

Add SQL Server instances

In order to manage an instance, access its details, and add it to your monitored environment, you need to register it with IDERA SQL Inventory Manager. This section helps you register one or more instances with IDERA SQL Inventory Manager.

You can find the **Add SQL Server Instance** option on the following views:

- **Overview**. Located in the top-right section of the Instances table.
- **Instances**. Located in the action items bar in each of the Managed, SQL Licensing, Decommissioned, Discovered, Ignored, and Ignored tabs.
- **Administration**. Located in the Instances section.

Below you can see the tabs and sections where you can find **Add SQL Server instances**. Click the image to view full size.

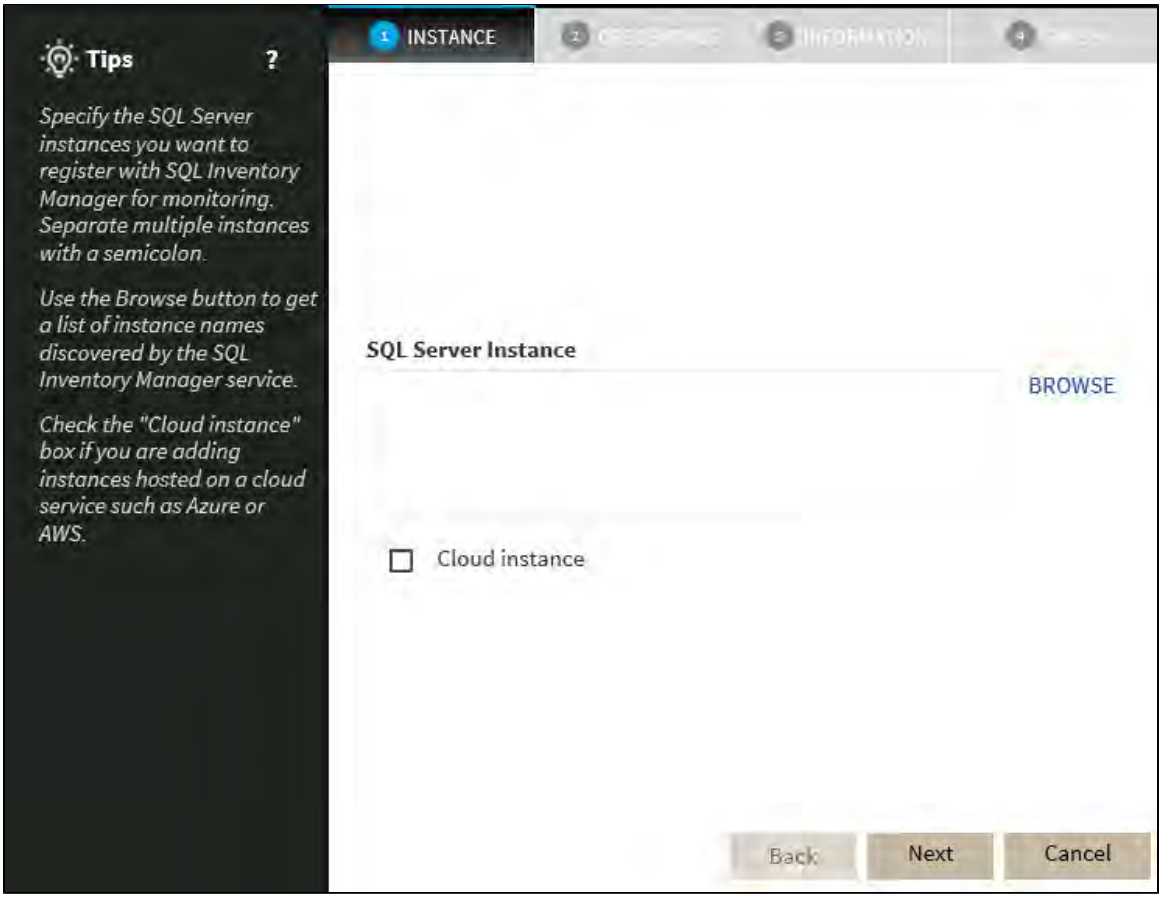
The Add Instance Wizard contains the following four sections:

1. Instance

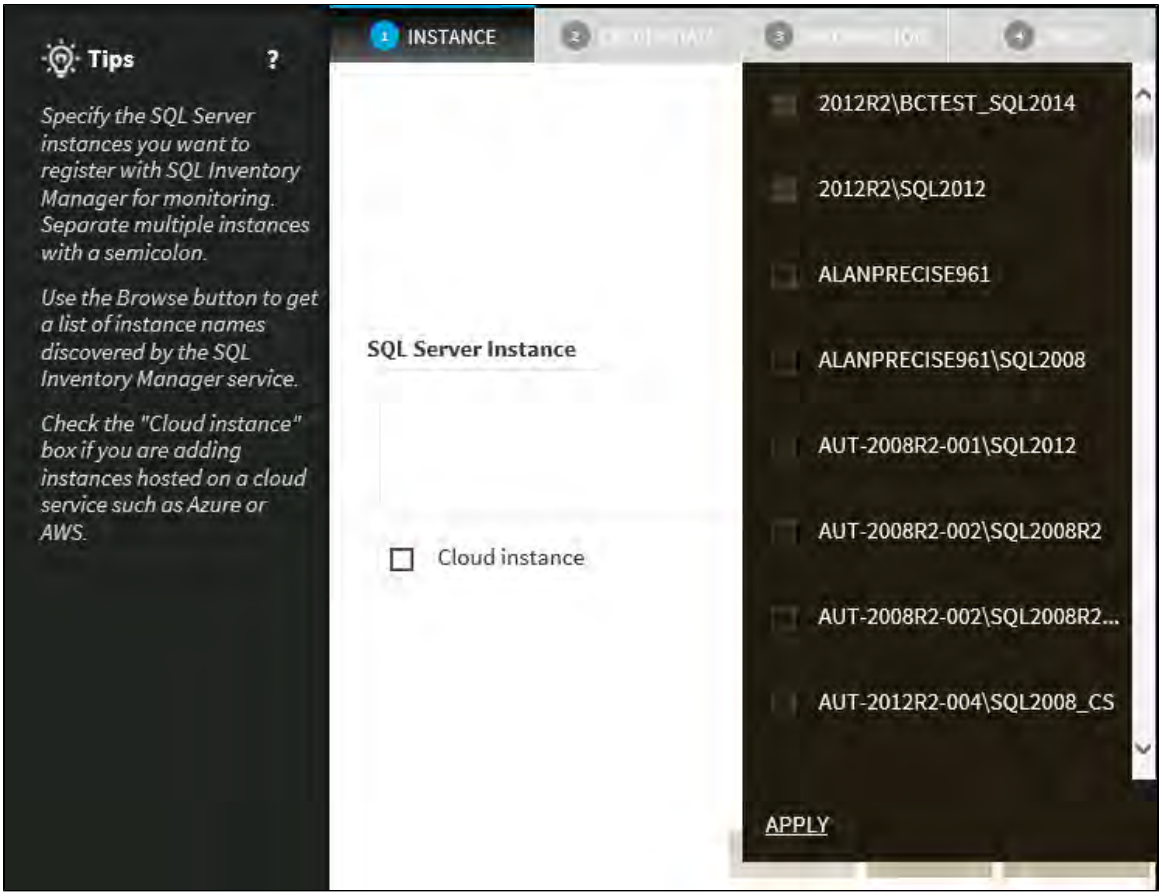
To add an instance

1. Type the name of instance or instances you want to register in the **SQL Server Instance** b ox. Use a semicolon to separate multiple instances. Check **Cloud Instance** if you want to search for Cloud-based instances.

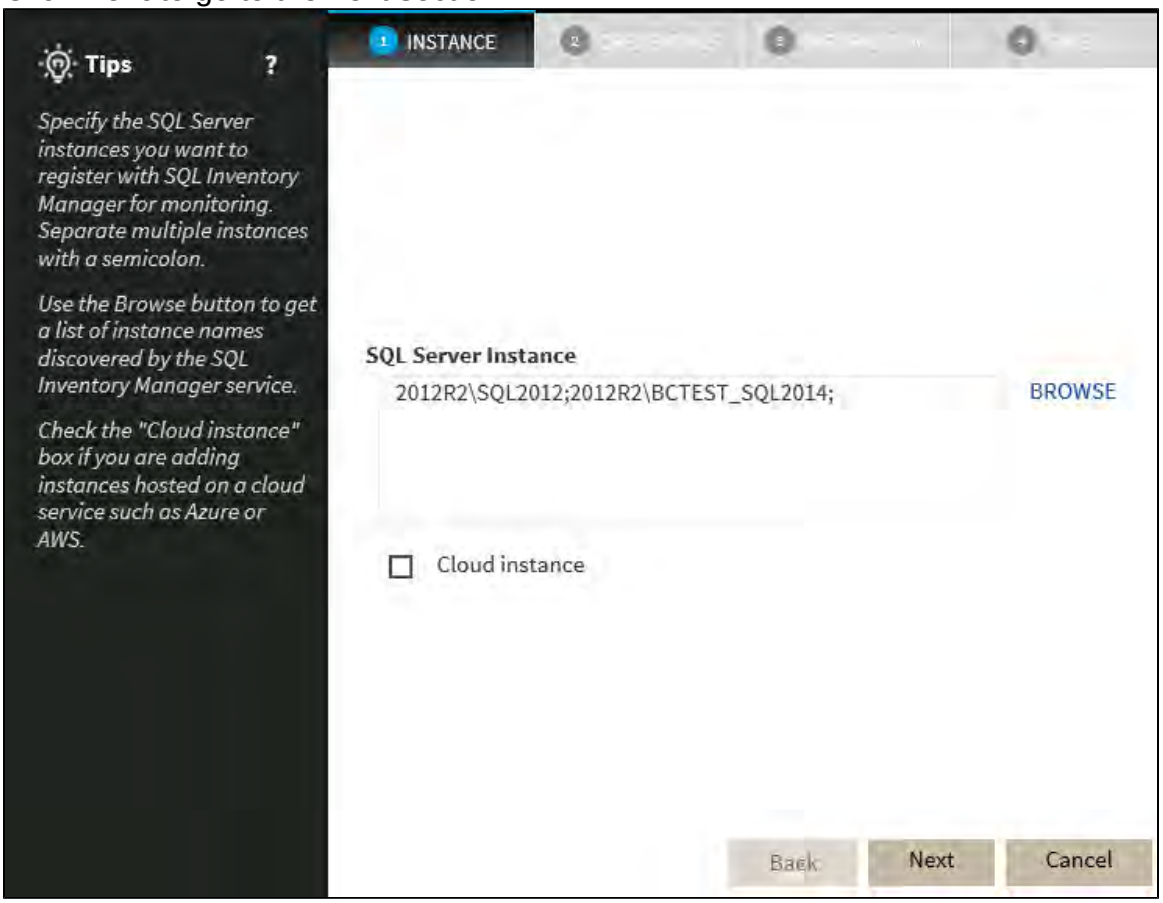
   > When you select instances on the **Discovered** or **Ignored** Instances views, the wizard already adds them to this box.



Use the **Browse** button to access a list of discovered instances that are not yet registered with SQL Inventory Manager. Check the box next to the instances you want to add, and then click **Apply**.



2. Click **Next** to go to the next section.



2. Credentials

SQL Inventory Manager connects to registered SQL Server instances and their host computers to collect information. The collection service requires permissions to connect and gather information using the following types of connections:

- SQL connection credentials to perform queries against registered instances
- WMI connection credentials to gather data from the host computers

Tip

For more information about the minimum required permissions for these accounts, see Required accounts and permissions.

Authorize WMI users and set permissions

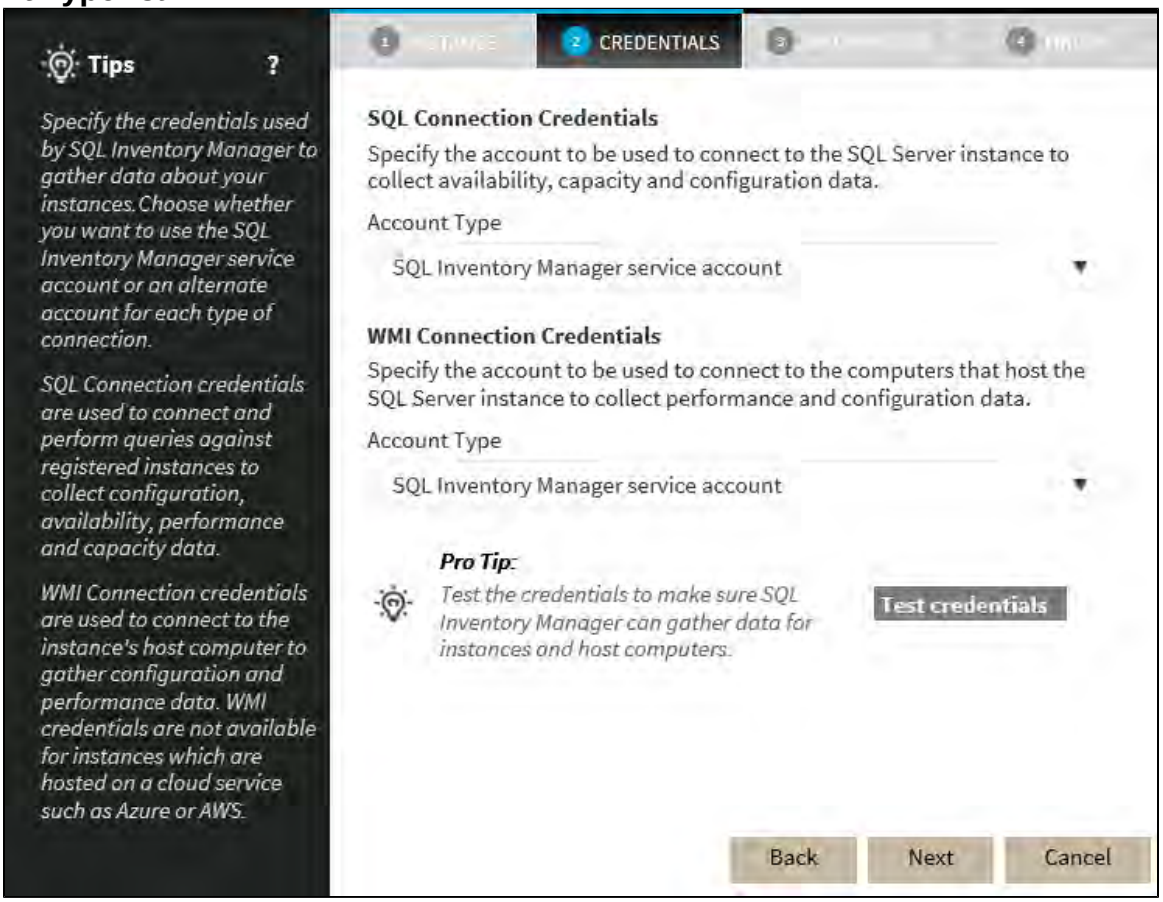
If you want to know how to authorize WMI users and set permissions, see the Microsoft TechNet article, Authorize WMI users and set permissions.

By default, SQL Inventory Manager connects using the SQL Inventory Manager Service Account. However, if you need to provide alternative credentials for any of these two connections, you can choose from the respective options on each section.

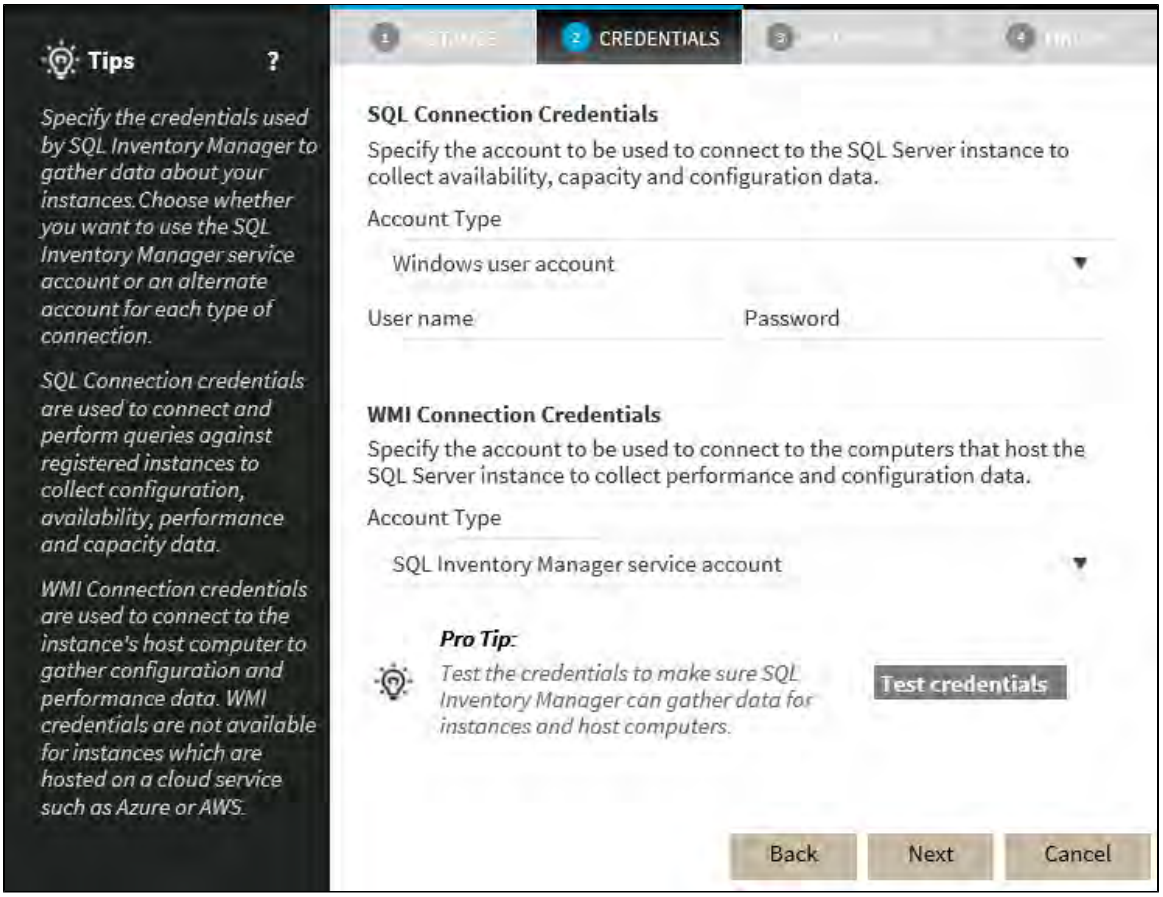
SQL Connection Credentials

- Specify the type of account that you want to use to access your SQL Server instance and collect information. If you do not want to use the **SQL Inventory Manager service**

account, select a **Windows user account** or **SQL Server login account** from the **Account Type** list.



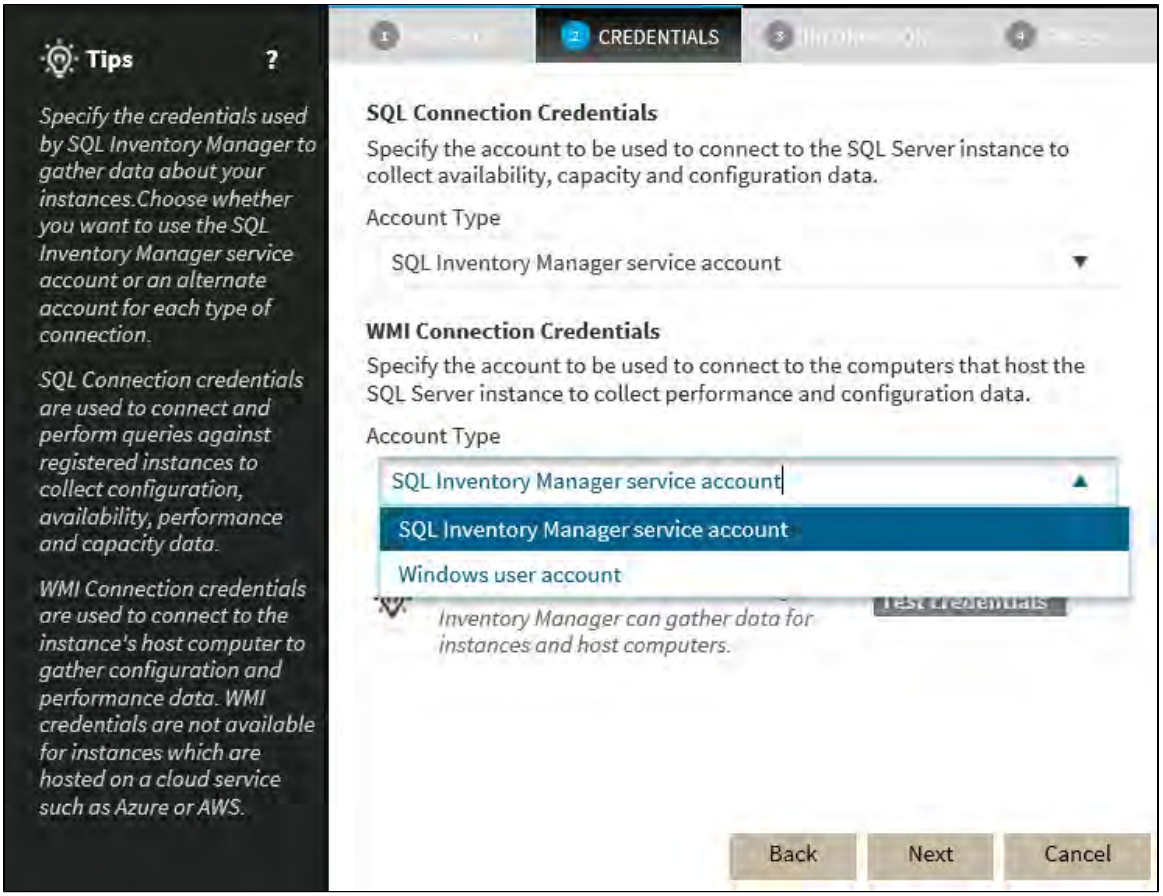
- ***If you select a Windows user account or SQL Server login account*** , type the associated user name and password. SQL Inventory Manager uses this account for SQL queries to gather availability and configuration data.



- You can test the correctness of your credentials by clicking **Test Credentials**.

WMI Connection Credentials

- On this section, you can choose to use the **SQL Inventory Manager service account** or a **Windows user account** by selecting either from the **Account Type** list.



- If you choose to use a **Windows user account**, type the respective user name and password. This account allows you to access Windows configuration data of the computer that hosts the registered instance.

> IDERA recommends that you use the **Test Credentials** option to verify that SQL Inventory Manager can successfully monitor the newly registered instances.

3. Information

On this section you can specify additional information for your instances like **Owner**, **Location**, **Comments**, and **Tags**.

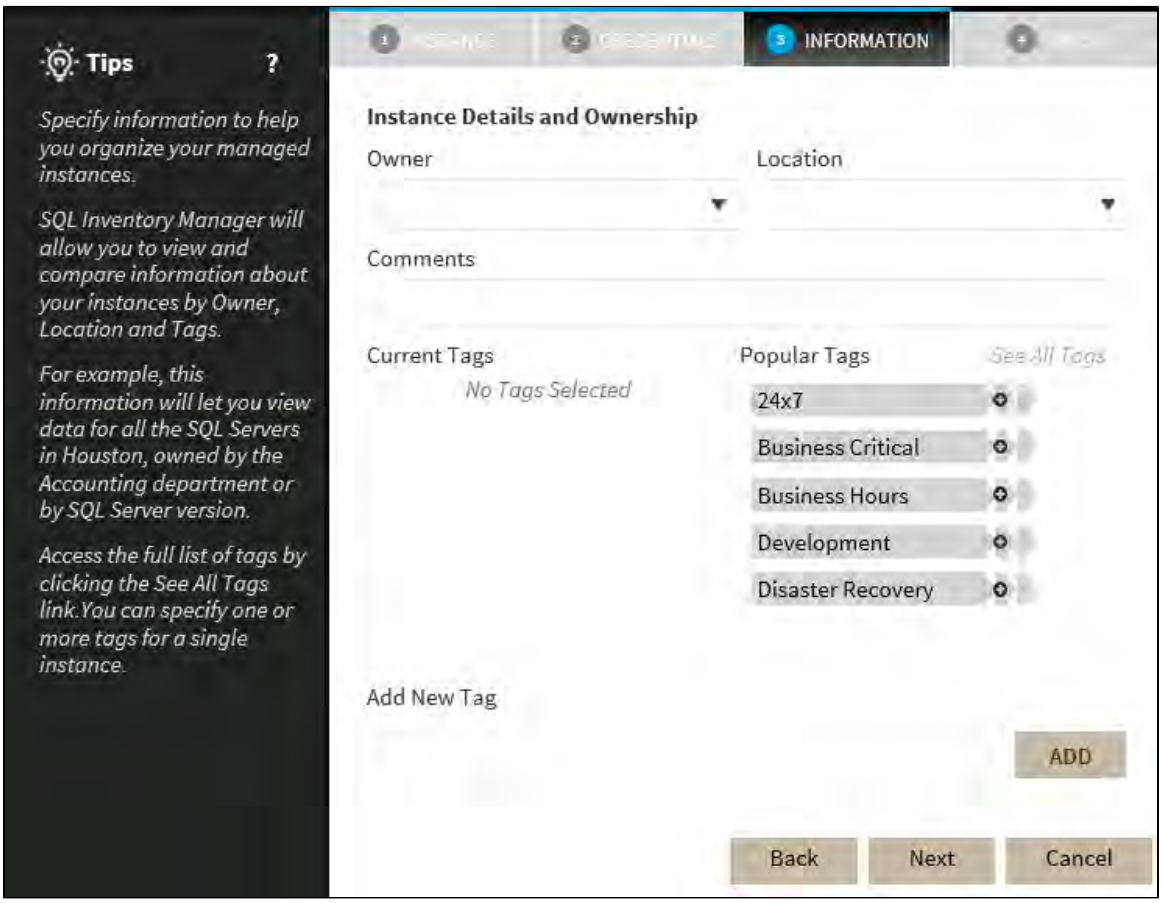
Although none of these fields are required, Owner, Location, Comments, and Tags provide a powerful method for grouping instances and databases to help you organize your resources. Use these options to view information such as database counts, size, or activity, grouped by these fields.

Use the **Owner** and **Location** drop-down lists to access the available options.

To add tags to an instance, you can do one of the following:

- Click any of the suggested **Popular Tags** on the right side of the window. The tag appears now on **Current Tags** on the left.
- You can click **See All Tags** on the top right section to display all available tags.
- If you want to **Add a New Tag**, type the name in the bottom box, and then click **ADD**. The

new tag is added to the **Current Tags** list.



- The tag name must begin with an upper or lowercase alphanumerical character.
- Your tag name must have a maximum length of 20 characters.
- Only the following special characters are valid for tags: ! # @ ( ) ' . : - _ and embedded spaces.

Refer to the Managing tags section for more guidance on how to add, view, edit, or delete tags.

4. Finish

On this section, you can review your Instance Registration Details such as: instance name, SQL Connection Credentials, WMI Connection Credentials, Owner, Location, Comments, and Tags.

To change any of these registration details you can do one of the following:

- You can click any of the title sections (INSTANCE, CREDENTIALS or INFORMATION) and go directly to the place where you need to make the changes.
- You can click **PREV** to go back to the previous sections until you find the place where you need to make changes.

After you review your registration details click **FINISH**. IDERA SQL Inventory Manager begins to

collect instances information after a few minutes of their registration and will continuously collect availability, performance, and configuration information from them and their host computers.

Tip

After registration, you can still change credentials, tags, and information settings on the **Edit Properties** option. Refer to Editing instance properties for more information.

About collection intervals

Collection intervals are predefined. You can see more information about collection frequency on the What Health Checks are available in SQL Inventory Manager? section.

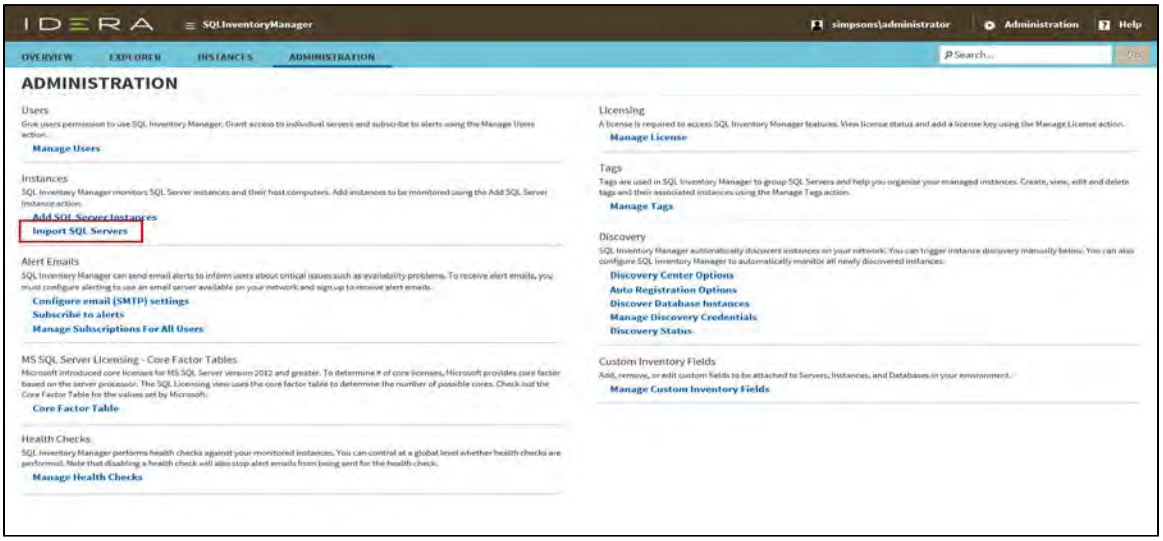
You can also force data collection for an instance by selecting **Refresh Data** on the **Instance details** view. For more information, refer to Viewing instance details.

IDERA SQL Inventory Manager lets you discover and visualize your SQL Server environment. Learn more > >

IDERA Website	Products	Purchase	Support	Community	About Us	Resources	Legal

How to import SQL Server instances

IDERA SQL Inventory Manager constantly discovers SQL Server instances so you can select those ones that you want to monitor. When you open the Add SQL Sever Instance wizard, you can choose the ones you want to register with SQL Inventory Manager; however, you can also import a list of instances from your computer. Go to the **Administration** tab, on the **Instances** se ction you can find the option **Import SQL Servers**. Use this option to import a .csv file from your computer.



To import a file:

1. Click **Upload** to choose a .csv file from your computer.
   IDERA SQL Inventory Manager displays the instances from your uploaded .csv file.
2. Select those instances that you want to import, and then click **Import**.

> ⚠
>
> **CSV files**
>
> Keep in mind that the .csv files you use to import must have only the names of the instances.

> After you import the instances, you can use the bulk options available on the Managed Instances view to set the credentials for monitoring them, as well as editing their owners, locations, comments, and tags.

IDERA SQL Inventory Manager lets you discover and visualize your SQL Server environment. Learn more > >

IDERA Website	Products	Purchase	Support	Community	About Us	Resources	Legal

Discovering new instances

IDERA SQL Inventory Manager continuously searches your network to find new SQL Server instances. To see newly -discovered instances, go to the **Discovered** option on the **Instances** ta b. IDERA SQL Inventory Manager shows you a list of those instances not monitored in your environment yet. From this view you can add, ignore instances, access the auto registration options, launch the discovery job, and export reports.

Available actions

Auto Registration Options

Use this option to enable the automatic registration of newly-discovered SQL Server instances. By clicking this option, IDERA SQL Inventory Manager opens a dialog window that allows you to specify which SQL Server editions you want to exclude from auto registration.

Auto registration only applies to newly-discovered instances and does not affect instances discovered before the option is enabled. IDERA SQL Inventory Manager does not register more instances than you have available licenses.

Discover Database Instances

Use this option to start the discovering database instances job. Options allow you to select whether you want to include a browser scan and/or ODBC scan. Note that this process may take a long time to complete.

Adding instances

If you want to monitor some of these instances, click the respective checkboxes next to the instances you want to add, and then click **Add SQL Server Instance** on the actions bar options.

SQL Inventory Manager opens the wizard for adding new SQL Server instances, and automatically adds the names of the instances you selected before. For more information on how to register SQL Server instances, go to Adding SQL Server instances.

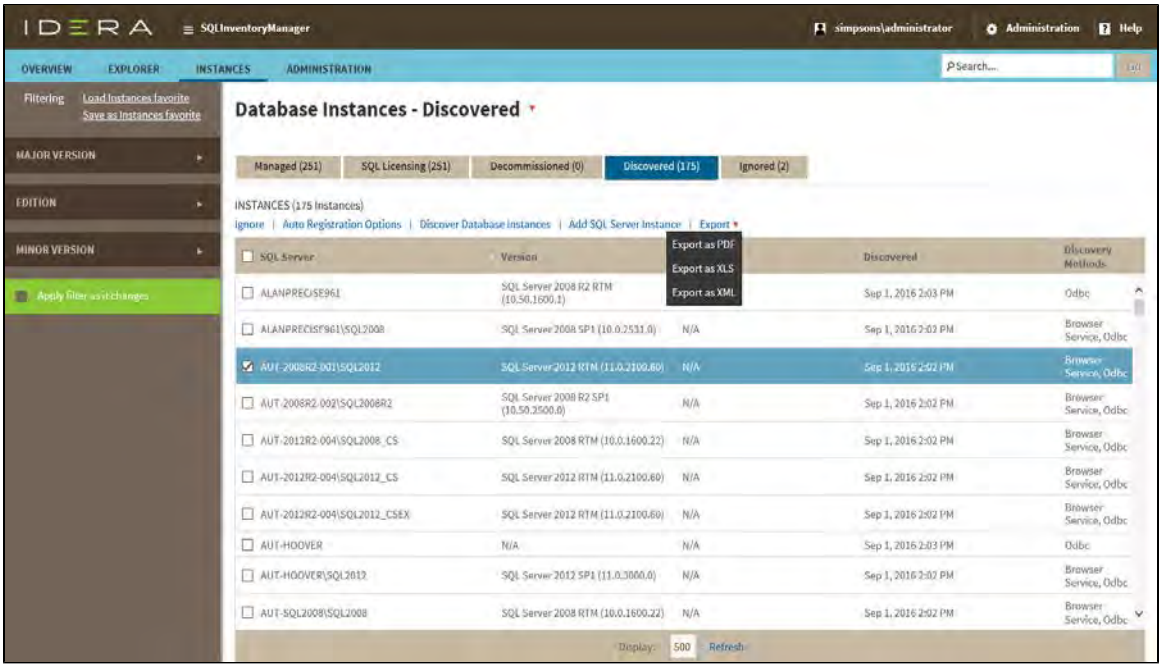
Export reports

If you want to export the information displayed on the Discovered Instances view, go to the **Expo rt** option, located on the action items bar, and select your preferred format (**PDF**, **XLS** or **XML**) for exporting.

Ignoring instances

*The **Ignore** option appears in the action items bar once you select one or more instances in the list.* You can choose to ignore any of the discovered instances. Select the instance(s) you want to ignore, and then click **Ignore** located on the action items bar of this window.

IDERA SQL Inventory Manager no longer shows the ignored instances on the **Discovered** view but adds them to the **Ignored** view.



Available filters

On the left side of the Discovered Instances view, you have a number of filtering options.

Click the down arrow to expand your options, and then check the box(es) you want to use as a filter. Use **Apply filter as it changes** if you want to see the list changes based on your selected criteria.

Other available filtering options include:

- **Load Instances favorite**. Use a saved "favorite" filter set to view the Discovered Instances

list.

- **Save as Instances favorite**. Save the current filter set as a "favorite" to use again.

Tip

IDERA SQL Inventory Manager displays the filters you select on the top section of the Discovered Instances view under **Filtered by**. You can deselect filters from this section.

Access from the Overview

To access the Discovered Instances view, you can also click **New Instances** on the right sidebar of the overview. For more information, go to Viewing information on the SQL Inventory Manager Overview.

Manage your Discovery Options

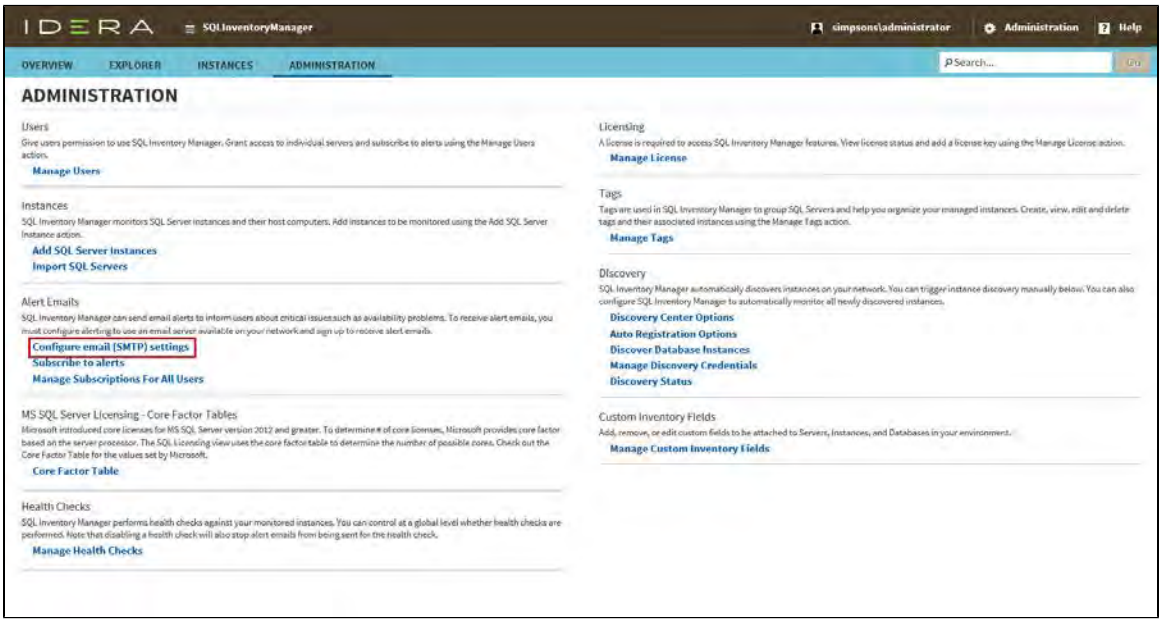
If you want to configure the discovery job, go to the **Administration** tab and click **Discovery Center Options** on the Discovery section. For more information about configuring discovery options, see How to manage Discovery Center options.

IDERA SQL Inventory Manager lets you discover and visualize your SQL Server environment. Learn more > >

IDERA Website	Products	Purchase	Support	Community	About Us	Resources	Legal

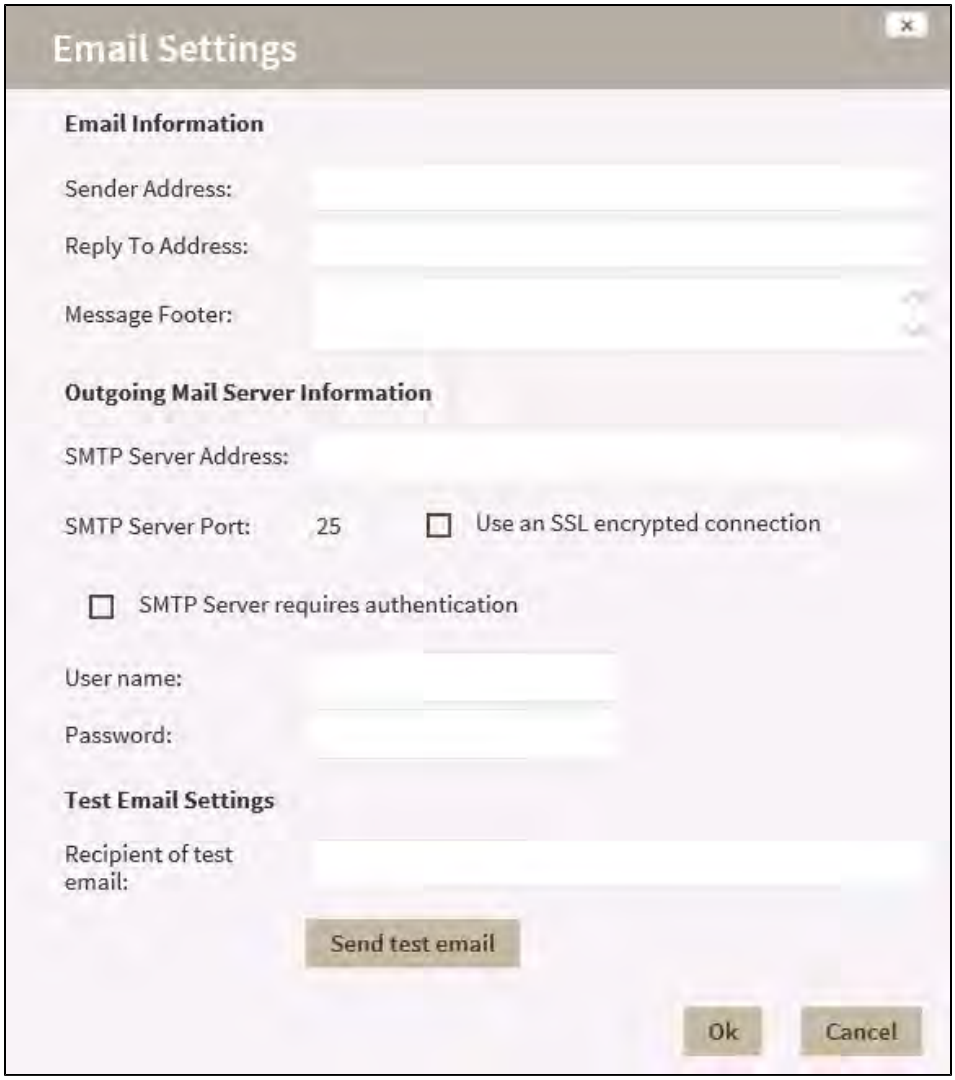
Configuring email settings for alert notifications

IDERA SQL Inventory Manager can send email notifications for warning or critical conditions from your environment. To access this option, go to the Administration tab, and then click **Configure email (SMTP) settings**.



The Email Settings dialog box offers:

- Email Information
- Outgoing Mail Server Information
- Test Email Settings



Email Information

Sender Address

Enter the email address that IDERA SQL Inventory Manager will use as the sender of the emails notifications.

Reply To Address

You must specify a reply-to email address to receive replies from emails.

Message Footer

Enter the text that you want to appear in the footer of notifications.

Outgoing Mail Server Information

In order to send email notifications, you must specify the settings of an email server you want to use. You need to provide the following information:

SMTP Server Address

Enter the name or Internet Protocol (IP) address of your SMTP mail server.

SMTP Server Port

Enter the IP port that the SMTP mail server uses. The default SMTP port is 25.

Use an SSL encrypted connection

Select this check box to use an SSL encrypted connection to connect to the email server.

SMTP Server authentication

Select this checkbox if your SMTP server requires authentication, specify then a valid user name and password to access the email server.

Test Email Settings

You can use this section to test your email settings. For this purpose, enter the **Recipient of the test email**, and then click **Send test email**. IDERA SQL Inventory Manager sends a test email to the recipient you specify. You can verify this test email in the respective recipient account.

After you configure your email settings, you can subscribe to alerts. For more information about subscribing to alerts, see Subscribing to Alerts.

Manage users

From the **Administration** tab, you can decide which users receive alerts. For more information about this feature, see Managing subscriptions for all users.

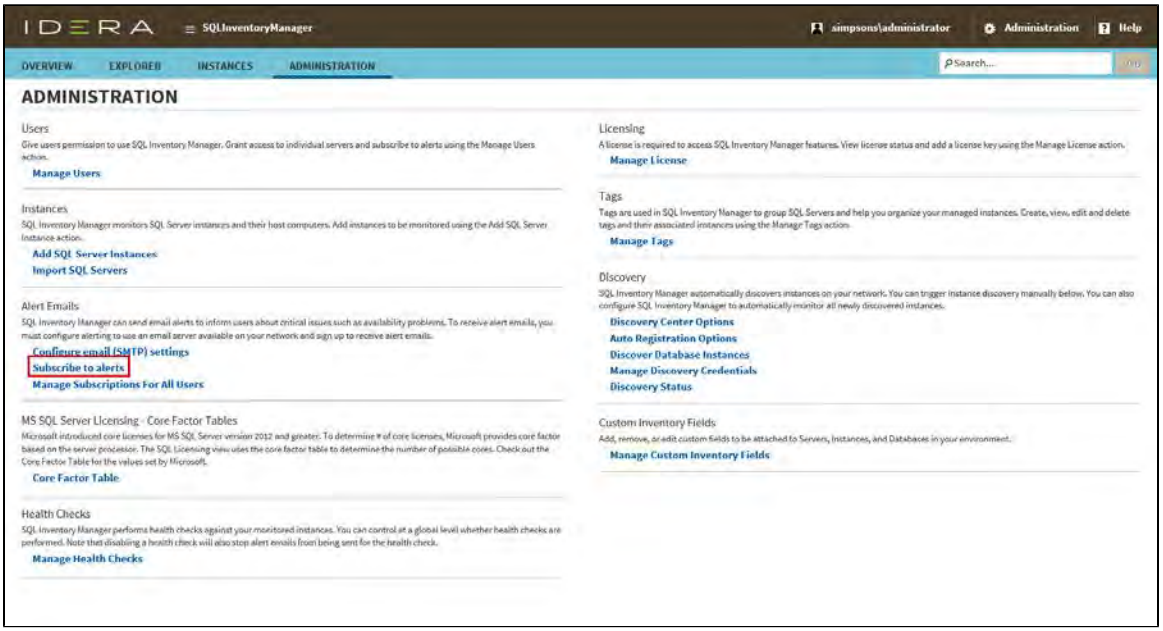
IDERA SQL Inventory Manager lets you discover and visualize your SQL Server environment. Learn more > >

IDERA Website	Products	Purchase	Support	Community	About Us	Resources	Legal

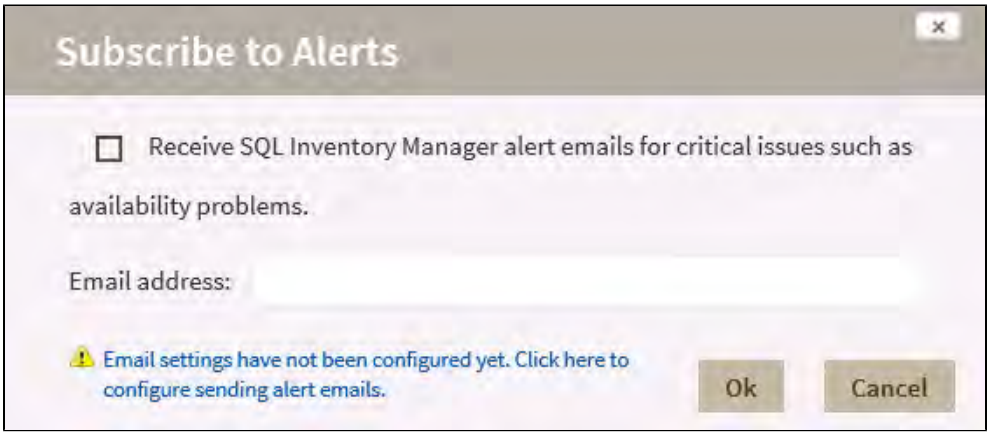
Subscribing to Alerts

IDERA SQL Inventory Manager can send email notifications for warning or critical conditions from your environment, in order to receive these notifications you have to subscribe to alerts.

To subscribe, go to the **Administration** tab, and in the **Alert Emails** section, click **Subscribe to alerts**.



On the **Subscribe to Alerts** window, check the respective box and type the email address where you want to receive these notifications.



Note

If your email settings are not configured, IDERA SQL Inventory Manager displays **Email settings have not been configured yet. Click here to configure sending alert emails**. Click this option and fill the required fields. For more information about configuring settings, go to Configuring email settings for alert notifications.

Manage users

You can also manage your subscriptions from the following sections:

- Manage Users.
- Manage Subscriptions For All Users.

IDERA SQL Inventory Manager lets you discover and visualize your SQL Server environment. Learn more > >

IDERA Website	Products	Purchase	Support	Community	About Us	Resources	Legal

Managing tags

Tags help you group or organize your instances and databases for better management. Create and apply a tag such as "Disaster Recovery" to identify all your registered instances and databases that are vital to your disaster recovery plan, and have quick access to views and details from this group.

The following types of tags are available in this product:

- **Global tags**. Allow you to use the same tag across all IDERA SQL products integrated with IDERA Dashboard. Global tags are created in IDERA Dashboard or are imported from another IDERA product and made into a global tag through IDERA Dashboard.
- **Local tags**. Available only in the product in which they are created unless imported into IDERA Dashboard and converted to a global tag.

When you register an instance in an IDERA SQL product, you are given the option to associate that instance to an existing tag, or to create a new tag. You cannot assign tags to databases when adding an instance, but you can make this association when viewing instance details or database details.

Options available for tags include:

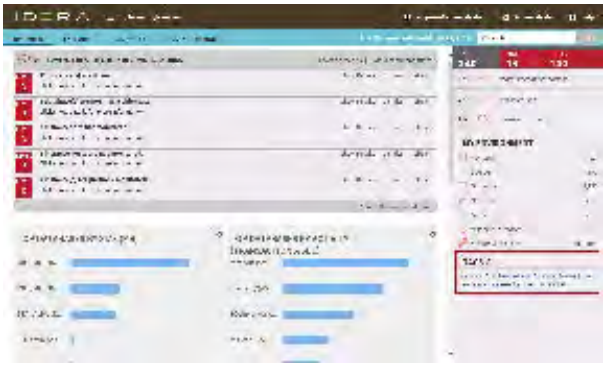
- Managing tags in IDERA Dashboard
- Manage tags for a single instance
- Bulk edit tags for several instances

Managing local tags

Local tags, available within a single IDERA product, are available by using one of the following paths to access the Manage Tags window:

- **Overview**. Click the pencil icon in the Tags section of the right sidebar.
- **Administration** > **Manage Tags**.

Below you can see the respective tabs and sections where you can find the **Manage Tags** option . Click the image to view full size.



In the Manage Tags window you can:

- View the number of instances and databases associated with a tag
- Add new tags
- Edit the list of instances and databases associated with a tag

- Delete tags

> **Tip**
>
> On the Manage Tags window, click the tag name to quickly access the Edit Tag dialog for that tag.

Add a new tag

Use the following steps to add a new tag.

1. In the Manage Tags window, click **Add**. IDERA SQL Inventory Manager opens the Add Tag window.
2. Type the name of the new tag you wish to add, or type several names separating them with a semicolon. Below the **Tag** field, IDERA SQL Inventory Manager displays a list of registered instances and databases in your environment.
3. Select the checkbox(es) for each instance and database you want to add to this tag, and then click **SAVE**.

Warning

- The tag name must begin with an upper or lowercase alphanumeric character.
- Your tag name must have a maximum length of 20 characters.

Edit a tag

Editing a tag lets you rename the tag or change which instances or databases are associated with the tag.

To edit a tag, select the checkbox next to the tag you want to edit, and then click **Edit**. You can also access this option by clicking directly on the tag name. Note that you can only edit one tag at a time.

Make the appropriate changes, and then click **SAVE**.

Delete Tags

Use the following steps to delete one or more tags.

1. In the Manage Tags window, select the checkbox next to the tag(s) you want to delete, and then click **Delete**. IDERA SQL Inventory Manager displays a warning message that requires a confirmation whether you want to delete the selection.

2. Click **Yes**. IDERA SQL Inventory Manager deletes the tag(s) and users can no longer use those tags. ***If you did not mean to delete the selected tags*** , click **No**.

⚠ When an instance is deleted, the mappings to its tags are also deleted, but not the tags because they may be used for other instances

IDERA SQL Inventory Manager lets you discover and visualize your SQL Server environment. Learn more > >

IDERA Website	Products	Purchase	Support	Community	About Us	Resources	Legal

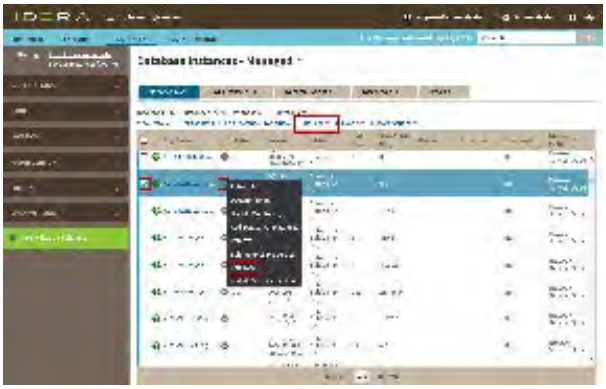
Manage tags for a single instance

IDERA SQL Inventory Manager allows you to manage tags for a specific instance. When you access this option you can choose which tags you want to add or delete for the respective instance.

If you want to edit tags for a single instance, use one of the following options in IDERA SQL Inventory Manager:

- **Overview**. In the Instances section, click the name of the instance you want to tag. In the Instance Details view, click the pencil icon on the Tags section of the right sidebar.
- **Instances** > **Managed** view. Select your instance, and then click **Edit Tags** on the action items bar *OR* click the gear icon next to the instance, and then select **Edit Tags**.
- **Instances** > **SQL Licensing** view. Select your instance, and then click **Edit Tags** on the action items bar *OR* click the gear icon next to the instance, and then select **Edit Tags**.

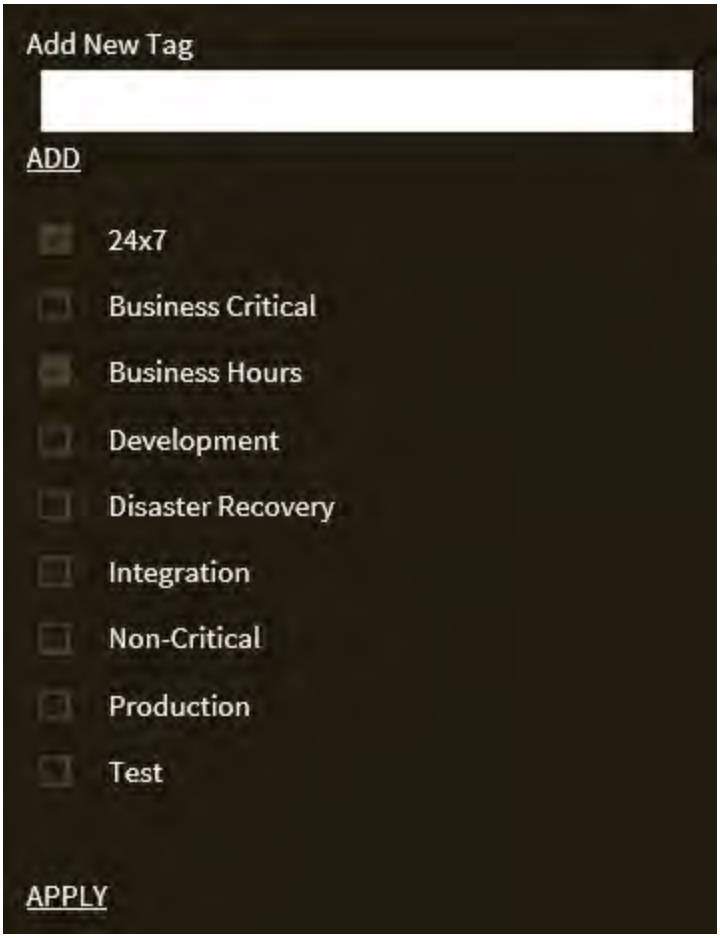
Below you can see the sections where you can access the option for managing tags for a single instance:



IDERA SQL Inventory Manager opens a window for managing the instance tags. On this window you can:

- Type the name of a new tag, and then click **ADD**. SQL Inventory Manager adds the new tag to the list. You can add several tags at once by separating each name with a semicolon (;).
- Check or uncheck those tags you want to add or remove for this instance. Previously-added and newly-added tags are checked by default.

When you finish making your edits, click **APPLY**.



Tip

You can also remove tags by clicking the tag name on the sidebar without opening the Manage Tags window.

Warning

- The tag name must begin with an upper or lowercase alphanumeric character.
- Your tag name must have a maximum length of 20 characters.

IDERA SQL Inventory Manager lets you discover and visualize your SQL Server environment. Learn more > >

IDERA Website	Products	Purchase	Support	Community	About Us	Resources	Legal

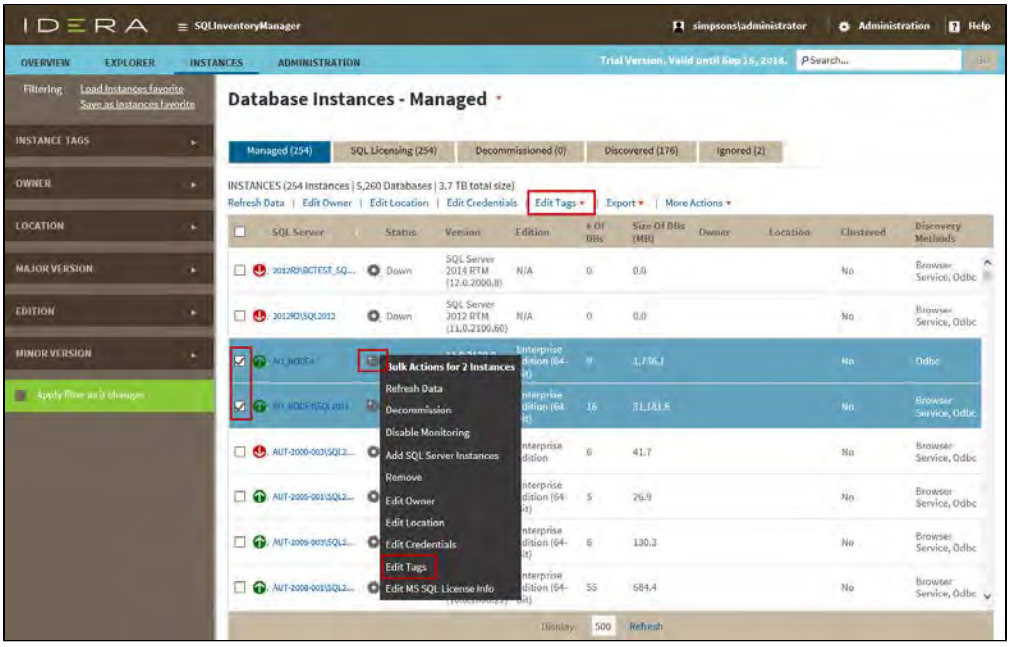
Bulk edit tags for several instances

IDERA SQL Inventory Manager allows you to bulk edit several properties on your registered instances so you can easily apply changes on your environment. Editing tags is one of the options for performing bulk actions on your instances. You can choose to apply a new tag to a group of instances, for example, or delete a tag from selected instances.

If you want to bulk edit tags for more than one instance, use one of the following options in IDERA SQL Inventory Manager:

- **Instances** > **Managed** view. Select the instances, and then click **Edit Tags** on the action items bar *OR* click the gear icon next to any of the selected instances, and then select **Edit Tags**.
- **Instances** > **SQL Licensing** view. Select the instances, and then click **Edit Tags** on the action items bar *OR* click the gear icon next to any of the selected instances, and then select **Edit Tags**.

Below you can see the section where you can perform this option using the Managed Instances view for an example:

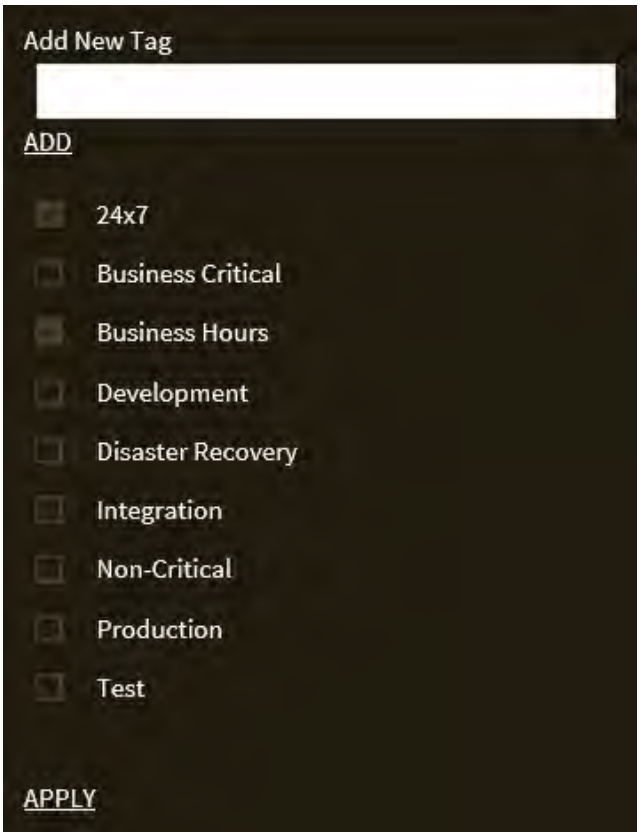


IDERA SQL Inventory Manager opens a window for bulk managing the tags. Tags that are common for all selected instances include a checked box. Tags that belong to any or several selected instances include a shadowed box.

On this window you can:

- Type the name of a new tag, and then click **ADD**. IDERA SQL Inventory Manager adds the new tag to the list. You can add several tags at once by separating each name with a semicolon (;).
- Check or uncheck those tags you want to add or remove for all of the instances in this edit.

When you finish making your edits, click **APPLY.**



Warning

- The tag name must begin with an upper or lowercase alphanumeric character.
- Your tag name must have a maximum length of 20 characters.

IDERA SQL Inventory Manager lets you discover and visualize your SQL Server environment. Learn more > >

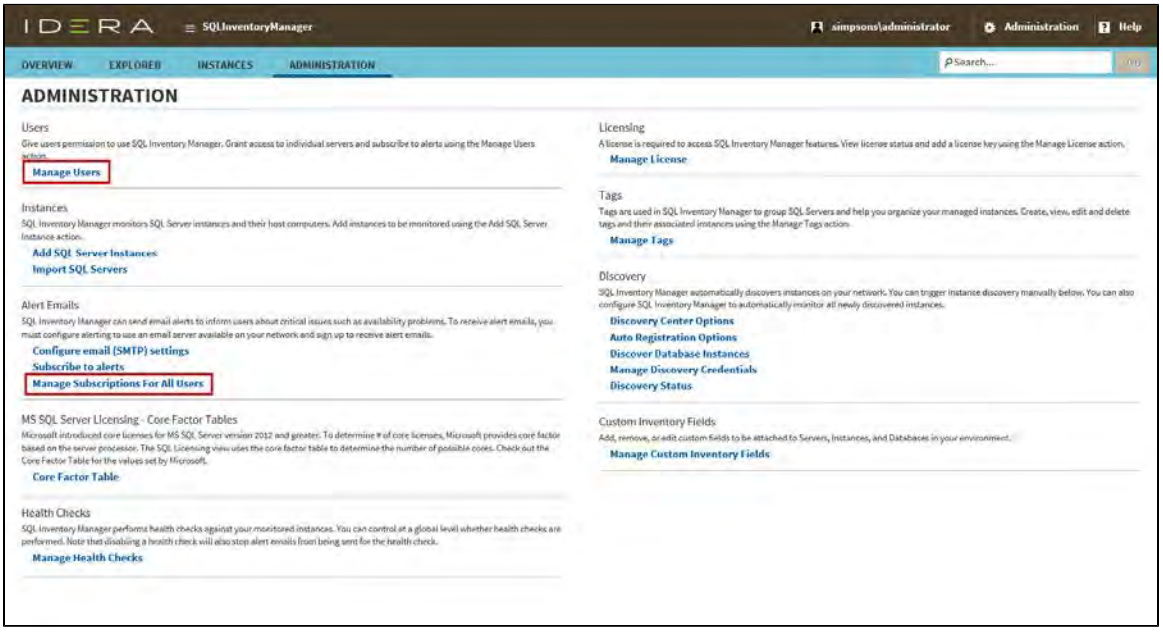
IDERA Website	Products	Purchase	Support	Community	About Us	Resources	Legal

Managing users in SQL Inventory Manager

In order for users to access IDERA SQL Inventory Manager, you need to grant them access. Additionally, if they want to receive alert emails, you have to enable this option for each user and type the email addresses where they will receive these notifications.

To edit user details, such as the account name, product access, account role, alert subscriptions, email address, or instance permissions, go to either of the following options on the IDERA SQL Inventory Manager Administration tab:

- **Users** > **Manage Users**
- **Alert Emails** > **Manage Subscriptions For All Users**

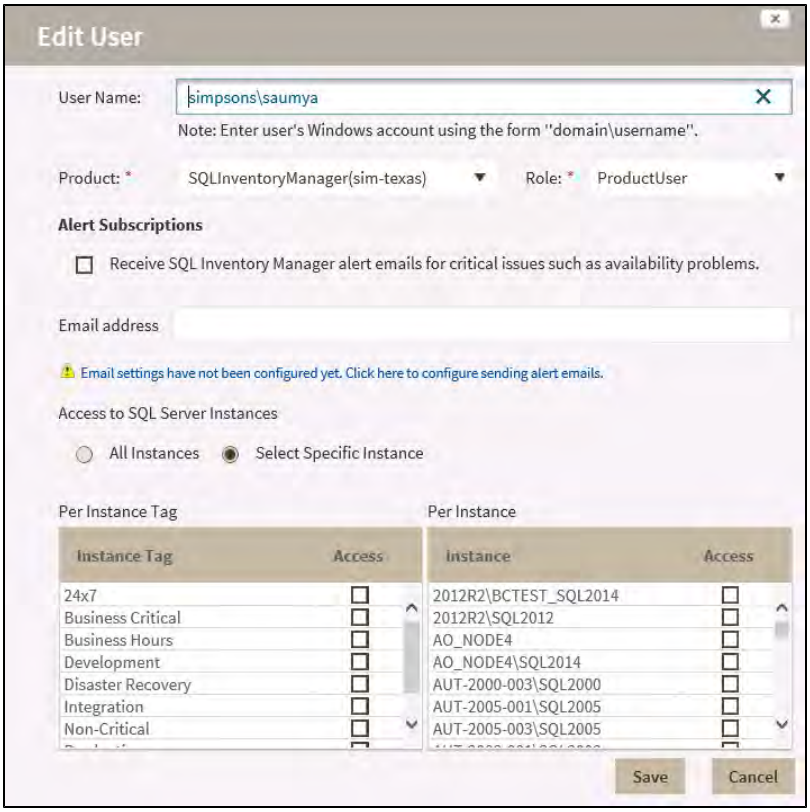


On this window you can see a list of all registered users, their respective email addresses, and whether they are subscribed to alerts.

Edit User

This option allows you to edit the user name, change the role, modify the user's alert subscriptions, and change the email address to where they receive alerts. To edit a user account:

1. Either click the user account name, or check the appropriate box for the user account you want to edit, and then click **Edit User**. IDERA SQL Inventory Manager displays the Edit User dialog.



2. Make the appropriate changes.
3. In the **Access to SQL Server Instances** area, select **All Instances** to allow this account to access all instances including any new instances in your environment. Select **Select Specific Instance**, and IDERA SQL Inventory Manager displays lists of tags and instances available to assign to this user account. Select the items you want to include.
4. Click **SAVE**.

> ⚠ If you have not yet configured your email server settings, IDERA SQL Inventory Manager displays the message **Email settings have not been configured yet. Click here to configure sending alert emails.** Click this option to configure your settings. For more information, go to Configuring your email settings for alert notifications.

IDERA SQL Inventory Manager lets you discover and visualize your SQL Server environment. Learn more > >

IDERA Website	Products	Purchase	Support	Community	About Us	Resources	Legal

Understanding user roles

IDERA common framework provides the functionality to add, edit, and delete users and groups while also managing their roles. SQL Inventory Manager leverages this user role functionality to allow you to easily manage the instance permissions associated with your accounts.

Topics that include steps on managing user accounts and their roles include:

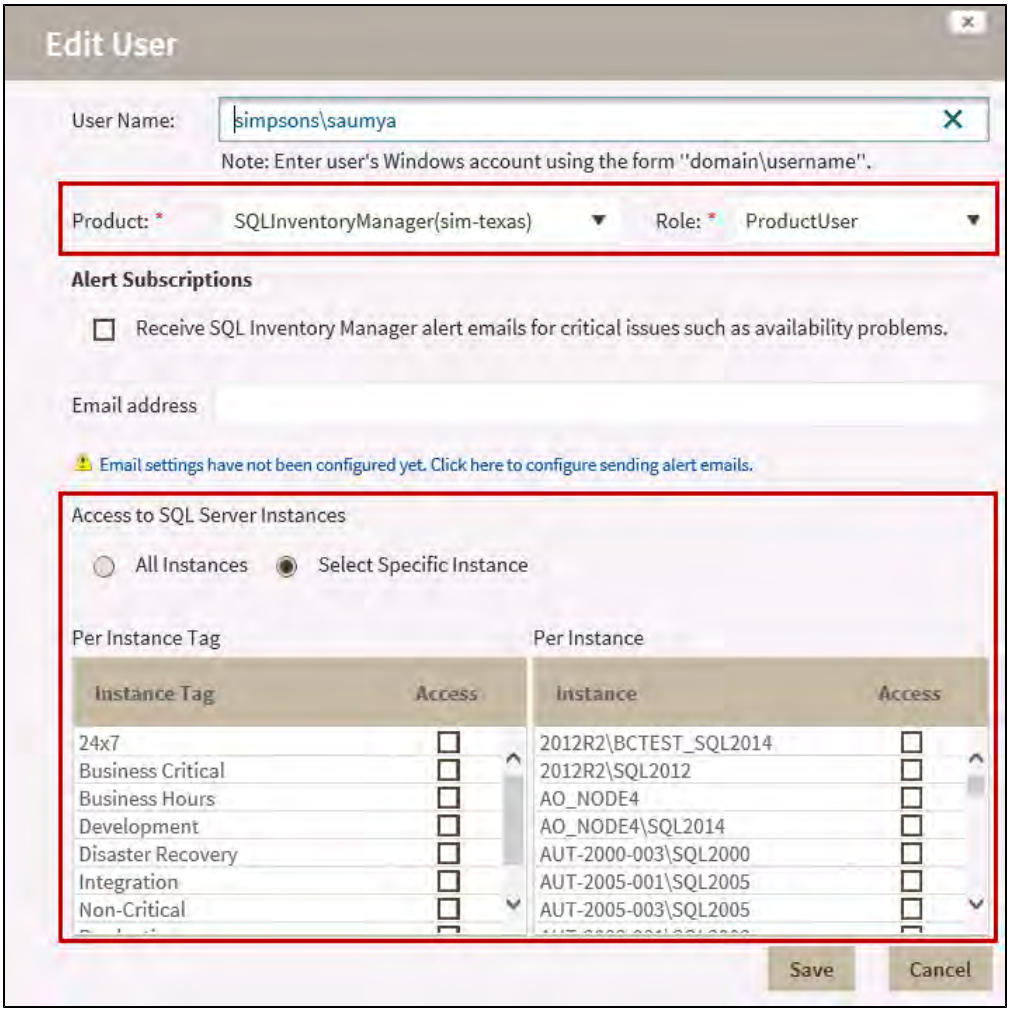
- How to manage users
- Managing users in the IDERA Dashboard
- Managing users in SQL Inventory Manager
- Managing users and their subscriptions
- User role permissions

There are three roles available:

- Administrator
- User
- Guest

The Administrator role has privileges to access all instances. ***If you assign the User or Guest role to a user account*** , IDERA allows you to select whether you want to allow the user to access all SQL Server instances or a select few. Choose the Select Specific Instance option, and SQL Inventory Manager displays the **Per Instance Tag** and **Per Instance** lists, as shown in the following image. Select a tag, and the user has access to view all instances under that tag. Note that you can select a combination of tags and individual instances. Click the tag name to view a list of all instances under that tag.

⚠ Granting permissions through tags applies to instance tags only. A database tag does not grant Guest users access to the host server unless that server also has that tag.



IDERA SQL Inventory Manager lets you discover and visualize your SQL Server environment. Learn more > >

IDERA Website	Products	Purchase	Support	Community	About Us	Resources	Legal

User role permissions

Use the following table as a guide to the available user roles and their permissions.

IDERA SQL Inventory Manager View	Administrator role	User role	Guest role
Overview			
Overview (View)	All instances	Only those instances to which the user has access	Only those instances to which the user has access
Health Check Recommendations (View, export, hide, show details, refresh)	All instances	Only those instances to which the user has access	Only those instances to which the user has access
Health Check Recommendations (Dismiss)	All instances	Only those instances to which the user has access	NOT ALLOWED
SQL Server instances (Add)	ALLOWED	ALLOWED	NOT ALLOWED
Tags displayed in sidebar	All tags	All tags applied to at least one instance to which the user has access	All tags applied to at least one instance to which the user has access
Instance Details view	All instances	Only those instances to which the user has access	Only those instances to which the user has access
Explorer view			
Explorer (View)	All instances	Only those instances to which the user has access	Only those instances to which the user has access
Filtering attributes (Tag/Location/Owner/ Version/etc.)	ALLOWED	All tags applied to at least one instance to which the user has access	All tags applied to at least one instance to which the user has access
Instances view			
Instances list	All instances	Only those instances to which the user has access	Only those instances to which the user has access

Filtering attributes (Tag/Location/Owner/ Version/etc.)	ALLOWED	All tags applied to at least one instance to which the user has access	All tags applied to at least one instance to which the user has access
Instances > **Managed** or **SQL Licensing tab**			
SQL Server instances (Add)	ALLOWED	ALLOWED	NOT ALLOWED
Details (View)	All instances	Only those instances to which the user has access	Only those instances to which the user has access
Refresh Data	All instances	Only those instances to which the user has access	Only those instances to which the user has access
Edit Properties	All instances	Only those instances to which the user has access	NOT ALLOWED
Edit Tags	All instances	Only those instances to which the user has access	NOT ALLOWED
Export	All instances	Only those instances to which the user has access	Only those instances to which the user has access
More Actions > Remove	All instances	Only those instances to which the user has access	NOT ALLOWED
More Actions > Disable Monitoring	All instances	Only those instances to which the user has access	NOT ALLOWED
Instances > **Discovered tab**			
Ignore	ALLOWED	Only those instances to which the user has access	NOT ALLOWED
Auto Registration Options	ALLOWED	NOT ALLOWED	NOT ALLOWED
Discover Instances	ALLOWED	NOT ALLOWED	NOT ALLOWED
Instances > **Ignored tab**			
Move to Discovered	ALLOWED	Only those instances to which the user has access	NOT ALLOWED

Administration view			
Manage Users	ALLOWED		
Add SQL Server Instance	ALLOWED	ALLOWED	NOT ALLOWED
Import SQL Servers	ALLOWED	ALLOWED	NOT ALLOWED
Configure Email (SMTP) Settings	ALLOWED	NOT ALLOWED	NOT ALLOWED
Subscribe to Alerts	ALLOWED	ALLOWED	NOT ALLOWED
Manage Subscriptions for All Users	ALLOWED	NOT ALLOWED	NOT ALLOWED
Manage Health Checks	ALLOWED	NOT ALLOWED	NOT ALLOWED
Manage License	ALLOWED	NOT ALLOWED	NOT ALLOWED
Manage Tags	ALLOWED	NOT ALLOWED	NOT ALLOWED
Manage Discovery Options	ALLOWED	NOT ALLOWED	NOT ALLOWED
Auto Registration Options	ALLOWED	NOT ALLOWED	NOT ALLOWED
Discover Instances	ALLOWED	ALLOWED	NOT ALLOWED

***SQL Inventory Manager** lets you discover and visualize your SQL Server environment. **Learn more** > >*

IDERA Website	Products	Purchase	Support	Community	About Us	Resources	Legal

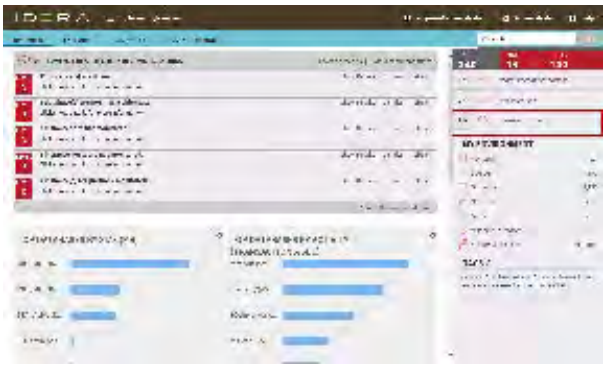
How to manage the Auto Registration Options

If you want to register all SQL Server instances every time new ones are discovered, IDERA SQL Inventory Manager allows you to automatically register them as they are continuously discovered. This option also lets you to choose which SQL Server editions you want to exclude from auto registration.

You can access the Auto Registration Options from the following views:

- **Overview**. Click **Auto-Registration** on the Status sidebar.
- **Instances** view > **Discovered**. Click **Auto Registration Options** on the actions items bar.
- **Administration** view. Click **Auto Registration Options** located on the **Discovery** section.

Below you can see the sections where you can find this option:



IDERA SQL Inventory Manager does not register instances that were discovered before turning on the **Automatic Instance registration** option and does not register more instances than the number available for your license.

The Auto Registration Options window opens. Select **Enable Automatic Registration of newly discovered SQL Server instances**. On this window IDERA SQL Inventory Manager allows you to exclude the following editions:

- Enterprise
- Web
- Business Intelligence
- Developer
- Standard
- Express

Additionally, you can select **Any other version** when you only want the previous options to be taken into account for registration and you want to exclude any other editions.

Choose **Unknown editions** to exclude registering those SQL Server instances that IDERA SQL Inventory Manager cannot connect to.

When you enable this option, IDERA SQL Inventory Manager automatically registers newly discovered instances but it does not assign them owner, location, or any other tags; additionally, they are all registered using IDERA SQL Inventory Manager service credentials. You can later add or change this information individually from the Editing properties window or by editing several instances at once on the **Instances** view (Managed and SQL Licensing views), for more information refer to Managed instances.

Tip

If you want to get the latest discovered instances, you can trigger the instance discovery job by clicking **Discover instances** on the same section

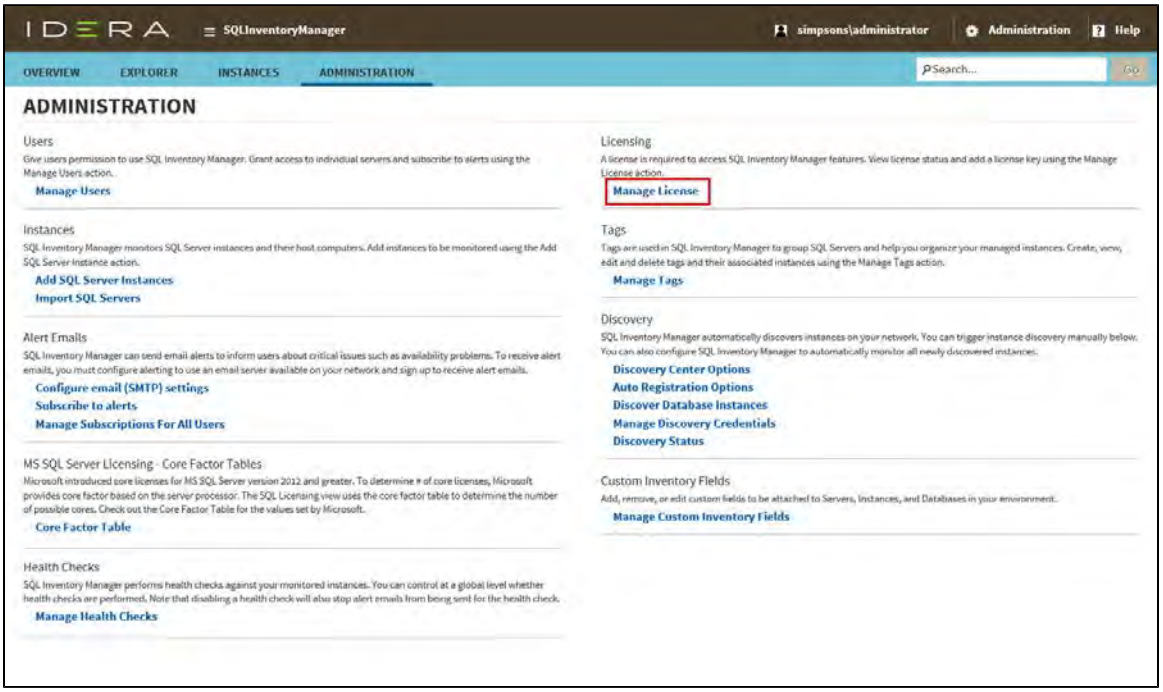
IDERA SQL Inventory Manager lets you discover and visualize your SQL Server environment. Learn more > >

IDERA Website	Products	Purchase	Support	Community	About Us	Resources	Legal

Managing Licenses

A license key is required to access all IDERA SQL Inventory Manager features. This license determines the number of SQL Server instances that you can monitor.

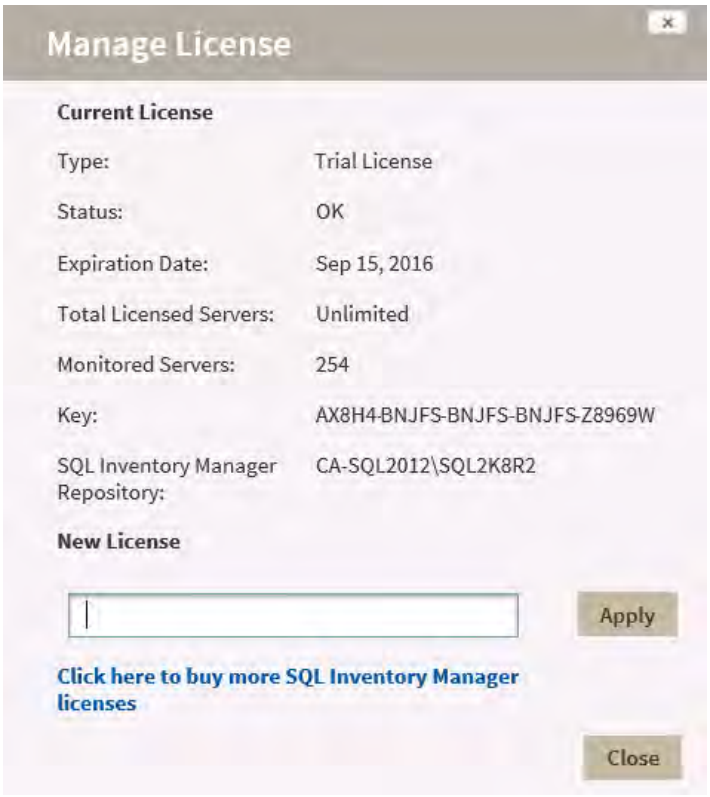
View your license status, add, or buy a new license key using the Manage License action. To access this option, go to the **Administration** tab, and click **Manage License** on the **Licensing** s ection.



IDERA SQL Inventory Manager opens a new window that displays information relevant to your current license such as type of license, status, expiration date, total licensed servers, license key, and IDERA SQL Inventory Manager repository.

If you want to add a new license key, type the key under the **New License** section, and click **App ly**.

If you need to buy another license, go to the IDERA store.



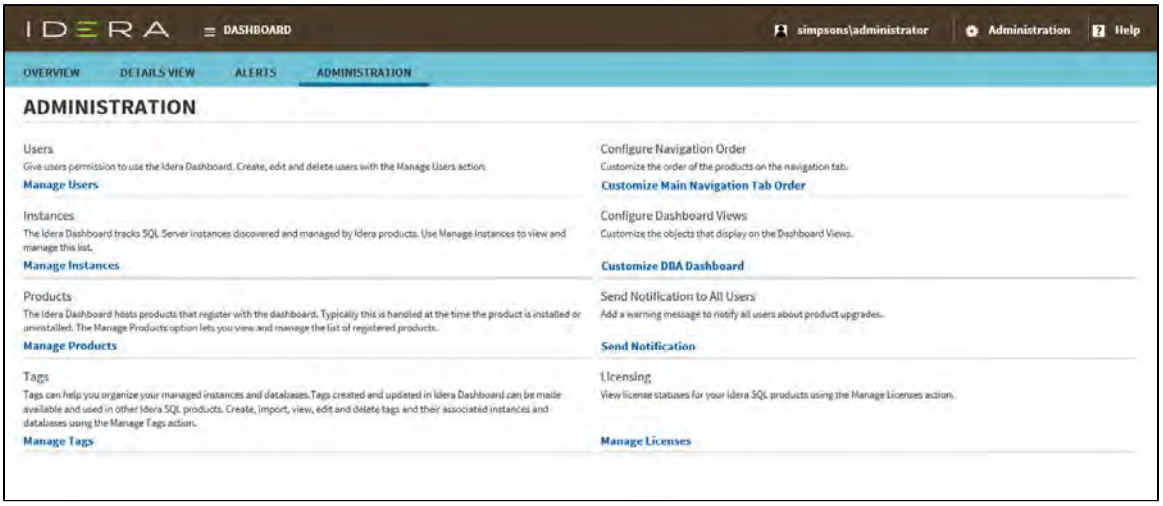
IDERA SQL Inventory Manager lets you discover and visualize your SQL Server environment. Learn more > >

IDERA Website	Products	Purchase	Support	Community	About Us	Resources	Legal

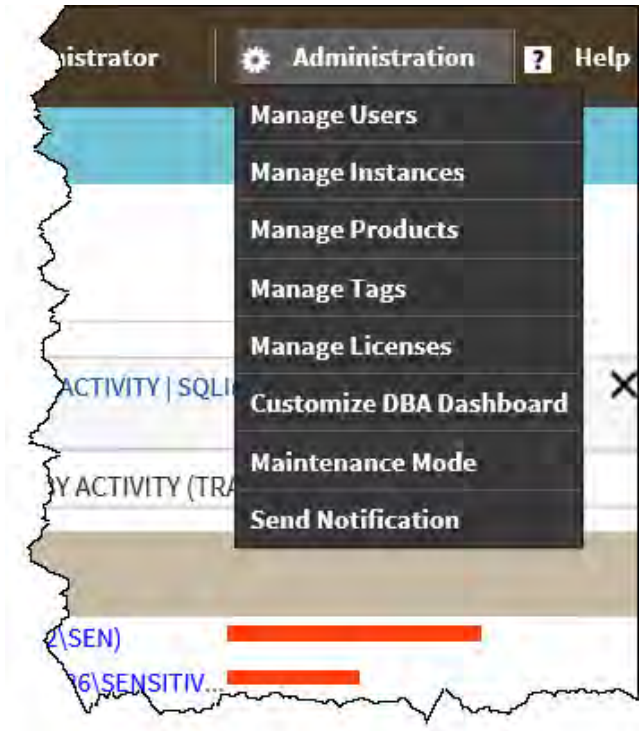
Navigate the IDERA Dashboard web console

The IDERA Dashboard is a a common technology framework designed to support the entire IDERA product suite. The IDERA Dashboard allows users to get an overview of the status of their SQL Server instances and hosted databases all in a consolidated view, while providing users the means to drill into individual product overviews for details. The IDERA Dashboard supports multiple copies of each product installation. Click image to view full size.

In the IDERA Dashboard, all products show a common Administration tab, granted the logged-in user has administrator privileges. Selecting this tab displays the Administration view which hosts a range of options for performing administration-related actions.



The Administration menu item, available at all times while using IDERA Dashboard-associated products, also accesses the same features as the Administration view except for customizing the main navigation tab order. In addition, you can manage Maintenance Mode from the menu.



Available actions in the Administration view of the IDERA Dashboard

The Administration view of the IDERA Dashboard provides a central set of services related to specific actions such as:

- User management
- Instance management
- Product registry
- Product licensing
- Global tag management

For more information on each service and what configuration settings are available, visit each respective section.

IDERA SQL Inventory Manager lets you discover and visualize your SQL Server environment. ***Learn more > >***

IDERA Website	Products	Purchase	Support	Community	About Us	Resources	Legal

Using the SQL Inventory Manager widgets in the IDERA Dashboard

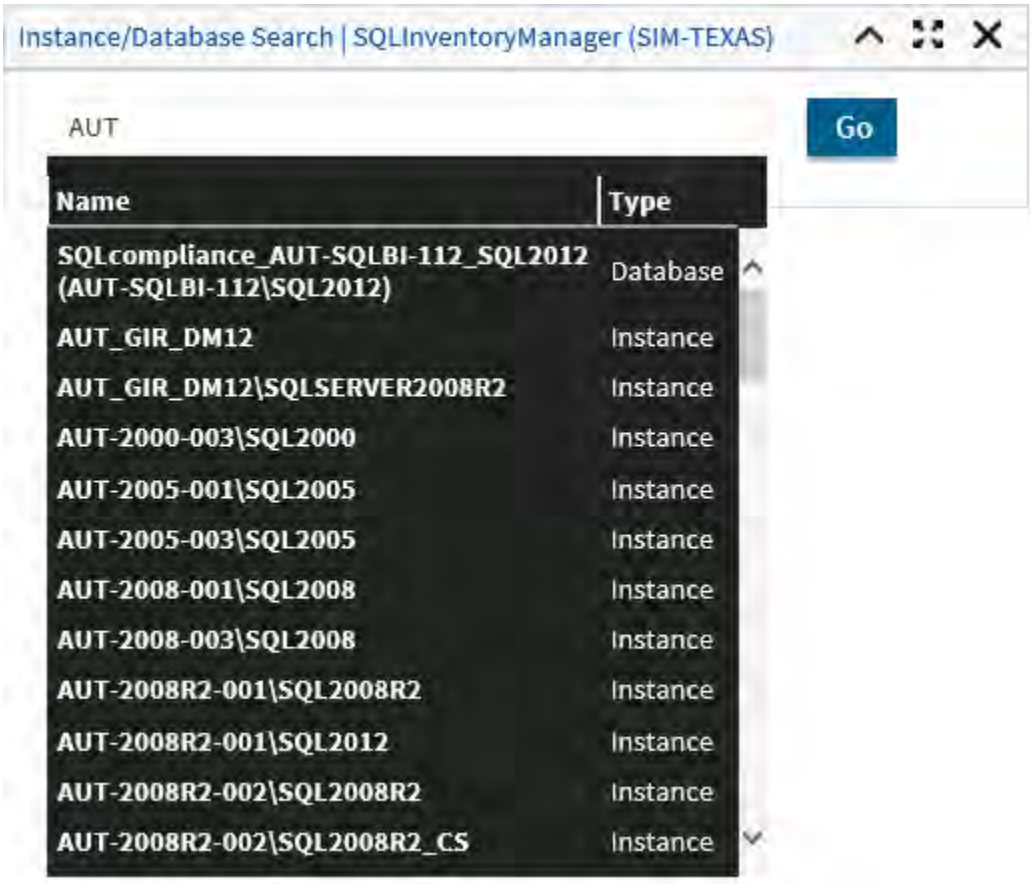
The IDERA Dashboard Overview provides an area for users to quickly view top metrics regarding their monitored SQL Server instances.

By default, the following IDERA SQL Inventory Manager widgets appear on the IDERA Dashboard Overview:

- Instance/Database Search
- SQL Server Licensing
- Tags Cloud
- Top Databases by Activity
- Top Databases by Size

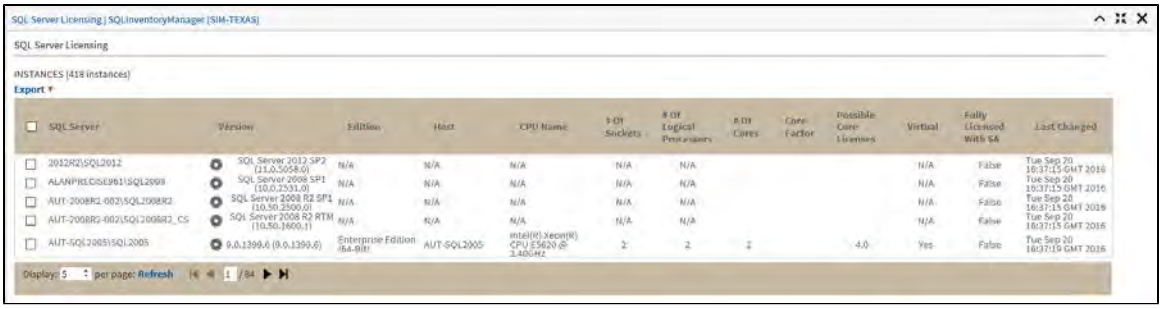
Instance / Database Search

The Instance / Database Search widget allows you to quickly locate an instance or database by typing one or more characters, and then clicking **Go**. IDERA SQL Inventory Manager returns a list of all instances and databases containing the search string. Click the name of the appropriate instance to access the Instance Details page.



SQL Server Licensing widget

The SQL Server Licensing widget is read-only and displays data similar to the SQL Licensing tab of the Instances view.



On the action items bar of the SQL Server Licensing widget, you can find the **Export** option which allows you to choose your preferred format for exporting the information available on this widget. You can export as a **PDF**, **XLS**, or **XML** file.

Tags Cloud widget

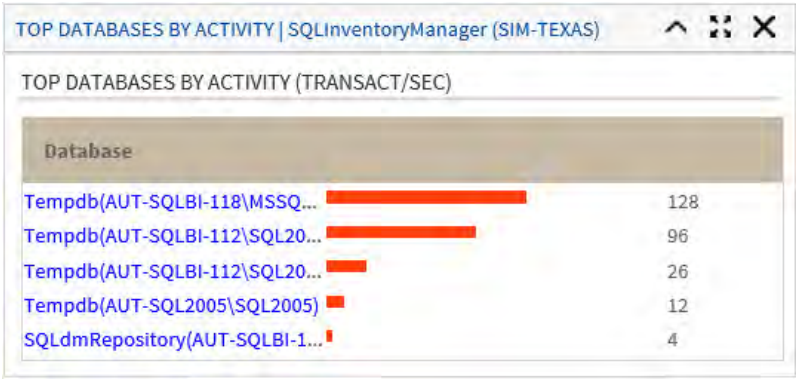
The Tags Cloud widget is similar to the Tags section found in the IDERA SQL Inventory Manager Overview sidebar.

The only tags appearing in the widget have at least one instance to which the logged-in user account has access. When you click a tag in the widget, the system redirects to the Explorer view filtered by the selected tag.

> ⚠ The pencil icon used to access manage tags functionality appears only to users who are logged in as an IDERA SQL Inventory Manager Administrator.

Top Databases by Activity widget

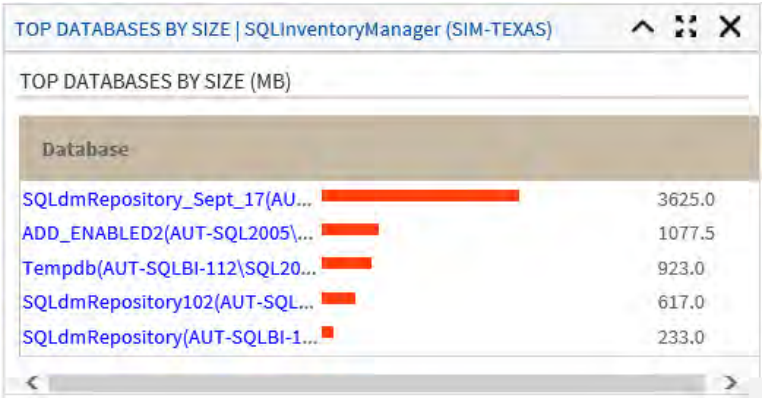
The Top Databases by Activity widget is similar to the Top Databases by Activity graph found in the IDERA SQL Inventory Manager Overview.



When you click an instance name in the widget, the system redirects to the Instance Details view for the selected instance.

Top Databases by Size widget

The Top Databases by Size widget is similar to the Top Databases by Size graph found in the IDERA SQL Inventory Manager Overview.



When you click a database name in the widget, the system redirects to the Instance Details view for the instance on which the selected database resides.

IDERA SQL Inventory Manager lets you discover and visualize your SQL Server environment. Learn more > >

IDERA Website	Products	Purchase	Support	Community	About Us	Resources	Legal

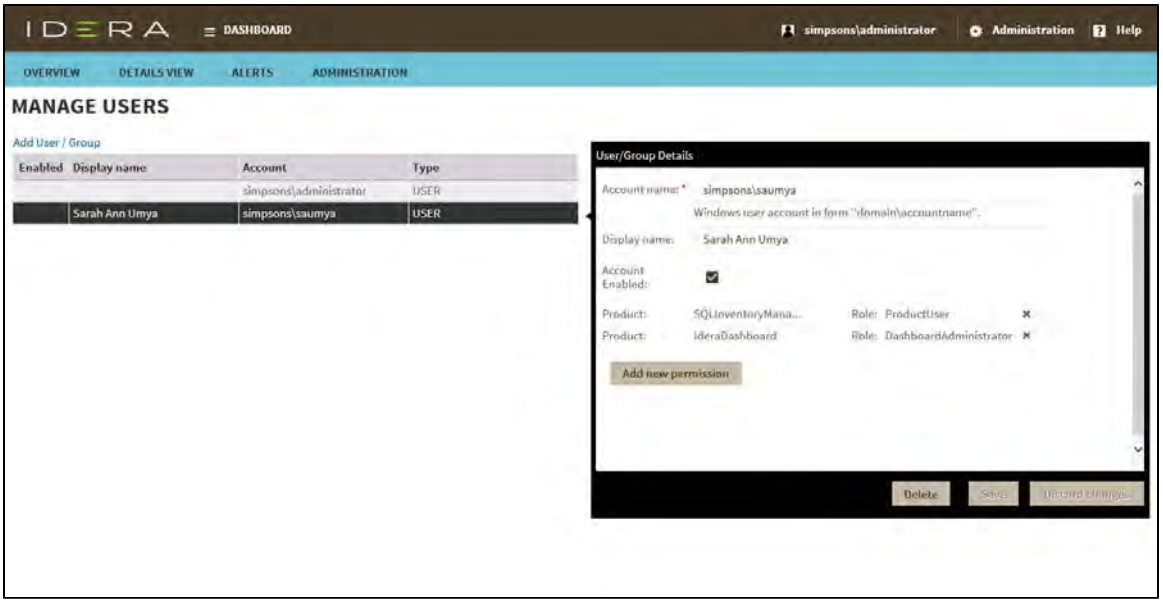
Managing users in the IDERA Dashboard

The Users section of the IDERA Dashboard Administration view allows you to add users and groups, grant access to other team members or groups, and manage roles. For more information about user roles, see Understanding user roles. Users with administrative privileges are divided into two groups:

- **Dashboard Administrator**. Allows the user to manage access over Dashboard functions as well as individual product functions.
- **Product Administrator**. Allows the user to grant access to individual products for which they have administrative rights.

> Users must be existing **Active Directory** users. Newly-added users must use their Windows user account and password to log in to your IDERA products.

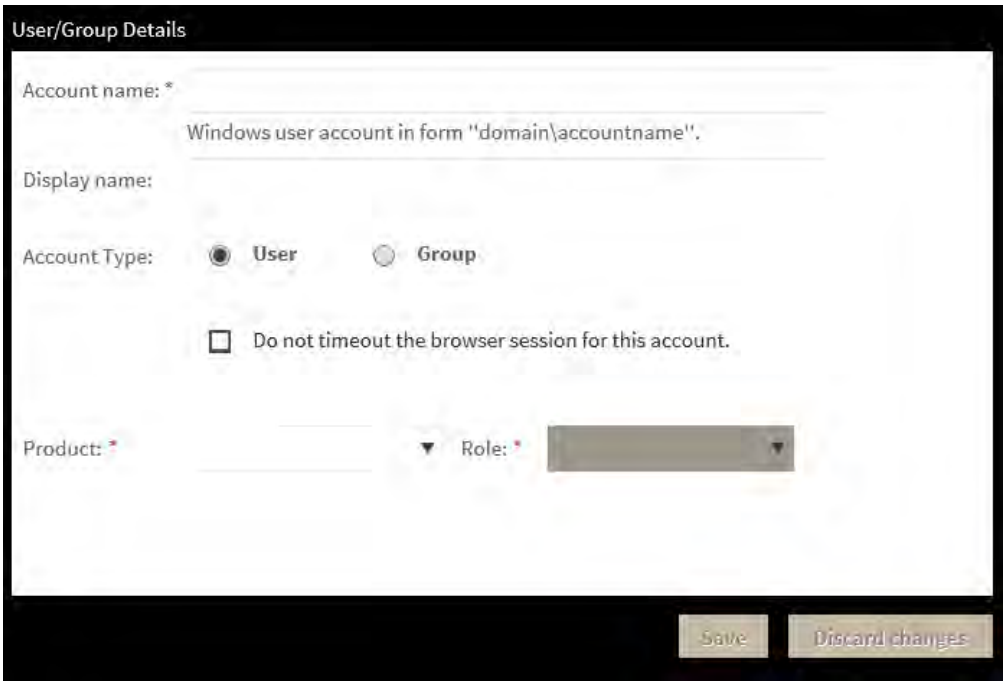
To access user management in IDERA Dashboard, either select **Manage Users** from the Administration menu or click **Manage Users** on the Administration view of IDERA Dashboard.



Adding a user in the IDERA Dashboard

In the IDERA Dashboard, you can grant access to Windows users or groups. Use the following steps to add a user account:

1. In the Manage Users view, click **Add User / Group**. IDERA Dashboard displays the User/Group Details dialog.

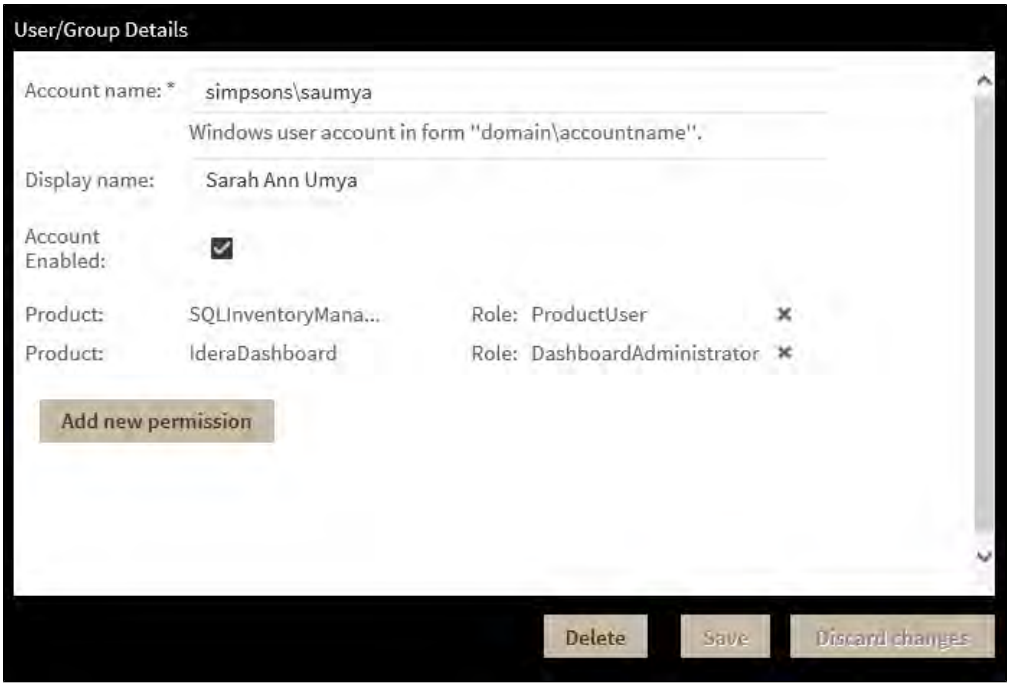


2. Type the account name of the user to which you want to grant access. Enter a Windows user name in the format <*domain\accountname*>.
3. *Optional.* In the **Display name** field, type the common name you want to appear when in use.
4. In the **Account Type** field, select **User** or **Group**.
5. *Optional*. Check **Do not timeout the browser session for this account** if you want the user to be able to remain logged in to your IDERA products even after a period of inactivity.
6. In the **Product** field, select the IDERA product name to which you want to add this new user account.
   If you select IDERA Dashboard in the Product field , the **Role** field allows you to select from the Dashboard Administrator and Dashboard Guest roles.
   If you select a different IDERA product in the Product field , the **Role** field allows you to select from the Product Administrator, Product User, and Product Guest roles.
7. In the **Role** field, select the role you want to assign to this new user account. For more information about the permissions available to each user role, see User role permissions.
   If you want to add more roles to this user account or group , click **Add More**. IDERA Dashboard displays additional **Product** and **Role** fields for you to add another role.
8. Click **SAVE**.

Editing a user in the IDERA Dashboard

Simply selecting the row of an existing user account allows you to edit the account name, display name, enable or disable the user account, and add new permissions. Use the following steps to edit a user or group:

1. In the Manage Users view, click the row of the account you want to edit. IDERA Dashboard displays the User/Group Details dialog, populated with the known detail for that account.

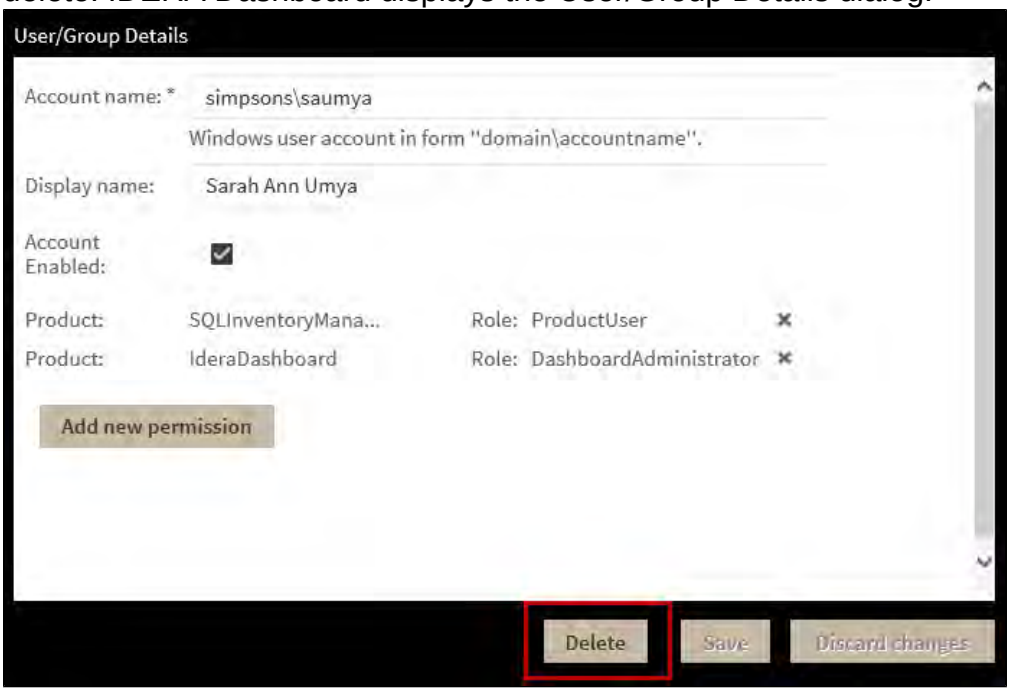


2. Make the necessary changes. ***If you want to add more roles to this user account or group*** , click **Add New Permission**. IDERA Dashboard displays additional **Product** and **R ole** fields for you to add another role.
3. Click **SAVE**.

Removing a user from the IDERA Dashboard

Clicking **Delete** for an existing user account or group allows you to remove that account from access to the IDERA Dashboard. Use the following steps to delete a user or group.

1. In the Manage Users view, click the row of the user account or group that you want to delete. IDERA Dashboard displays the User/Group Details dialog.



2. Click **Delete**. IDERA Dashboard displays a warning message that requires a confirmation

whether you want to delete that selection.

3. Click **Yes**. IDERA Dashboard removes the user account or group and they can no longer access the IDERA Dashboard using the account. ***If you did not mean to delete the selected* account**, click **No**.

IDERA SQL Inventory Manager lets you discover and visualize your SQL Server environment. Learn more > >

IDERA Website	Products	Purchase	Support	Community	About Us	Resources	Legal

Managing instances in the IDERA Dashboard

The IDERA Dashboard tracks SQL Server instances, discovered and managed by different IDERA products. The Instances section of the Administration view allows users to view and delete registered instances.

To view coverage or remove registered instances that no longer exist in your SQL Server environment, either select **Manage Instances** from the Administration menu or click **Manage Instances** on the Administration view, and the Managed Instances window displays. The View filter allows you to select from:

- **All** - Lists all instances discovered in your SQL Server environment and network.
- **Managed** - Lists only those managed instances in various IDERA products.
- **Unmanaged** - Lists instances discovered on the network but not registered.

Removing an instance from the IDERA Dashboard

Clicking the Delete icon for an existing instance allows you to remove instances that no longer exist in your environment. Use the following steps to delete an instance.

1. In the list of instances, click the **Delete** icon for the instance that you want to delete. IDERA Dashboard displays a warning message that requires a confirmation whether you want to delete that selection.
2. Click **Yes**. IDERA Dashboard removes that instance and users can no longer access that instance through the Dashboard. ***If you did not mean to delete the selected*** **instance**, click **No**.

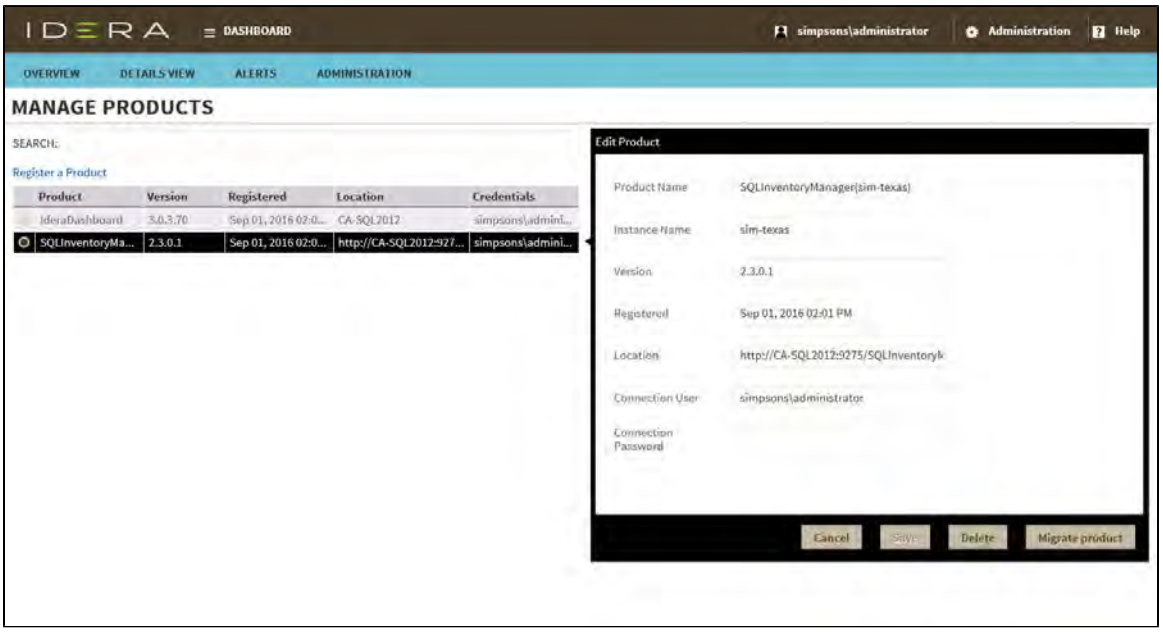
IDERA SQL Inventory Manager lets you discover and visualize your SQL Server environment. Learn more > >

IDERA Website	Products	Purchase	Support	Community	About Us	Resources	Legal

Managing products in the IDERA Dashboard

The IDERA Dashboard hosts IDERA products that register with the dashboard. You must register a product for the associated features to function with IDERA Dashboard. While the product is registered during installation, there may be an occasion when you must manually register the product after installation.

To access product management in IDERA Dashboard, either select **Manage Products** from the Administration menu or click **Manage Products** on the Administration view of IDERA Dashboard.

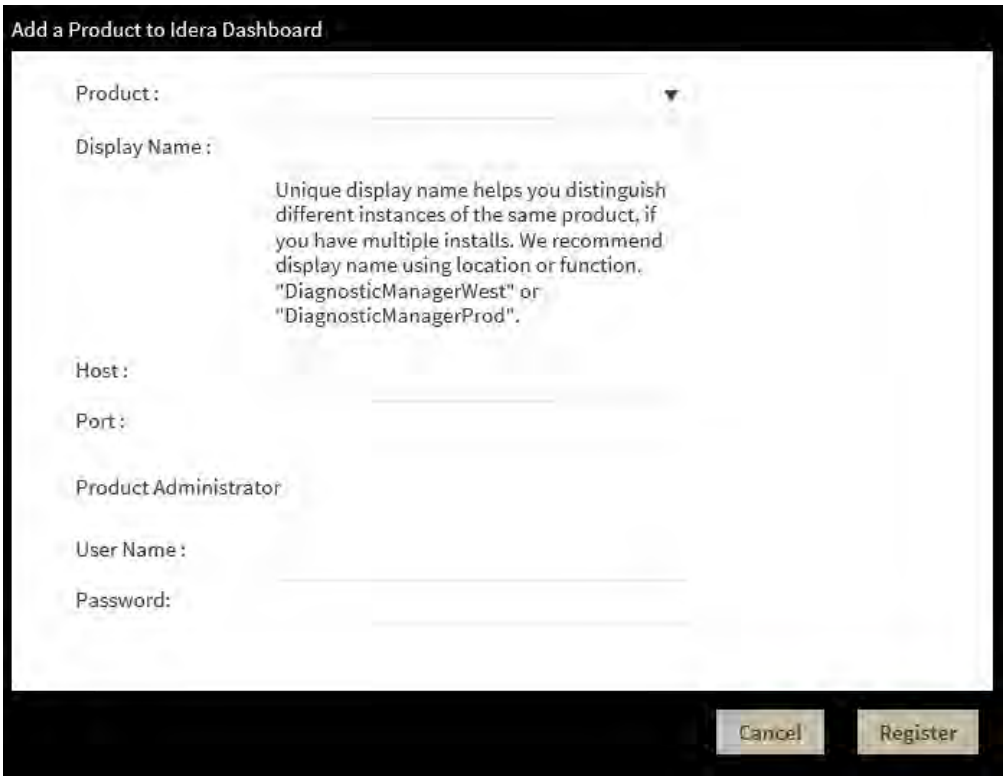


Registering a product in IDERA Dashboard

Typically, registration is handled at the time the product is installed or uninstalled. The Manage Products feature lets you register, view, and manage the list of registered products.

Use the following steps to register a product.

1. In the Manage Products view, click **Register a Product**. IDERA Dashboard displays the Add a Product to IDERA Dashboard dialog.

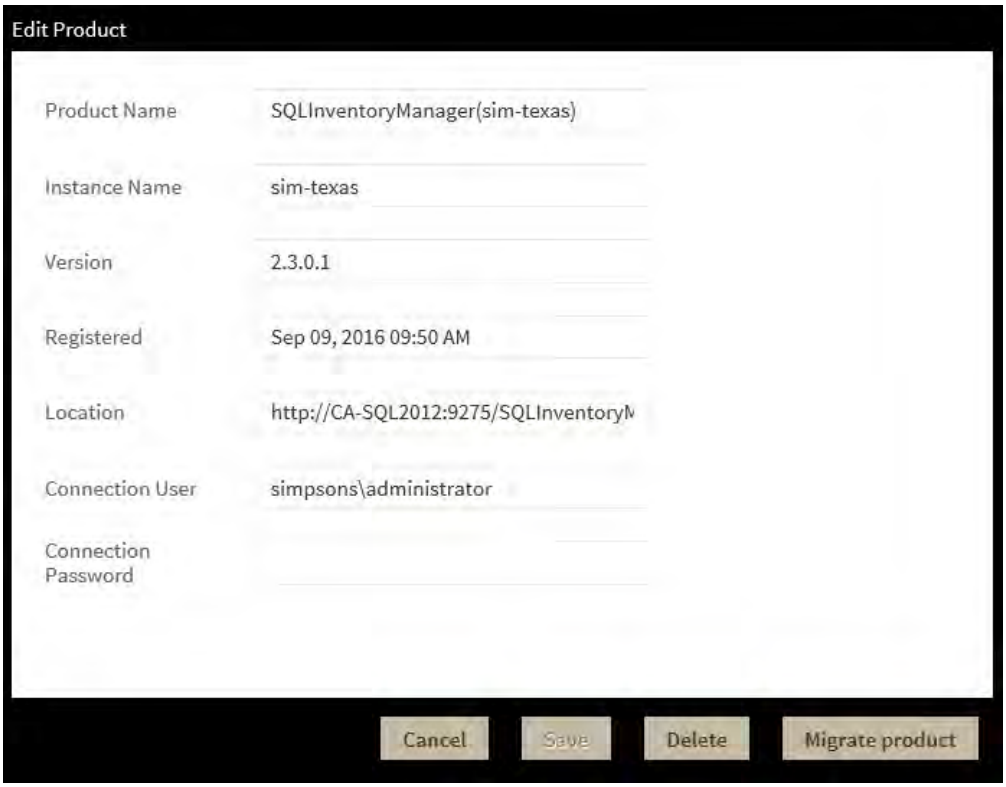


2. Select the product you want to register from the available list.
3. Type a unique display name to help distinguish this instance from another instance if you have multiple installations of the same product. IDERA recommends a display name using the location or function, such as "DiagnosticManagerWest" or "DiagnosticManagerProd."
4. Type the name of the host instance where this product resides.
5. In the **Product Administrator** section, type the user name and password for the administrator account using the *domain\username* format.
6. Click **Register**. A confirmation message appears warning you that the system logs out your session upon continuing.
7. Click **Yes**. Log in to begin using the newly-registered product.

Editing a product in IDERA Dashboard

Use the following steps to register a product.

1. In the Manage Products view, select the product for which you want to change details. IDERA Dashboard displays the related information in the Edit Product dialog.



2. Make the necessary changes, and then click **Save**.

Removing a product from the IDERA Dashboard

Use the following steps to remove a product from registration in IDERA Dashboard.

1. In the Manage Products view, select the product you want to remove from IDERA Dashboard.
2. Verify that the Edit Product dialog displays the information for the correct product, and then click **Delete**. IDERA Dashboard displays a warning message that requires a confirmation whether you want to unregister that selection.
3. Click **Yes**. IDERA Dashboard unregisters the product and users can no longer access that product.

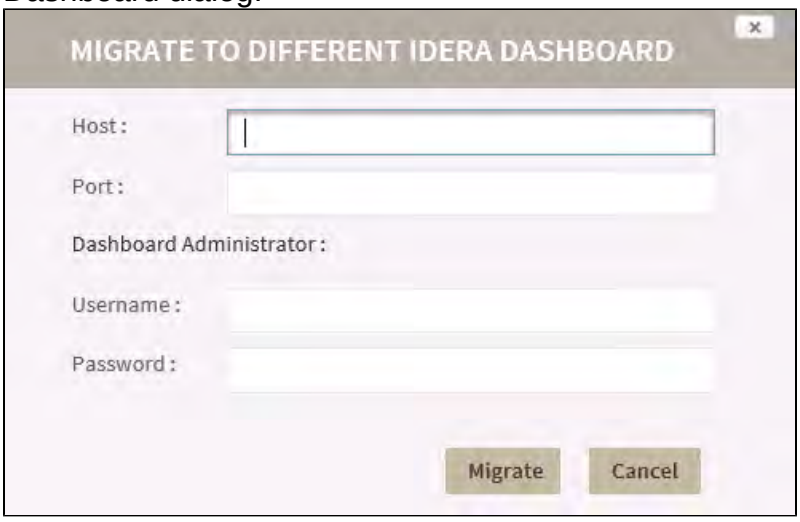
Migrating a product to another IDERA Dashboard installation

Users who have multiple IDERA products also may have more than one version or installation of the IDERA Dashboard. To take advantage of all of the features of the latest version of IDERA Dashboard, you can migrate your products from one version of IDERA Dashboard to another. This process migrates data to the target version and un-registers the product from the previous IDERA Dashboard.

Use the following steps to migrate an IDERA product from one installation or version of IDERA Dashboard to another.

1. In the Manage Products view, select the product you want to migrate from one installation of IDERA Dashboard to another.
2. Verify that the Edit Product dialog displays the information for the correct product, and then click **Migrate product**. IDERA Dashboard displays the Migrate to different IDERA

Dashboard dialog.



3. Type the name of the host machine on which the target IDERA Dashboard is installed and the port in which you communicate.
4. In the **Dashboard Administrator** section, type the user name and password for the target IDERA Dashboard administrator account using the *domain\username* format.
5. Click **Migrate**. IDERA Dashboard migrates the product to the target IDERA Dashboard.

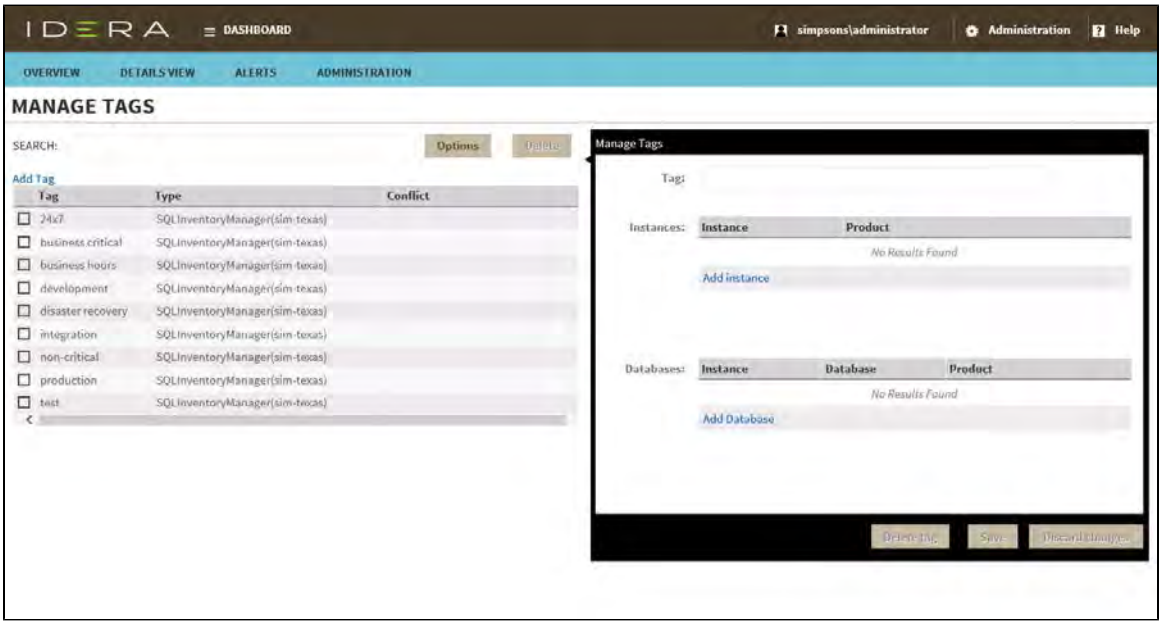
IDERA SQL Inventory Manager lets you discover and visualize your SQL Server environment. Learn more > >

IDERA Website	Products	Purchase	Support	Community	About Us	Resources	Legal

Managing tags in the IDERA Dashboard

Tags can help you organize your managed instances and databases. While you can still create a tag within any IDERA product supporting that functionality, tags created in IDERA Dashboard can be used in other IDERA SQL products. Create, import, view, edit, and delete tags and their associated instances and databases using the Manage Tags action.

To access tag management in IDERA Dashboard, either select Manage Tags from the Administration menu or click **Manage Tags** on the Administration view of IDERA Dashboard.



Global versus local tags

Tags created in IDERA Dashboard 3.0.x and later are known as global tags and are available to all products that are integrated with that version of IDERA Dashboard. Local tags are available only within the IDERA product in which they are created.

When you assign a global tag to an instance or database, you must wait for the synchronization job to run before the tag is available in all other IDERA products. The synchronization job runs every 15 minutes by default.

Adding a global tag in the IDERA Dashboard

In the IDERA Dashboard, you can create a global tab to be used across all SQL products. Use the following steps to add a global tag.

1. In the Manage Tags view, click **Add Tag**. IDERA Dashboard displays the Manage Tags dialog.

Editing a global tag in the IDERA Dashboard

Simply selecting the row of an existing global tag allows you to add and remove instances and databases associated with the global tag as well as change the name of the global tag itself. Use the following steps to edit a global tag.

1. In the Manage Tags view, click the row of the global tag you want to edit. IDERA Dashboard displays the Manage Tags dialog, populated with the known detail for that global tag.
2. Make the necessary changes. ***If you want to add an instance or database to this global tag***, click **Add instance** or **Add database**. IDERA Dashboard displays additional fields for you to add appropriately.
3. Click **SAVE**.

Deleting a global tag from the IDERA Dashboard

Use the following steps to delete a global tag.

1. In the Manage Tags view, click the row of the global tag that you want to delete. IDERA Dashboard displays the Manage Tags dialog.
2. ***If there are any instances or databases assigned to the tag***, remove them. You cannot delete a tag when instances are assigned to that tag.
3. Click **Delete tag**. IDERA Dashboard displays a warning message that requires a confirmation whether you want to delete that selection.
4. Click **Yes**. IDERA Dashboard removes the global tag. ***If you did not mean to delete the global tag***, click **No**.

IDERA SQL Inventory Manager lets you discover and visualize your SQL Server environment. Learn more > >

IDERA Website	Products	Purchase	Support	Community	About Us	Resources	Legal

Configure navigation order in the IDERA Dashboard

The IDERA Dashboard supports multiple IDERA products, each on their own tab. You can even have more than one installation of the same product in your environment displayed on the IDERA Dashboard. Each installation appears as a tab, displaying the product name followed by a unique name entered during product installation. For this reason, IDERA Dashboard allows you to customize the tab order.

To rearrange product tabs on the IDERA Dashboard, click **Customize Main Navigation Tab Order** in the Administration view, and the Products window displays:

Move tabs using a drag-and-drop operation. Be sure to click **Save** before leaving this window.

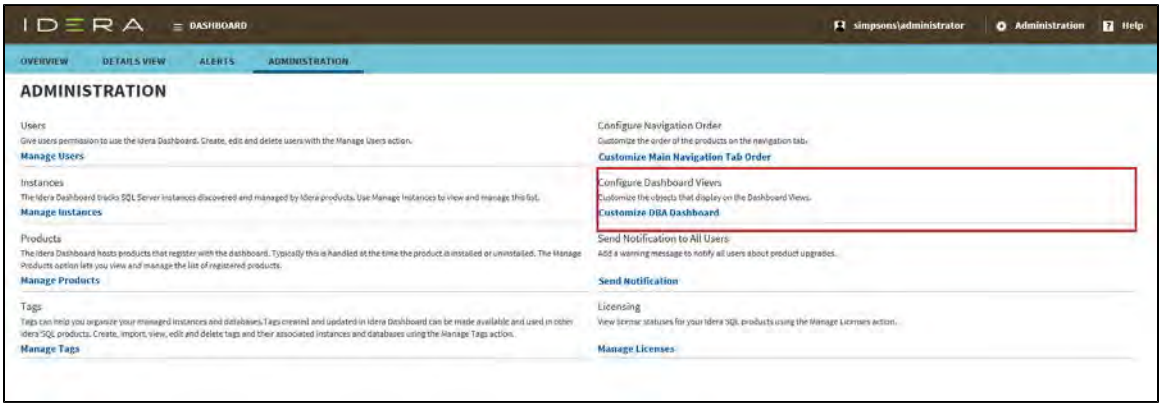
IDERA SQL Inventory Manager lets you discover and visualize your SQL Server environment. Learn more > >

IDERA Website	Products	Purchase	Support	Community	About Us	Resources	Legal

Configure IDERA Dashboard DBA views

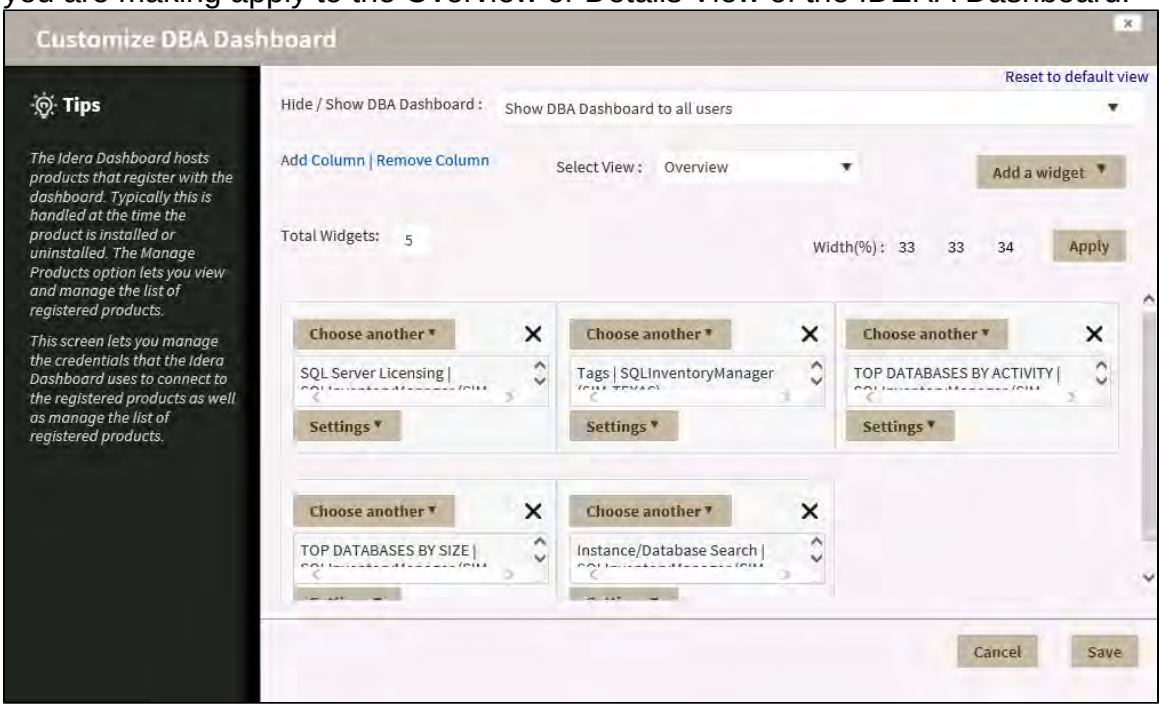
The purpose of IDERA Dashboard is to host other IDERA products. These products must register with IDERA Dashboard, which is typically done at the time the product is installed or uninstalled. The Manage Products option lets you view and manage the list of registered products.

The Customize DBA Dashboard option lets you manage the objects that appear on the Overview and Details View tabs of the IDERA Dashboard.



To customize Dashboard views:

Click **Customize DBA Dashboard** in the Administration view, and the Customize DBA Dashboard dialog appears. Note that the **Select View** field which displays whether the changes you are making apply to the Overview or Details View of the IDERA Dashboard.



In the Customize DBA Dashboard dialog you can:

- **Hide/Show DBA Dashboard**. Options allow you to display the Dashboard to all users, hide the Dashboard form all users, or display the Dashboard only to users who have permissions on two or more registered IDERA products.

- **Add/Remove Column**. Based on the number of widgets you want to include, you can change the number of columns for a better view.
- **Width (%)**. Use percentages to set the width of your columns.

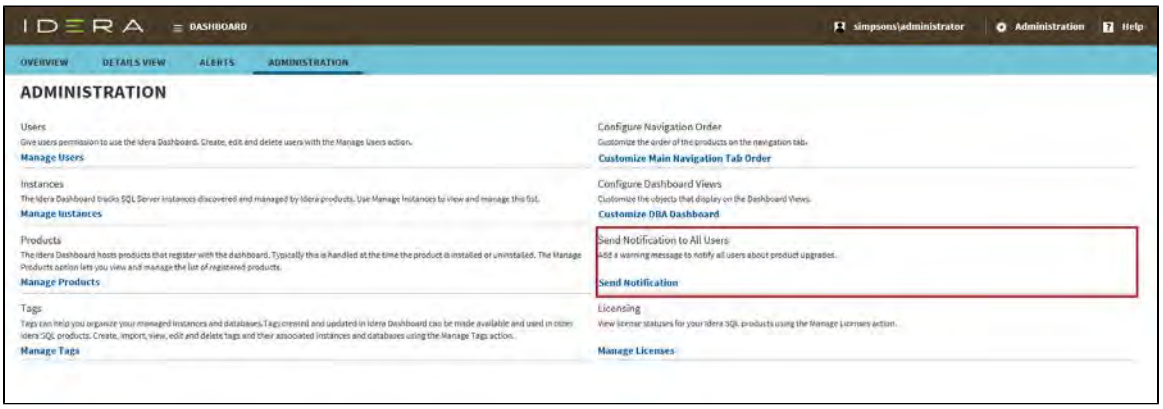
Be sure to click **Save** to retain your changes.

IDERA SQL Inventory Manager lets you discover and visualize your SQL Server environment. Learn more > >

IDERA Website	Products	Purchase	Support	Community	About Us	Resources	Legal

Sending notifications in the IDERA Dashboard

The Send Notification to All Users widget of the Administration view allows users to send a product upgrade warning message to all users.



To send a notification:

1. Select **Send Notification** in the Administration view, and the Send Notification to All Users window displays:

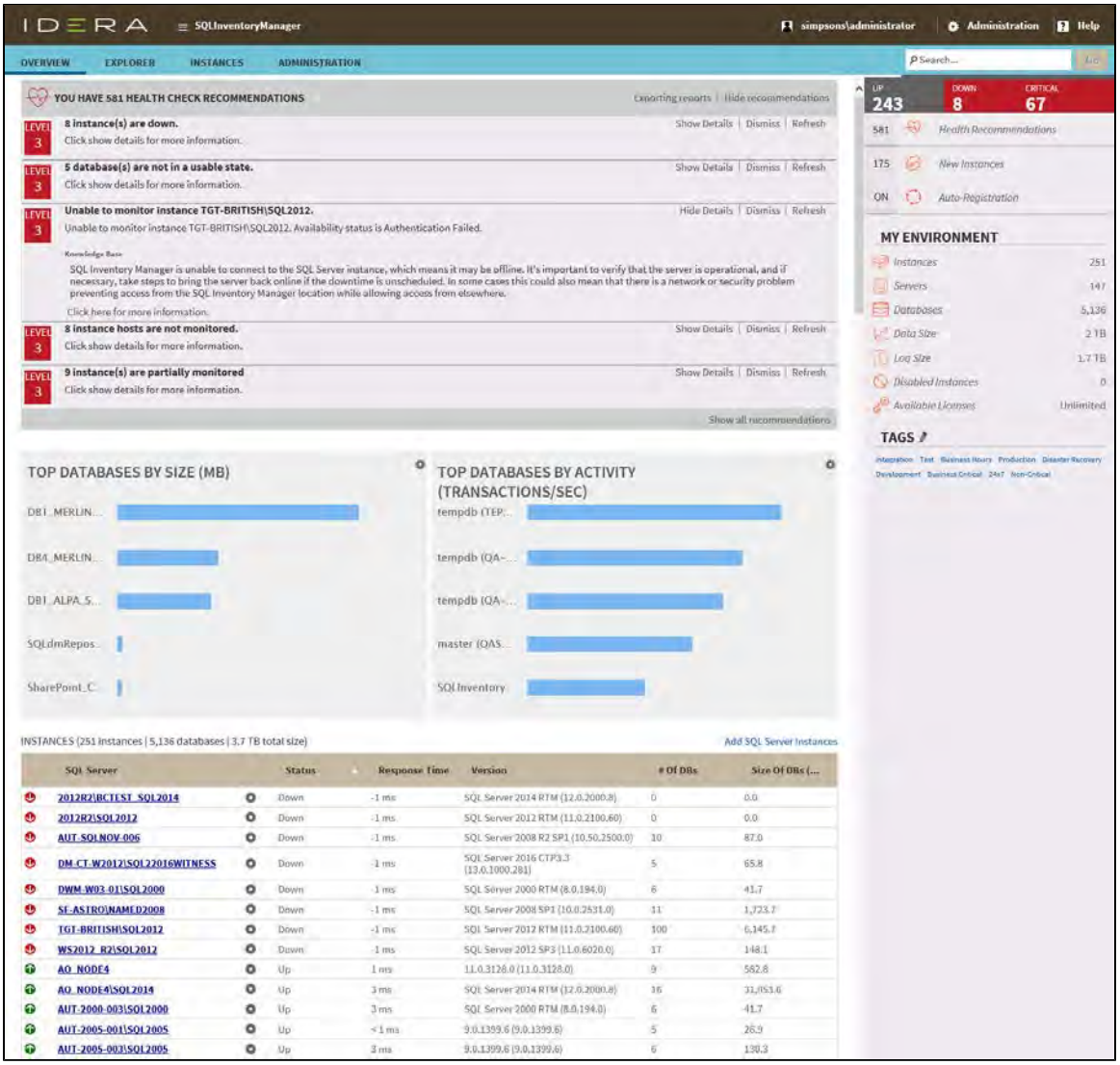
2. Type your warning message and click **Send**.
3. A preview of your warning displays. If you want to proceed, click **OK**.

IDERA SQL Inventory Manager lets you discover and visualize your SQL Server environment. Learn more > >

IDERA Website	Products	Purchase	Support	Community	About Us	Resources	Legal

Viewing information on the SQL Inventory Manager Overview

The IDERA SQL Inventory Manager Overview tab is the home page of the product. This tab provides a high-level status of your registered instances, and health check recommendations for issues found across your environment.



Health Check Recommendations

IDERA SQL Inventory Manager performs health checks on your registered instances to help you monitor the most important issues across your environment. For more information about the health checks performed by IDERA SQL Inventory Manager, see What Health Check Recommendations are available with SQL Inventory Manager?

On this section of the Overview tab, IDERA SQL Inventory Manager shows you the most critical health check recommendations for your environment, grouped by health check type, and ordered by level of criticality, where:

- Level 3 = critical

- Level 2 = warning
- Level 1 = informational

If you have no health check recommendations, you will see the message: **All instances are passing their health checks.**

Click **Show Details** or click the name of the health check recommendation to:

- view a list of instances or databases affected by the respective health check.
- individually **Dismiss** the health check recommendation.
- individually **Refresh** the status of a database or instance.
- view the knowledge base detail about the specific health check recommendation.

To close this view of the details, click **Hide Details.**

When you have multiple instances listed under a single health check recommendation, you can dismiss the information for an individual database or instance but you can also choose to **Dismis s** the whole health check recommendation by clicking Dismiss at the top level of the recommendation.

Use **Refresh** to get the most updated information for a specific health check recommendatio**n.**

Dismissing Health Check Recommendations

Dismissing a health check recommendation causes IDERA SQL Inventory Manager to ignore this recommendation temporarily. You do not get alerts until the health check passes and then goes into an alert status again.

Tip

When you dismiss a health check recommendation, a dialog window opens to confirm this action, you can enable the option **Do not show this warning again** so that IDERA SQL Inventory Manager does not prompt this warning message each time you dismiss a health check recommendation.

Exporting health check recommendation reports

At the top of the Health Check Recommendations section, you can find the **Exporting reports** o ption. Use this feature to export:

- **Summary of recommendation categories**. The overview displays a summary of all health checks recommendations grouped by categories of health check recommendations. This option allows you to export this summarized information.
- **Details for all recommendations**. By using this option, you can export a report that

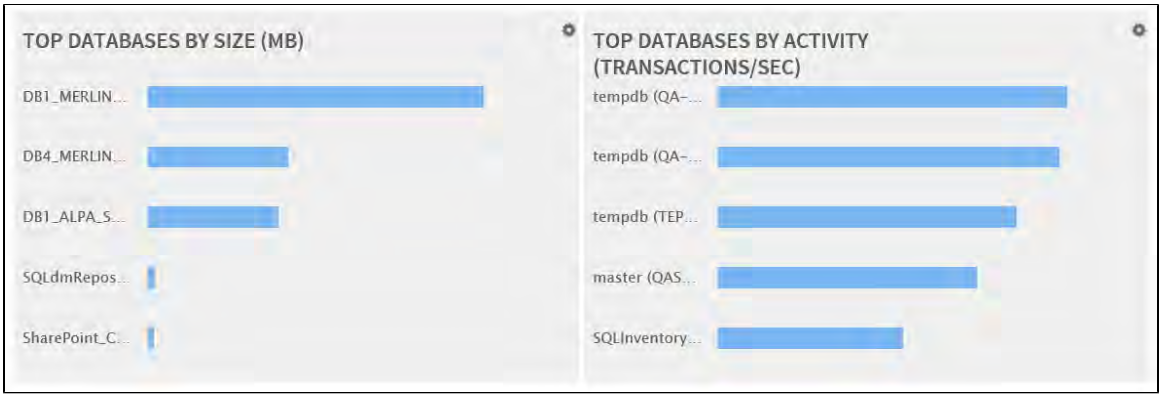
includes all available health check recommendations in detail.

- **Details for selected categories**. With this option you can select those categories of health check recommendations you want to export. For example, you can choose to have a report for all databases that do not have a backup or for all the instances that are not monitored.

You have three formats for exporting your reports: **PDF**, **XLS**, and **XML**. Choose one of these options, and then click **Export.**

Databases Graphs

IDERA SQL Inventory Manager provides you bar graphs of the most important databases from your environment. You can get a view of the largest and busiest databases across your instances.



Instances

This section provides you with a table of all the registered instances on your environment. It displays information about the instances status, response time, SQL Server version, number and size of databases per instance. You can click any of the column headers to order the table by the respective field.

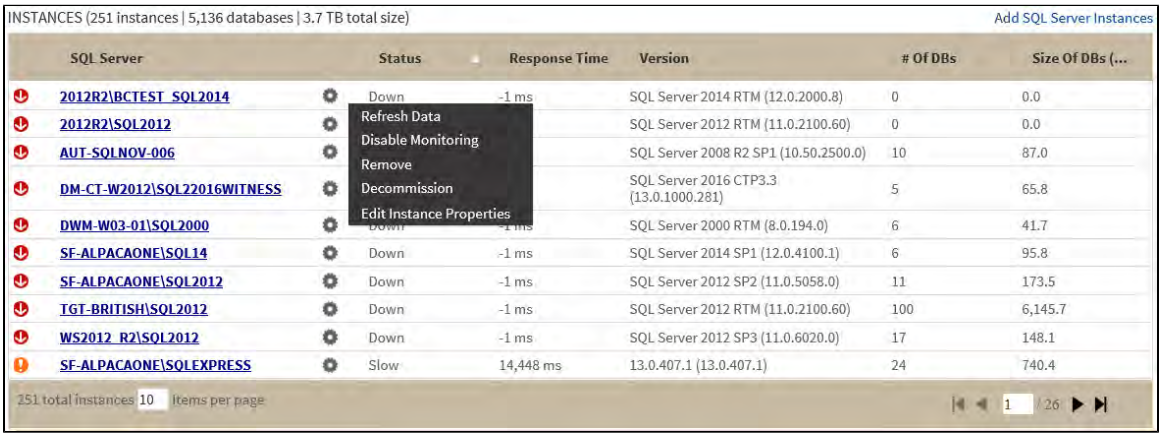
On this section, you can also add new instances by clicking the **Add SQL Server instance** optio n located on the top right section of this table. For more information on how to add instances, refer to Add SQL Server instances.

By clicking the gear icon next to an instance name, you can perform the following specific actions for that instance:

- **Refresh Data** - Click this option to update information.
- **Disable Monitoring** - Go to Disabling instances for more information.
- **Remove** - Refer to Removing instances Removing instancesfor guidance on this section.
- **Decommission** - Refer to Decommissioned instances for more information.
- **Edit Instance Properties** - Refer to the Edit instance properties for more information.

Tip

You can also access an instance details view by clicking directly its name. Go to Viewing instance details, for more information on this view.



Status Area

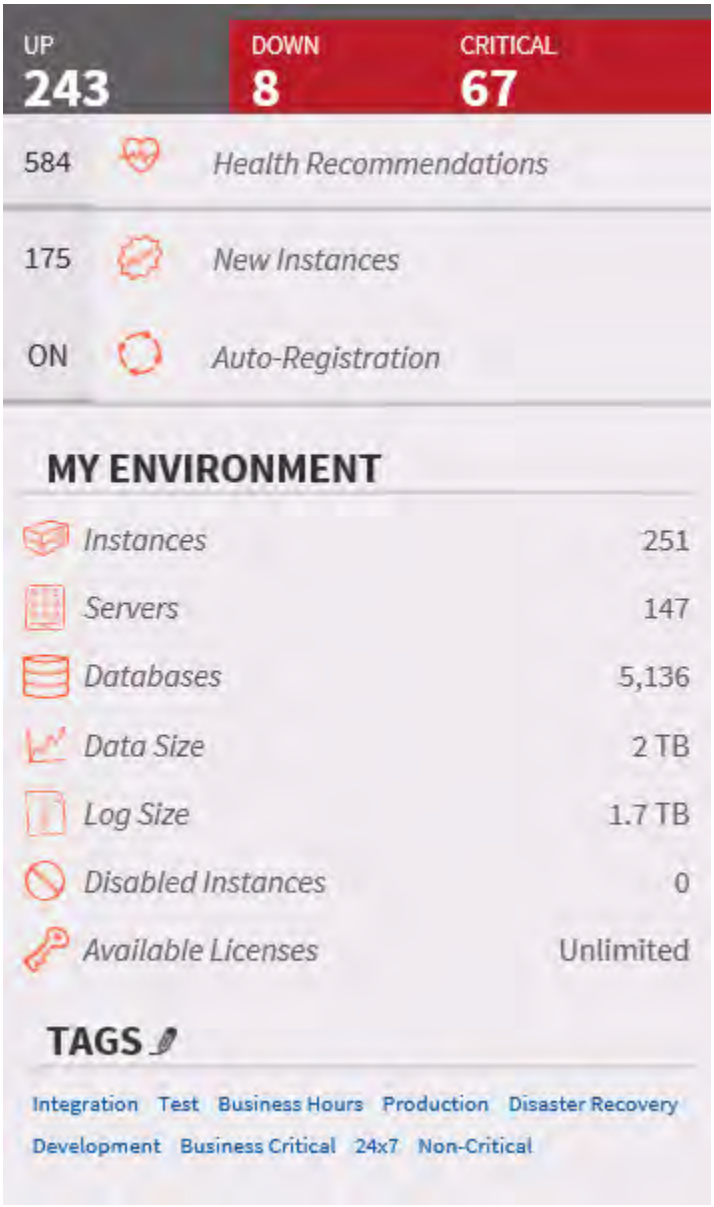
On the right side of the overview, IDERA SQL Inventory Manager provides a summary of the status and contents of your environment that includes:

- The number of Instances that are up, down or critical.
- The number of Health Recommendations.
- The number of newly discovered instances. Click **New Instances** and IDERA SQL Inventory Manager displays the list of recently discovered instances. For more information, go to Discovered Instances.
- If the Auto-Registration option is off or on. You can click this option to enable or disable it. For more information, refer to Auto registration options.
- A summary of your environment with the number of instances, databases, data size, log size, disabled instances, ad available licenses. You can click these options to access the following information
  - **Instances** - Get a list of all managed instances.
  - **Databases** - Get a view of your databases count filtered by tags.
  - **Data Size** - Get a view of your data size filtered by tags.
  - **Log Size** - Get a view of your log size filtered by tags.
  - **Disabled instances** - Get a view of all your managed instances, ordered by status.
  - **Available licenses** - Access this option to view your current license, add, or buy another one. For more information, refer to Managing licenses.
- A section of the most used Tags. You can click the pencil icon to manage all tags. For more information, refer to the Managing all tags section.

Take into account that IDERA SQL Inventory Manager rounds off data so there may be minor discrepancies between the size data displayed in the Summary and Instances section of the Overview tab.

Tip

If you click on a tag name, IDERA SQL Inventory Manager displays a view of your environment's data size by instance, filtered with the respective tag.



Tags font size represents the most used tags. The bigger the font size, the greater the number of instances that belong to that tag.

IDERA SQL Inventory Manager lets you discover and visualize your SQL Server environment. ***Learn more > >***

IDERA Website	Products	Purchase	Support	Community	About Us	Resources	Legal

Exploring your instances

The IDERA SQL Inventory Manager Explorer tab lets you explore the instances and databases of your environment. You can choose different views and filters in order to learn more about the data and activity of your SQL Servers instances.

The following is an example of the many options for exploring the information on your environment:

- You can select to show data size by instance/database tags to see which of your tags contain the most data.
- Then, you can select a tag name to get more specific information.
- Finally, you can access the tagged instances to get a view of your data size by instances/databases and filtered with the respective tag.

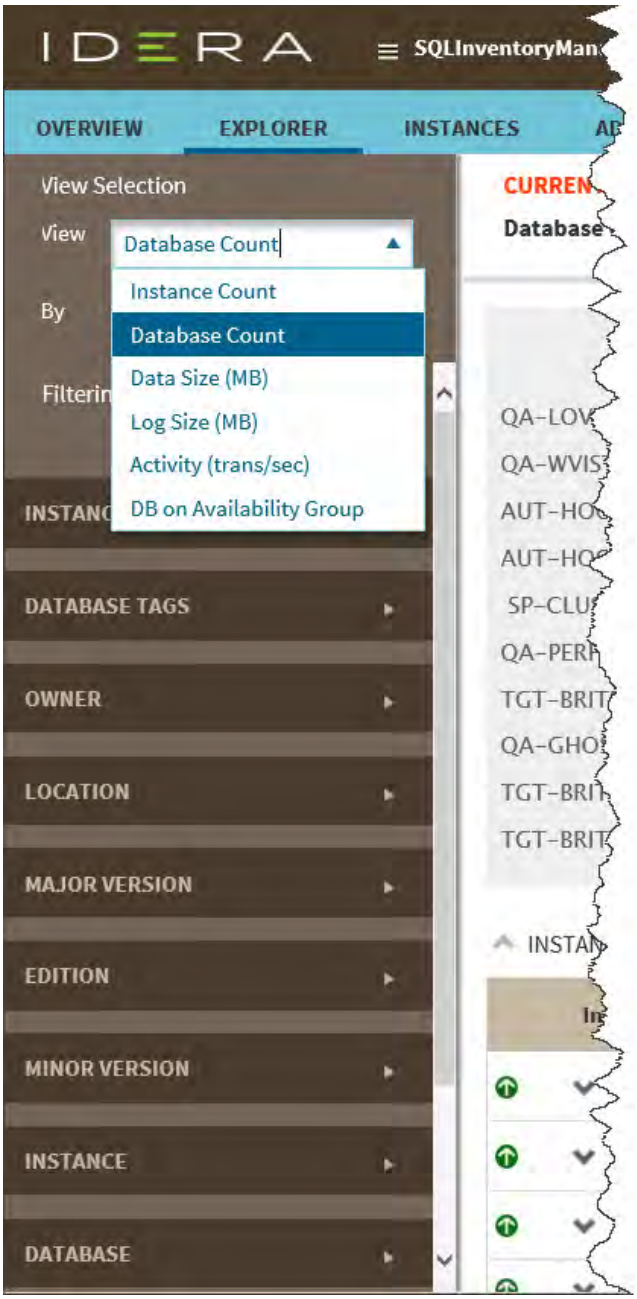
Like this example, you have many different options to select the information you want to see from your environment. By using tags, owners, and locations from your SQL Servers instances, you get significant advantages from this section.

Choosing the information you want to see

The **View Selection** section allows you to choose what specific information or under which main parameter you want IDERA SQL Inventory Manager to display the information.

You can select to **View** the following type of information:

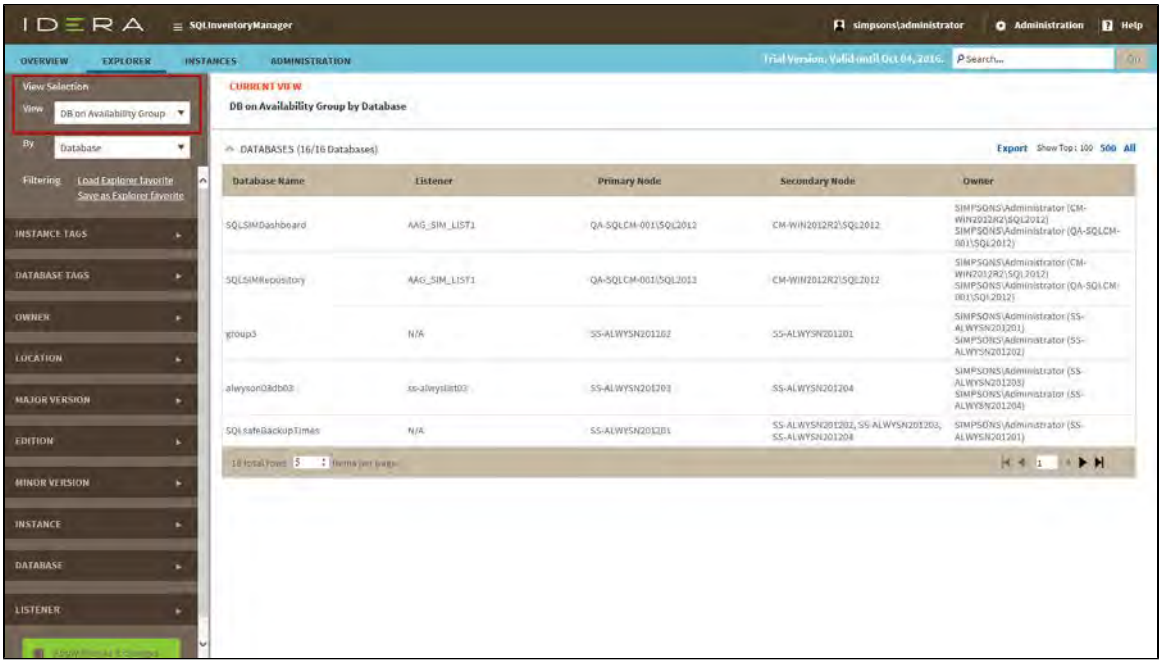
- Instance count
- Database count
- Data size (MB)
- Log size (MB)
- Activity (transactions per second)
- Database on Availability Group



Understanding the Databases on Availability Group view

IDERA SQL Inventory Manager allows you to explore by **Databases on Availability Group**. Depending on need, you can monitor any member of the AlwaysOn Availability Group and IDERA SQL Inventory Manager displays information about the primary node, secondary nodes, and databases that are in the AlwaysOn Availability Group including:

- Database Name
- Listener
- Primary Node
- Secondary Node
- Owner

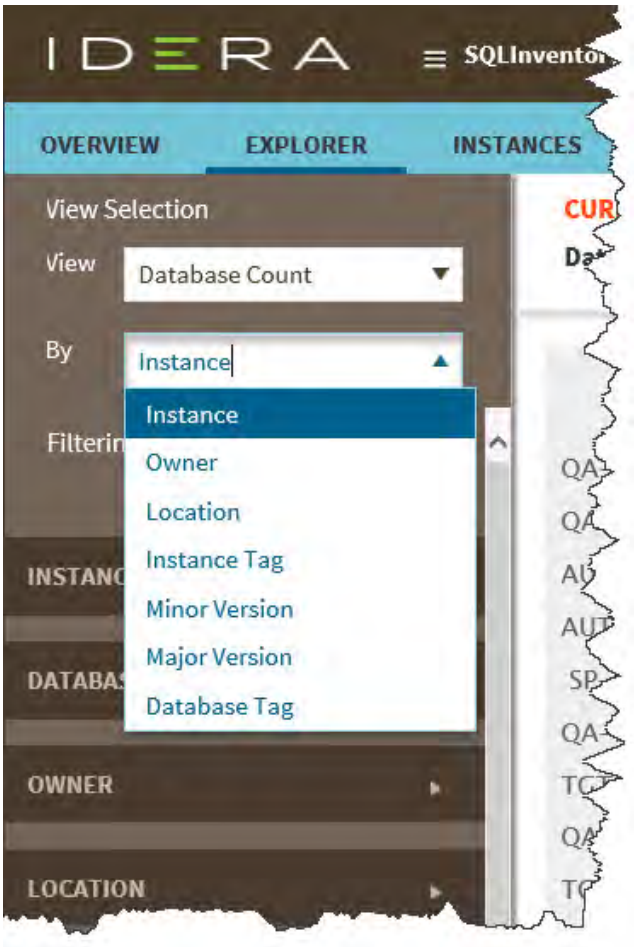


If you not only want to receive static information about AlwaysOn Availability Group databases but also want to monitor health checks of all nodes or track statuses of databases that are not in the AlwaysOn Availability Group, you must add all of the nodes in which you are interested. Because the listener is simply a virtual network name that points to physical instance in a primary or secondary replica of an AlwaysOn Availability Group, you are responsible for the correct AlwaysOn Availability Group configuration.

Additional options

Then you choose to see the previous selected information delimited **By** the following options:

- Instance
- Instance tag
- Owner
- Location
- Minor server version
- Major server version
- Edition
- Database (Type the name of the database. This field accepts wildcards.)
- Database tag
- Listener (Database and Listener filters allow you to filter for specific items when you are trying to get a list of databases on availability groups.)



As a result, you may be able to see information such as database count by instance, instance count by location, data size by owner, and other interesting information from your environment. Take into account that some options may only be available depending of what you choose in the **View** and **By** fields.

You can enable the option **Applying filter as it changes** to have immediate information, or you can disable this option when you want to make your selections first and see the requested information after you finish.

Using filters to refine what information you see

After you choose what data you want to see and by which parameter, you can also optionally select from the group of filters to narrow your search criteria. This section contains the following options:

Instance Tags

This option allows you to determine a specific instance tag or tags for your selection. When you click the drop down menu of this section, you can sort the list of tags by name or count, and then choose the tag or tags that you want to include in your selection.

To access to the complete list of tags, click **more**. If you want to remove your selections, click **Re move tag filters**.

Database Tags

This option allows you to determine a specific database tag or tags for your selection. When you click the drop down menu of this section, you can sort the list of tags by name or count, and then choose the tag or tags that you want to include in your selection.

To access to the complete list of tags, click **more**. If you want to remove your selections, click **Remove tag filters**.

Owner

This option allows you to determine a specific owner or owners for your selection. When you click the drop down menu of this section, you can see a list of all your environment's owners. Choose the owner or owners that you want to include in your selection.

To access to the complete list of owners, click **more**. If you want to remove your selections, click **Remove owner filters**.

Location

This option allows you to determine a specific location or locations for your selection. When you click the drop down menu of this section, you can see a list of all your environment's locations. Choose the location or locations that you want to include in your selection.

To access to the complete list of locations, click **more**. If you want to remove your selections, click **Remove location filters**.

Instance

This option allows you to determine a specific instance or instances for your selection. When you click the drop down menu of this section, you can see a list of your registered instances. Choose the instance or instances that you want to include in your selection.

To access to the complete list of instances, click **more**. If you want to remove your selections, click **Remove instance filters**.

Version

This option allows you to determine a specific version or versions for your selection. When you click the drop down menu of this section, you can see the list of all available versions, choose the version or versions that you want to include in your selection.

To access to the complete list of versions, click **more**. If you want to remove your selections, click **Remove version filters**. On the top section of the filtering options, click **Clear** to quickly remove all your chosen filters and select new ones.

As you filter your information, the options you select appear on the top section of your graphs. You can uncheck from this section to individually remove filters.

Viewing filtered information

After you specify the filters you need, IDERA SQL Inventory Manager displays graphs to provide a visual representation of the data you have selected. The bar and pie graphs let you quickly get

a glance of your environment according to your parameters.

You can also choose how many instances IDERA SQL Inventory Manager will display on your graphs by selecting the top **100**, **500**, or **All** instances. This option is located at the bottom right side of your graphs.

Below these graphs, IDERA SQL Inventory Manager shows you a table of the information that corresponds to your selection.

You can click a database or instance name to access its respective details. For more information on what is available on these views, refer to Viewing Database Details or Viewing instance details respectively.

Saving your filtering criteria

Creating a useful filter to "weed out" unnecessary information takes time but is important when managing large environments. As a result, you may want to save that filter for future use. IDERA SQL Inventory Manager allows you to save filters for use in the Explorer and Instances views. Simply create the filter, and then click **Save as Explorer favorite** or click **Save as Instances favorite**, depending on which view you are in when creating the filter. To use that filter, click **Load Explorer favorite** or click **Load Instances favorite**.

Drill-down options for locating more specific information

Drill down to view by instances

When you view high-level objects such as tags, owners, locations, or versions, you can drill down to see their respective instances by clicking the arrow icon next to the object you want to see more specific information.

Click ⌄ and IDERA SQL Inventory Manager changes your selection to **View by Instances** and filters it according to the tag, owner, location or version you selected before.

You can go back to your previous view by clicking ⌃ on the top left section of your instances table.

Drill down to view by databases

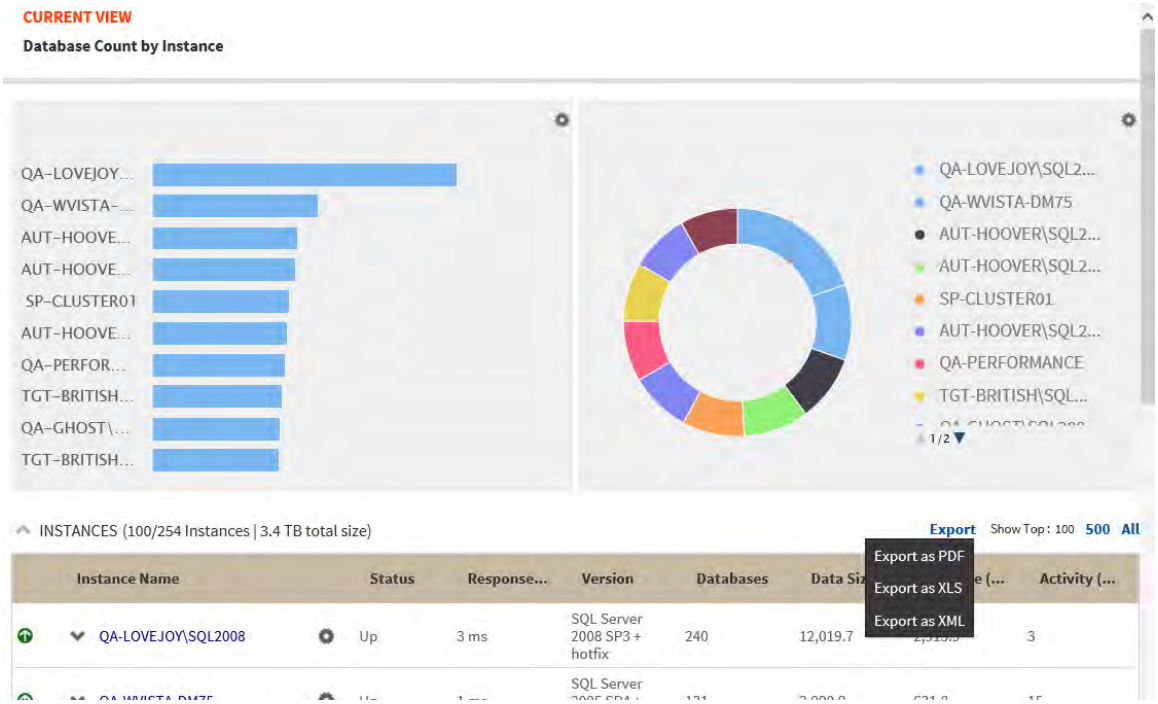
When you are viewing your information by instances, you can drill down one more level and view by databases.

Click ⌄ next to the instance you want to see its respective databases, and IDERA SQL Inventory Manager displays the list of databases that belong to the respective instance. The view changes to **View by Databases** and filters it by the selected instance.

You can go back to the previous view by clicking ⌃ on the top left section of your databases list.

Exporting Explorer view information

You can export the information available on the Explorer view, by clicking the **Export** option on the right-bottom side of your graphs and selecting your preferred format for Exporting: **PDF**, **XLS**, or **XML**.



You can set the number of instances you want IDERA SQL Inventory Manager to show per page, go to the bottom of the page, type the number you require, and then press **Enter**.

IDERA SQL Inventory Manager lets you discover and visualize your SQL Server environment. ***Learn more > >***

IDERA Website	Products	Purchase	Support	Community	About Us	Resources	Legal

Viewing BI Services

To access the BI Services view, go to the **Instances** tab, click **Database Instances** and select **BI Services** from the menu.

The BI Services view allows you to see relevant information for discovered BI services. You can access the following information in the BI Services view:

Service Name: The name of BI the service.

Server/Instance Name: The instance name were the service is located.

BI Services: The type of service, for example SSRS, SSAS or SSIS

Status: The service status.

Version: The MS SQL Server version and build number.

Edition: The MSQL Server Edition.

Discovered: Displays the date and time when a BI service is discovered.

You can sort the order of the elements on a column clicking on a heading; for example, click **Discovered** to order the discovered services according to their discovery date.

Other options available on the BI Services view are **Filtering**, **Discover BI Services**, and **Export** .

Filtering

The filtering options on the left side of the BI Services view, allow you to filter the BI services you want to display. You can filter the displayed BI services according to BI Service type, Version,

and Edition. If you want to filter BI services by type, just select the respective option from the BI Service filter.

Creating a useful filter to "weed out" unnecessary information takes time but is important when managing large environments. As a result, you may want to save that filter for future use. SQL Inventory Manager allows you to save filters for use in the Explorer and Instances views. Simply create the filter, and then click **Save as Explorer favorite** or click **Save as Instances favorite**, depending on which view you are in when creating the filter. To use that filter, click **Load Explorer favorite** or click **Load Instances favorite**.

You can enable or disable the option Apply filter as it changes depending if you want to see the changes as you apply the filter, or if you prefer to select your filters first and see the results when you finish.

Discover BI services

If you want to discover BI services on your environment, click **Configure BI Services**. And refer to the **Discovery Center Options** documentation.

Export

If you want to export the information displayed on the BI Services view, go to the **Export** option, located on the action items bar, and select your preferred format for exporting (PDF, XLS, or XML). You can import your exported views on SQL BI Manager.

IDERA SQL Inventory Manager lets you discover and visualize your SQL Server environment. ***Learn more*** **> >**

IDERA Website	Products	Purchase	Support	Community	About Us	Resources	Legal

Viewing all instances

The **Instances** tab provides a broad visibility of your environment. IDERA SQL Inventory Manager displays in this section all available instances in the following views:

- **MANAGED** - Instances you have registered with SQL Inventory Manager.
- **SQL LICENSING** - Helpful information about your instances to help you determine your SQL Server licensing requirements.
- **DECOMMISSIONED** - Instances decommissioned in SQL Inventory Manager.
- **DISCOVERED** - Instances discovered by SQL Inventory Manager and not registered yet.
- **IGNORED** - Instances you have chosen not to manage with SQL Inventory Manager.

SQL Inventory Manager ***lets you discover and visualize your SQL Server environment.*** ***Learn more*** **> >**

IDERA Website	Products	Purchase	Support	Community	About Us	Resources	Legal

Managed instances

The IDERA SQL Inventory Manager list of managed instances displays all your environment's registered instances together with their status, SQL Server versions, editions, number and size of their databases, owners, locations and whether the instances are clustered.

You can click the headers of these columns to order your information; for example, click **# of DBs** to order all your instances according to the number of databases.

Instance status

Next to the instance name, you can find the following icons that represent the instance status:

Instance up Instance down Disabled instance Instance not available Auth entication failure Slow

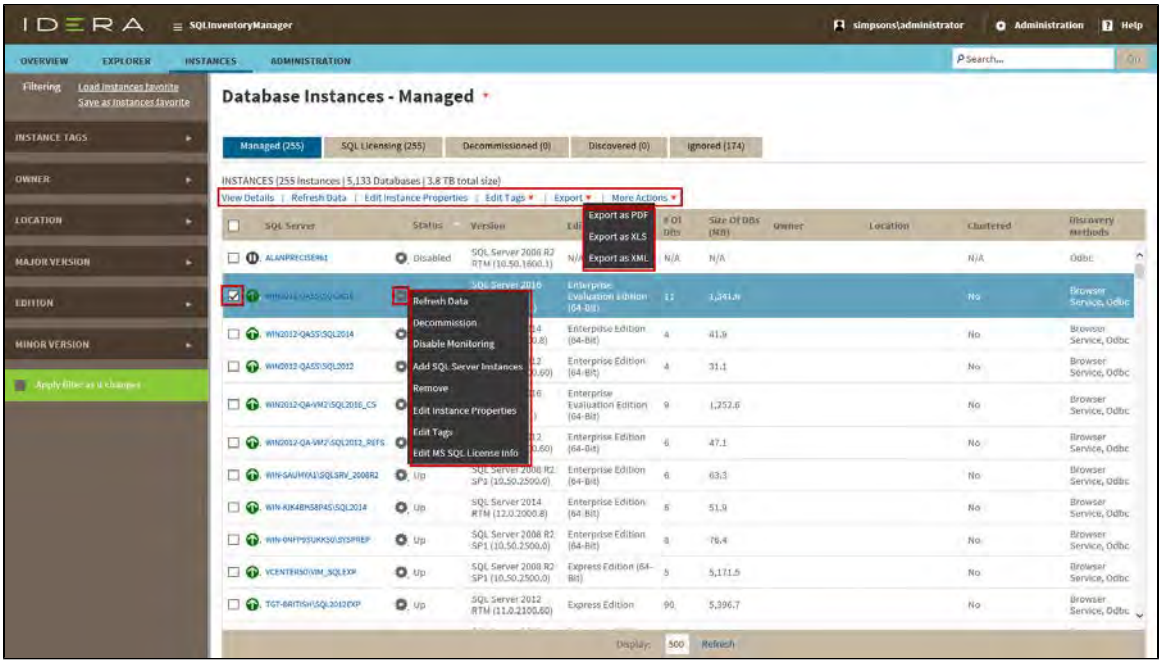
Tip

You can set the number of instances you want SQL Inventory Manager to show per page. Go to the **Display** option at the bottom of the page, type the number you require, and then click **Refresh.**

Available individual instance actions

When you select one instance, you can perform any of the following actions:

- View Details
- Refresh Data
- Edit Instance Properties
- Edit Tags
- Export
- Decommission
- Disable Monitoring
- Remove
- Add SQL Server Instance
- Edit MS SQL License Info



Viewing instance details

You can access an instance details view by selecting the instance and clicking **View Details** on the action items bar or by clicking directly on the instance name. For more information about what information is available on the instance details view, refer to Viewing instance details.

Refresh Data

If you want to refresh the collected data for an instance, select the instance and click **Refresh Data** on the action items bar. You can also find this option by clicking the gear icon next to the respective instance. You can only perform this action for one instance at a time.

Edit instance properties

Select an instance and click **Edit Properties** on the action items bar. You can also find this option by clicking the gear icon next to the respective instance. On the properties dialog window you can change the owner, location, comments, and credentials. For more information go to Editing instances properties.

Edit Tags

By selecting an instance and clicking **Edit Tags** on the action items bar, SQL Inventory Manager opens a new dialog window where you can add new tags or change the currently assigned tags of the selected instance. You can also find this option by clicking the gear icon next to the respective instance. For more information about editing tags for a specific instance, go to Manage tags for a single instance.

More Actions

Under **More Actions** you can find additional options: Decommission, Disable Monitoring, Remove, and Add SQL Server instance.

Decommission

Using **More Actions**, select an instance and click **Decommission** on the action items bar to stop monitoring and alerting on that instance. You can also find this option by clicking the gear icon next to the respective instance. For more information about decommissioning an instance or database, see Decommissioned instances.

Disable Monitoring

If you want to disable the monitoring of an instance, select the instance, go to **More Actions**, and select **Disable Monitoring.** You can also find this option by clicking the gear icon next to the respective instance. For more information about disabling instances, click here.

Remove instance

If you no longer want to manage an instance, you can remove it by selecting the respective instance, going to **More Actions** on the action items bar, and selecting **Remove**. You can also find this option by clicking the gear icon next to the instance. SQL Inventory Manager displays all removed instances on the Ignored instances view. For more information about removing instances click here.

Add SQL Server instance

If you want to access the **Add SQL Server instance wizard,** go to **More actions** and select this option. The wizard opens and allows you to browse and register SQL Server instances.

Available bulk actions for multiple instances

Edit bulk properties

You can select several instances and change:

- Owner
- Location
- Credentials
- Tags

For example, if you have a new DBA, you can select all instances on this tab and click **Edit Owner** to change all instances owner at once.

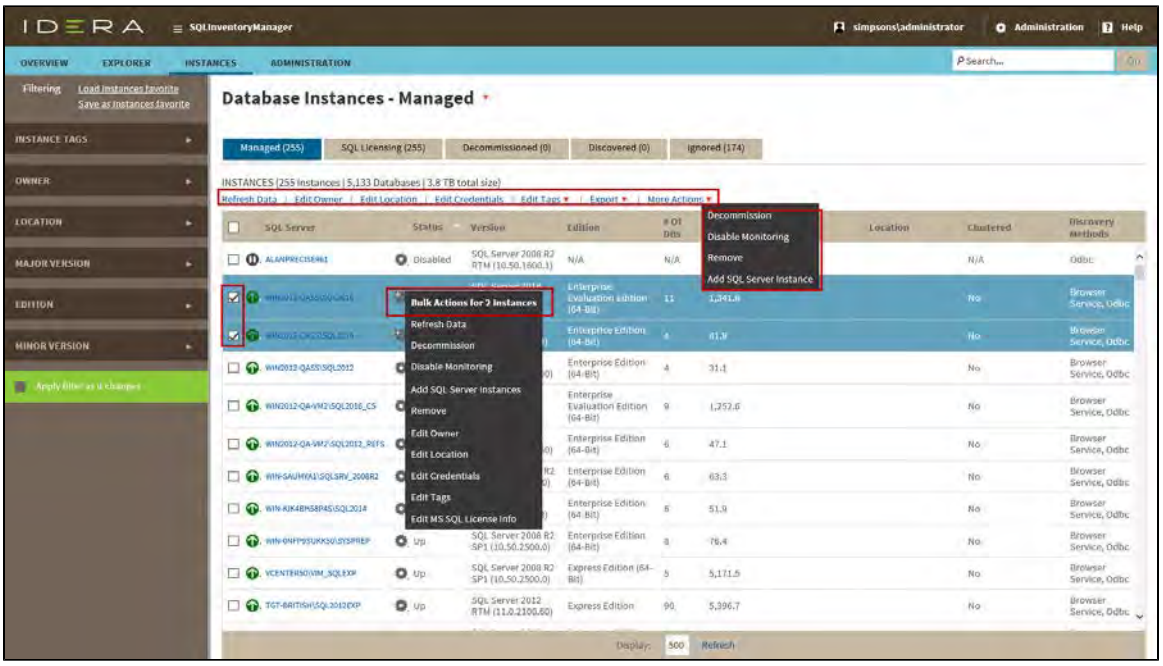
You can also perform the following actions under the **More Actions** option:

- Decommission
- Disable monitoring
- Enable monitoring
- Remove
- Add SQL Server instances

To bulk edit several instances, select the instances you want to change and follow any of these paths:

- Click the option you want to perform on the action items bar: **Refresh Data**, **Edit Owner**, **Edit Location**, **Edit Credentials**, **Edit Tags**, **Export**, and **More Actions** including **Decommission**, **Enable/Disable Monitoring**, **Remove**, and **Add SQL Server Instance**.
- Or click the gear icon next to one of the selected instances. SQL Inventory Manager opens

a dialog window that shows you on how many instances you are performing the changes.



Take into account that **Enable Monitoring** will only be available if you have disabled instances.

Exporting Instances view information

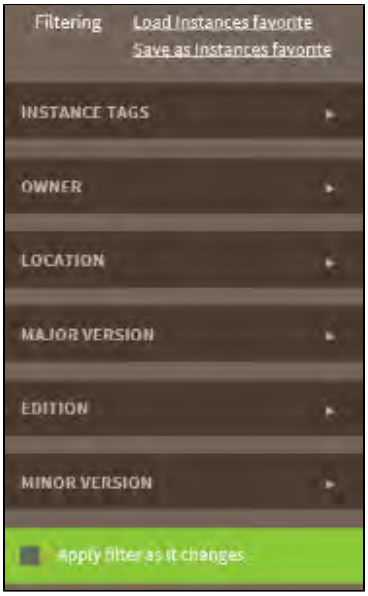
On the action items bar of the Managed Instances view, you can find the **Export** option which allows you to choose your preferred format for exporting the information available on this view. You can export as a **PDF**, **XLS**, or **XML** file. The filters you choose on this view will be taken into account for your exported reports.

Available filtering options

On the left side of the Instances view, you have options for filtering the instances that you want SQL Inventory Manager to display on your managed instances view. You can filter these instances by Tags, Owner, Location, and Version. These options will help you get a quick view of your required instances; for example, if you want to see your managed instances filtered by a specific Owner, just choose the respective option from the Owner filter.

Creating a useful filter to "weed out" unnecessary information takes time but is important when managing large environments. As a result, you may want to save that filter for future use. SQL Inventory Manager now allows you to save filters for use in the Explorer and Instances views. Simply create the filter, and then click **Save as Explorer favorite** or click **Save as Instances favorite**, depending on which view you are in when creating the filter. To use that filter, click **Loa d Explorer favorite** or click **Load Instances favorite**.

You can enable or disable the option **Apply filter as it changes** depending if you want to see the changes as you apply the filter, or if you prefer to select your filters first and see the results when you finish.



Tip

IDERA SQL Inventory Manager displays the filters you select on the top section of your managed instances view under **Filtered by**. You can remove filters from this section too.

Access from the Overview

You can also access the **Managed** instances section by clicking **Instances** on the right sidebar of the overview. For more information, go to Viewing information on the SQL Inventory Manager Overview.

IDERA SQL Inventory Manager lets you discover and visualize your SQL Server environment. Learn more > >

IDERA Website	Products	Purchase	Support	Community	About Us	Resources	Legal

SQL Server Licensing view

> Microsoft SQL SERVER licensing information provided within IDERA SQL Inventory Manager is based on your system information and is only for guidance.

IDERA SQL Inventory Manager gathers information that allows you to determine your SQL Server licensing requirements. The SQL Licensing view shows information like the instance version, edition, host computer name, CPU name, number of logical and physical processors, and whether the server is virtual. If your instance is using core licensing, this area also displays the number of sockets and cores, the core factor, and possible number of core licenses (number of cores multiplied by the core factor), whether this instance is fully licensed with SA, and a timestamp of the most recent change to the displayed information. To access this view, go to the **Instances** tab, and then click **SQL Licensing**.

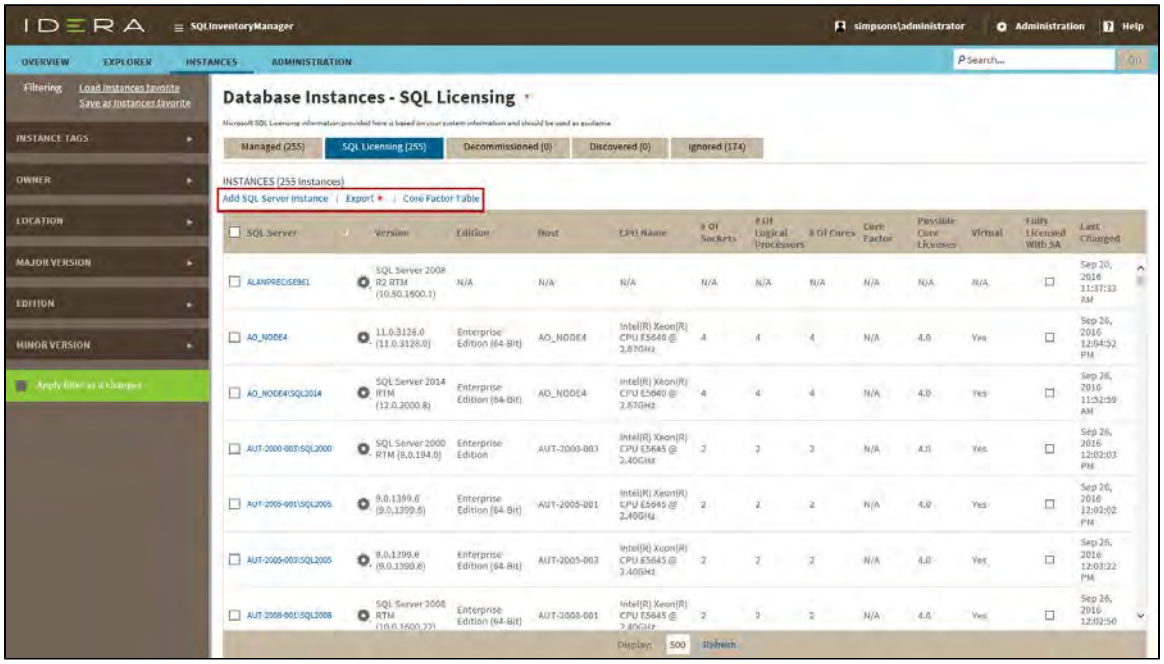
To find more information on how to determine Microsoft SQL Server licenses, refer to Microsoft Documentation.

> Decommissioned instances do not count against your license. For more information about decommissioning, see Decommissioned instances.

Available options

On the SQL Licensing view, there are multiple options available on the action items bar:

- **Add SQL Server instances**. Click this option to go to the respective wizard and add new SQL Server instances.
- **Export**. You can choose any of the following formats: **PDF**, **XLS**, or **XML** for exporting the information displayed on the SQL Licensing view.
- **Core Factor Table**. Click this option to open the Core Factor Table for viewing SQL Server core-specific information for your instances.



You can type on the bottom section of this view the number of instances you want IDERA SQL Inventory Manager to display per page. Click **Refresh** to apply the changes.

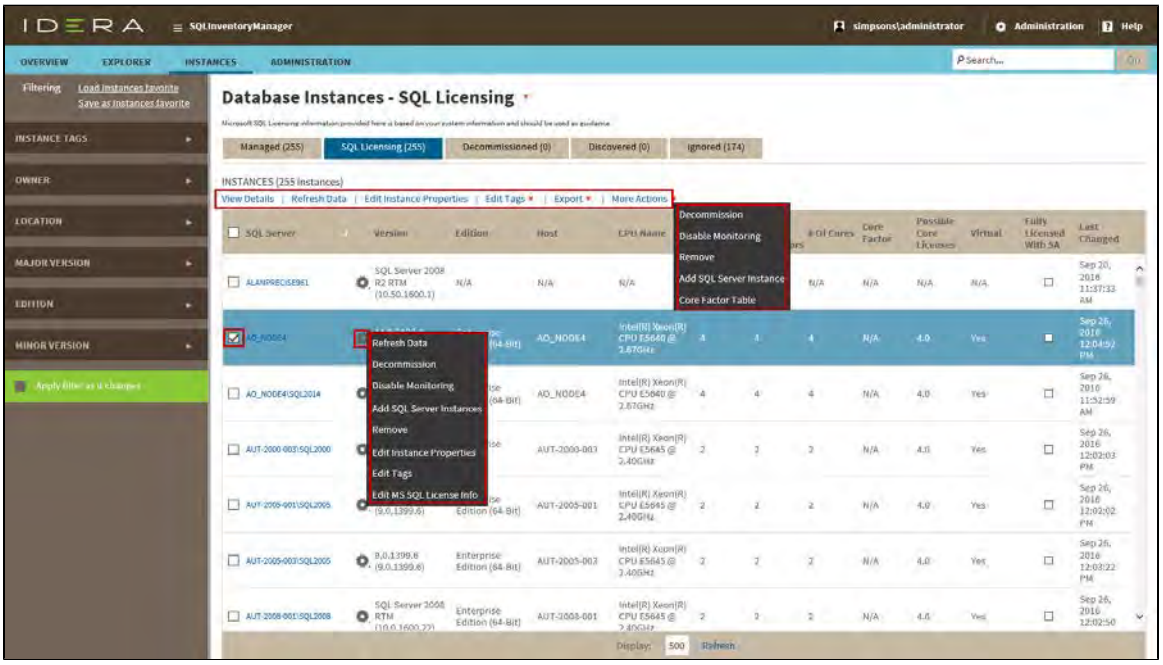
Options available for a single instance

On the SQL Licensing view, IDERA SQL Inventory Manager allows you to perform several actions on a single instance as well as bulk actions on several selected instances.

If you select one instance you can perform the following actions:

- View details
- Refresh data
- Edit instance properties (Owner, Location, Comments and Credentials)
- Edit Tags
- Export
- More actions: Decommission, Disable Monitoring, Remove, Add SQL Server instance, Core Factor Table, and Edit MS SQL license info.

You can also access most of these options from the gear icon next to the selected instance. To access the instance details view, you can click directly on the instance name.



Viewing instance details

You can access an instance details view by selecting the instance and clicking **View Details** on the action items bar or by clicking directly on the instance name. For more information about what information is available on the instance details view, refer to Viewing instance details.

Refresh Data

If you want to refresh the collected data for an instance, select the instance and click **Refresh Data** on the action items bar. You can also find this option by clicking the gear icon next to the

respective instance. You can only perform this action for one instance at a time.

Edit instance properties

Select an instance and click **Edit Properties** on the action items bar. You can also find this option by clicking the gear icon next to the respective instance. On the properties dialog window you can change the owner, location, comments, and credentials. For more information go to Editing instances properties.

Edit Tags

By selecting an instance and clicking **Edit Tags** on the action items bar, IDERA SQL Inventory Manager opens a new dialog window where you can add new tags or change the currently assigned tags of the selected instance. You can also find this option by clicking the gear icon next to the respective instance. For more information about editing tags for a specific instance, go to Manage tags for a single instance.

Export

You can export the information displayed in this view as a PDF, XLS, or XML format.

More Actions

Under **More Actions** you can find additional options: Decommission, Disable Monitoring, Remove, Add SQL Server instance, and Core Factor Table.

Decommission

Select an instance and click **Decommission** on the action items bar to stop monitoring and alerting on that instance. You can also find this option by clicking the gear icon next to the respective instance. For more information about decommissioning an instance or database, see Decommissioned instances.

Disable Monitoring

If you want to disable the monitoring of an instance, select the instance, go to **More Actions**, and select **Disable Monitoring.** You can also find this option by clicking the gear icon next to the respective instance. For more information about disabling instances, click here.

Add SQL Server instance

If you want to access the **Add SQL Server instance wizard**, go to **More actions** and select this option. The wizard opens and allows you to browse and register SQL Server instances.

Remove

If you no longer want to manage an instance, you can remove it by selecting the respective instance, going to **More Actions** on the action items bar, and selecting **Remove**. You can also find this option by clicking the gear icon next to the instance. IDERA QL Inventory Manager displays all removed instances on the Ignored instances view. For more information about removing instances click here.

Core Factor Table

If your instance is using SQL Server core licensing, you can view the current Core Factor Table values by selecting the appropriate instance, and then clicking **Core Factor Table**. These values are set by Microsoft and can help you calculate the number of possible core licenses for your physical servers. for more information about this feature, see Using the Core Factor Table.

The SQL Server Licensing view displays the following columns specific to core licensing:

- **# of Sockets**. Displays the number of cores per processor, whether physical or virtual.
- **# of Cores**. Displays the sum of all the cores on a system. For example, if a system includes six cores per processor and contains two processors, then the total # of cores is 12. note that the sum does not mix physical and virtual cores but displays each type as a separate line. Check the **Virtual** column for each row to determine if the core is virtual (displays "**Yes**") or physical (displays "**No**").
- **Core Factor**. Displays a numerical value that determines the number of core licenses necessary. While an administrator can change this value in the Core Factor Table, this number is provided by Microsoft based on the CPU in use.
- **Possible Core Licenses**. Displays the product of the total number of cores on a system multiplied by the **Core Factor**.
- **Fully Licensed with SA**. Check this box to remove the license count for the instance. You can also manage this setting in the Edit MS SQL Server License Information dialog box.
- **Last Changed**. Displays a timestamp of the most recent change to this record. Changed values include SQL Server major version, CPU name, number of processors, and total number of cores.

If you select several instances IDERA SQL Inventory Manager allows you to perform the following bulk actions on the selected instances:

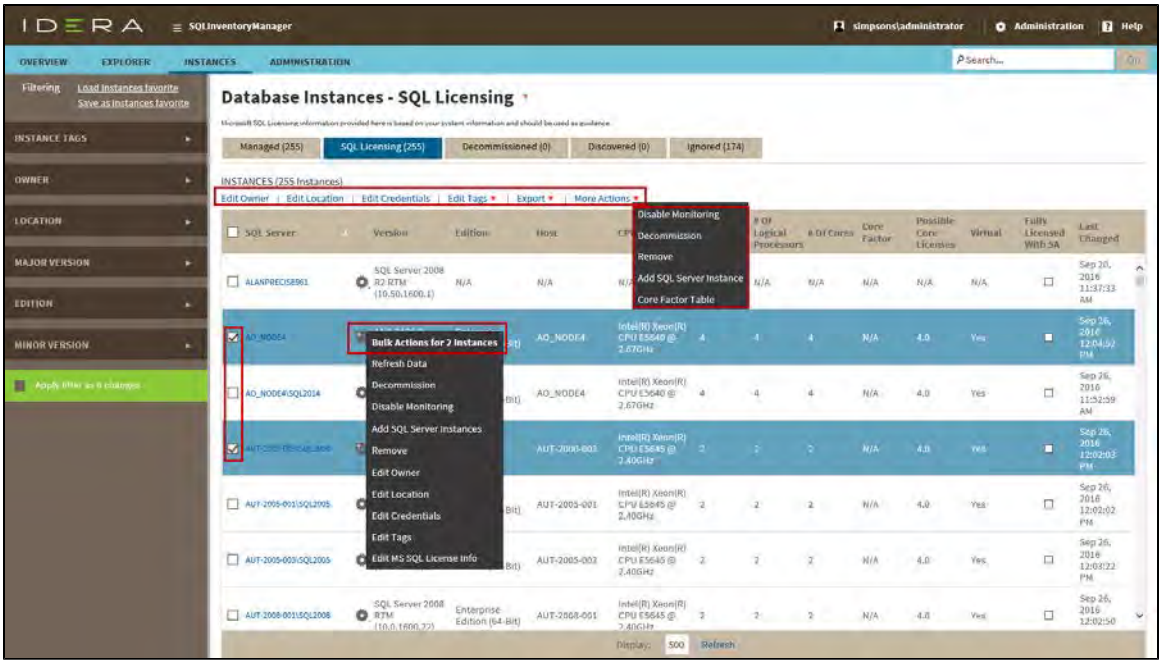
- Edit Owner
- Edit Location
- Edit Credentials
- Edit Tags
- Export
- More Actions (Disable Monitoring, Enable Monitoring, Decommission, Remove, Add SQL Server instances, and Core Factor Table)

For example, if you have a new DBA, you can select all instances on this tab and click **Edit Owner** to change all instances owner at once.

Options available for multiple instances

To bulk edit several instances, select the instances you want to change and follow any of these paths:

- Click the option you want to perform on the action items bar: **Edit Owner**, **Edit Location**, **Edit Credentials**, **Edit Tags**, **Export**, **Disable Monitoring**, **Decommission**, **Remove**, **Add SQL Server Instance**, and **Core Factor Table**.
- Or click the gear icon next to one of the selected instances. IDERA SQL Inventory Manager opens a dialog window that shows you on how many instances you are performing the changes.



Exporting from the SQL Licensing view

On the action items bar of the SQL Licensing view, you can find the **Export** option which allows you to choose your preferred format for exporting the information available on this view. You can export as a **PDF**, **XLS**, or **XML** file. The filters you choose on this view will be taken into account for your exported reports.

Filtering on the SQL Licensing view

On the left section of this view you can find options for filtering your instances by Tags, Owner, Location, and Version. Use these filters to quickly access specific instances that you want IDERA SQL Inventory Manager to display on this view. For example, you can choose to display the licensing information of instances that have a specific tag in your environment.

Creating a useful filter to "weed out" unnecessary information takes time but is important when managing large environments. As a result, you may want to save that filter for future use. IDERA SQL Inventory Manager now allows you to save filters for use in the Explorer and Instances views. Simply create the filter, and then click **Save as Explorer favorite** or click **Save as Instances favorite**, depending on which view you are in when creating the filter. To use that filter, click **Load Explorer favorite** or click **Load Instances favorite**.

You can enable or disable the option **Apply filter as it changes** depending if you want to see the changes as you apply the filter, or if you prefer to select your filters first and see the results when you finish.

Tip

IDERA SQL Inventory Manager displays the filters you select on the top section of your managed instances view under **Filtered by**. Yo u can remove filters from this section too.

IDERA SQL Inventory Manager lets you discover and visualize your SQL Server environment. Learn more > >

IDERA Website	Products	Purchase	Support	Community	About Us	Resources	Legal

Decommissioned instances

IDERA SQL Inventory Manager users can mark instances and databases as "decommissioned" within the product, thereby preventing erroneous alerting yet retaining the data for historical purposes. Decommissioned items are not monitored, do not trigger alerts or recommendations, and do not count against your IDERA SQL Inventory Manager license. The data stored before an item is decommissioned remains in the repository database, but is only included in the Decommissioned tab in the Instances view and the Decommissioned Databases list at the bottom of the Instance Details view.

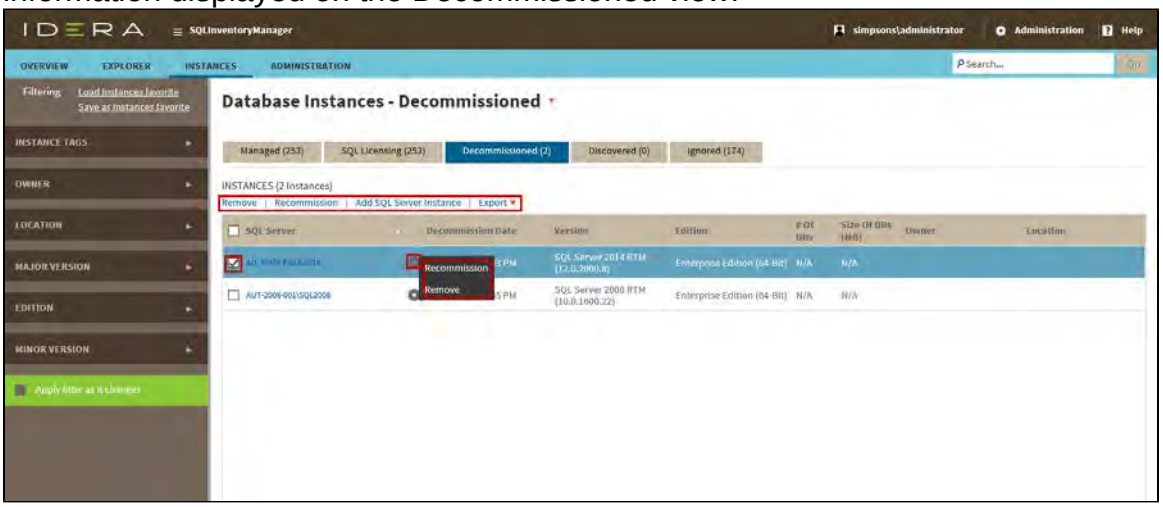
The Decommissioned tab and the Decommissioned Databases list show information about decommissioned items such as the name, timestamp of decommission, SQL Server version and edition (Instance only), recommendations (Databases only), and more. To access the Decommissioned tab, go to the **Instances** tab, and click **Decommissioned**.

Users who decommission or recommission instances and databases must be administrators within IDERA SQL Inventory Manager.

Available options

On the Decommissioned view there are two options available on the action items bar:

- **Add SQL Server instances** . Click this option to go to the respective wizard and add new SQL Server instances.
- **Export**. You can choose any of the following formats: PDF, XLS, or XML for exporting the information displayed on the Decommissioned view.



You can type on the bottom section of this view the number of instances you want IDERA SQL Inventory Manager to display per page. Click **Refresh** to apply the changes.

Options available when you select instances

On the Decommissioned view, IDERA SQL Inventory Manager allows you to perform several actions on a single instance as well as bulk actions on several selected instances.

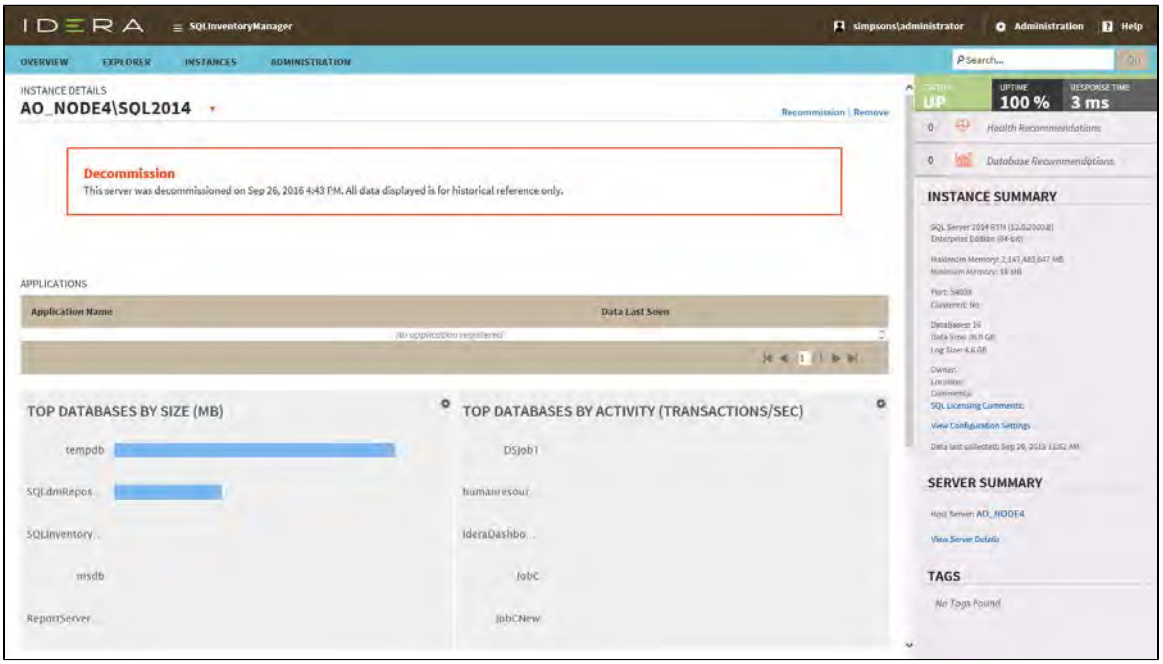
If you select one or more instances, you can perform the following actions:

- Recommission
- Remove

You can also access most of these options from the gear icon next to the selected instance. To access the instance details view, you can click directly on the instance name.

Viewing instance details

You can access an instance details view by clicking directly on the instance name. For more information about what information is available on the instance details view, refer to Viewing instance details. Decommissioned instances display a large message including the timestamp when the instance was decommissioned and to remind the user that all displayed data is for historical purposes only.



Remove

If you no longer want to manage an instance, you can remove it by selecting the respective instance, going to **More Actions** on the action items bar, and selecting **Remove**. You can also find this option by clicking the gear icon next to the instance. IDERA SQL Inventory Manager displays all removed instances on the Ignored instances view. For more information about removing instances click here.

Recommission

Select an instance and click **Recommission** on the action items bar. You can also find this option by clicking the gear icon next to the respective instance. On the confirmation message dialog, verify the correct instance(s) appears, and then click **Yes**. Note that the instance disappears from the Decommissioned tab and appears on the Managed tab. Remember that this instance is now active and does count against your IDERA SQL Inventory Manager license.

Add SQL Server instance

If you want to access the **Add SQL Server instance wizard**, click **Add SQL Server instance**. The wizard opens and allows you to browse and register SQL Server instances.

Exporting from the Decommissioned view

On the action items bar of the Decommissioned view, you can find the **Export** option which allows you to choose your preferred format for exporting the information available on this view. You can export as a **PDF**, **XLS**, or **XML** file. The filters you choose on this view will be taken into account for your exported reports.

Filtering on the Decommissioned view

On the left section of this view you can find options for filtering your instances by Instance Tags, Owner, Location, Minor Version, and Major Version. Use these filters to quickly access specific instances that you want IDERA SQL Inventory Manager to display on this view. For example, you can choose to display the list of decommissioned instances that have a specific tag in your environment.

Creating a useful filter to "weed out" unnecessary information takes time but is important when managing large environments. As a result, you may want to save that filter for future use. IDERA SQL Inventory Manager now allows you to save filters for use in the Explorer and Instances views. Simply create the filter, and then click **Save as Explorer favorite** or click **Save as Instances favorite**, depending on which view you are in when creating the filter. To use that filter, click **Load Explorer favorite** or click **Load Instances favorite**.

You can enable or disable the option **Apply filter as it changes** depending if you want to see the changes as you apply the filter, or if you prefer to select your filters first and see the results when you finish.

Tip

IDERA SQL Inventory Manager displays the filters you select on the top section of your managed instances view under **Filtered by**. You can remove filters from this section too.

IDERA SQL Inventory Manager lets you discover and visualize your SQL Server environment. Learn more > >

IDERA Website	Products	Purchase	Support	Community	About Us	Resources	Legal

Discovered instances

IDERA SQL Inventory Manager continuously searches your network to find new SQL Server instances. To see newly discovered instances, go to the **Discovered** view on the **Instances** tab. IDERA SQL Inventory Manager shows you a list of those instances not yet monitored in your environment. From this view you can add or ignore instances.

Note

If you have the auto-registration option enabled, newly discovered instances will be automatically registered according to your settings in the Auto registration options. Those instances that were discovered before this option was enabled will remain on the Discovered view.

IDERA SQL Inventory Manager does not discover instances hosted on Amazon Web Services or Azure. You must manually add these instances.

Actions available on the Discovered instances view

Ignoring instances

You can choose to ignore any of these discovered instances. For this purpose, mark the checkbox next to the instance you want to ignore, and click **Ignore** on the action items bar.

IDERA SQL Inventory Manager no longer shows the ignored instances on the Discovered view but adds them to the Ignored view.

Auto registration options

Use these options to automatically register SQL Server instances as they are discovered. On this dialog window you can choose which SQL Server editions you want to exclude from auto registration.

Discover instances

Use this option to start a job to discover instances. Take into account that this process may take some time to complete. When you select to discover instances, IDERA SQL Inventory Manager displays two options:

- **Discover Instances Browser Service** - lets you discover instances by using "System.Data.Sql.SqlDataSourceEnumerator" which enumerates all available SQL Server instances within the local network.
- **Discover Instances Odbc** - lets you discover instances using "odbc32.dll" which gets the instances list from the system's registry data.

Adding instances

If you want to register some of these instances, select the respective checkboxes of the instances you want to add, and then click **Add SQL Server Instance** on the action items bar.

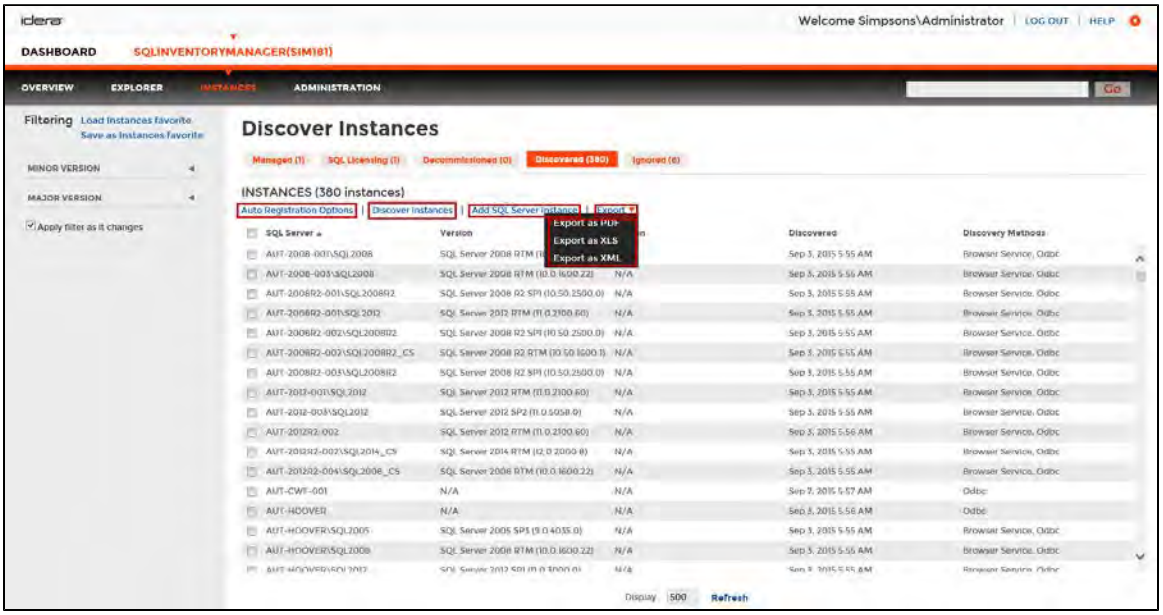
IDERA SQL Inventory Manager opens the wizard for adding new SQL Server instances, and automatically adds the names of the instances you selected before. For more information on how to register SQL Server instances, go to Adding SQL Server instances.

Tip

On the Discovered view, you can find the Microsoft SQL version and edition next to the instances status to help you decide which instances you want to add or ignore.

Export reports

If you want to export the information displayed on the Discovered Instances view, go to the **Export** option, located on the action items bar, and select your preferred format (**PDF**, **XLS**, or **XML**) for exporting.

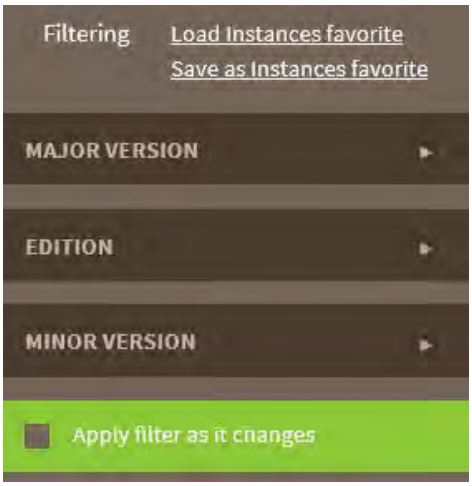


Available options on the Discovered Instances view

On the left side of the Discovered Instances view you have the option for filtering instances by **Minor Version** or **Major Version**. If you want to filter by specific versions, select them from this section.

Creating a useful filter to "weed out" unnecessary information takes time but is important when managing large environments. As a result, you may want to save that filter for future use. IDERA SQL Inventory Manager now allows you to save filters for use in the Explorer and Instances views. Simply create the filter, and then click **Save as Explorer favorite** or click **Save as Instances favorite**, depending on which view you are in when creating the filter. To use that filter, click **Load Explorer favorite** or click **Load Instances favorite**.

Enable or disable the option **Apply filter as it changes** depending if you want to see the changes as you apply the filters, or if you prefer to select your filters first and see the results when you finish.



Tip

IDERA SQL Inventory Manager displays the filters you select on the top section of your Discovered instances view under **Filtered by**. You can remove filters from this section too.

Tip

You can set the number of instances you want IDERA SQL Inventory Manager to show per page, go to the **Display** option at the bottom of this view, type the number you want, and click **Refresh**.

Manage your discovery options

If you want to configure the discovery job, go to the Administration tab and click **Manage Discovery Options** on the Discovery section. On this dialog window you can specify not only those IP address ranges and domains where you want IDERA SQL Inventory Manager to perform the discovery job, but also you can choose which methods you want to use to search in each computer. You can schedule your discovery jobs, add IP address ranges and those domains that IDERA SQL Inventory Manager will use in discovery.

For more information on how to configure your manage discovery options, click here.

Access from the Dashboard

You can also access the **Discovered** instances section by clicking **New Instances** on the right sidebar of the overview. For more information, go to Viewing information on the SQL Inventory Manager Overview.

IDERA SQL Inventory Manager lets you discover and visualize your SQL Server environment. Learn more > >

IDERA Website	Products	Purchase	Support	Community	About Us	Resources	Legal

Ignored instances

While IDERA SQL Inventory Manager continuously searches your network for new SQL Server instances, you may not always want to manage all these instances. By ignoring instances, you take them out of the **Discovered** view and IDERA SQL Inventory Manager adds them to the **Ignored** view.

The **Ignored** instances view also contains those instances that you were previously monitoring but then you decided to remove. For more information on how to remove instances, refer to Removing instances.

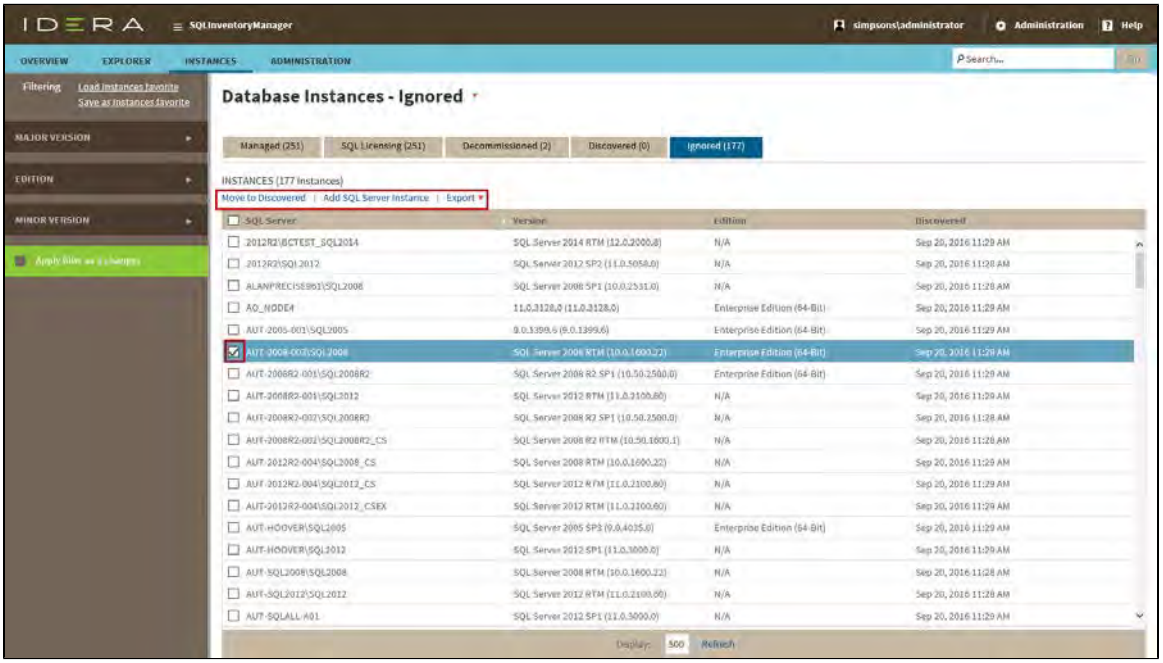
You can perform the following actions on your ignored instances:

- Move to Discovered
- Add SQL Server Instance

To perform any of these options, select your instances, and click **Add SQL Server Instance** or **Move to Discovered** respectively.

Exporting reports

You can also export the information available on the Ignored instances view, just go to the **Export** option, located on the action items bar, and select your preferred format for exporting (**PDF**, **XLS**, or **XML**).



Tip

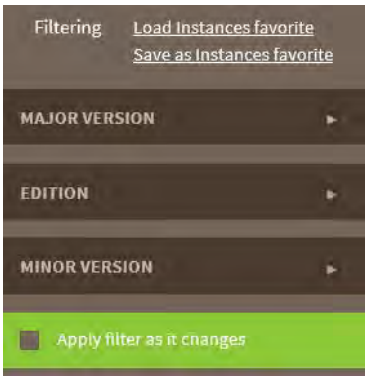
You can set the number of instances you want IDERA SQL Inventory Manager to show per page. Go to the **Display** option at the bottom of this view, type the number you want, and click **Refresh.**

Filtering options

On the left side of the Discovered Instances view you have the option for filtering instances by **Minor Version** or **Major Version**. If you want to filter by specific versions, select them from this section.

Creating a useful filter to "weed out" unnecessary information takes time but is important when managing large environments. As a result, you may want to save that filter for future use. IDERA SQL Inventory Manager now allows you to save filters for use in the Explorer and Instances views. Simply create the filter, and then click **Save as Explorer favorite** or click **Save as Instances favorite**, depending on which view you are in when creating the filter. To use that filter, click **Load Explorer favorite** or click **Load Instances favorite**.

Enable or disable the option **Apply filter as it changes** depending if you want to see the changes as you apply the filters, or if you prefer to select your filters first and see the results when you finish.



Tip

IDERA SQL Inventory Manager displays the filters you select on the top section of your Discovered instances view under **Filtered by**. You can remove filters from this section too.

Tip

You can set the number of instances you want IDERA SQL Inventory Manager to show per page, go to the **Display** option at the bottom of this view, type the number you want, and click **Refresh**.

IDERA SQL Inventory Manager lets you discover and visualize your SQL Server environment. Learn more > >

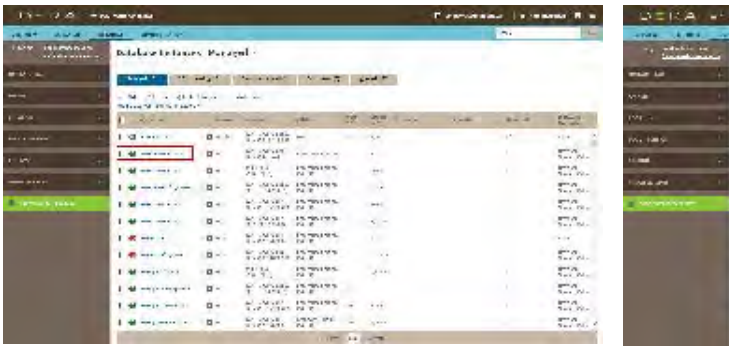
IDERA Website	Products	Purchase	Support	Community	About Us	Resources	Legal

Viewing instance details

After you register an instance in IDERA SQL Inventory Manager, you can view the instance details on the following sections:

- **Overview** - The Instance Details view appears when you click an instance name.
- **Instances** tab > **Managed** view - The Instance Details view appears when you click an Instance name.
- **Instances** tab > **SQL Licensing** view - The Instance Details view appears when you an Instance name.

Below you can see the tabs and sections where you can access the Instance Details view. Click the image to view full size.



The Instance Details view allows you to get health checks recommendations for that instance, information about its databases, bar graphs, other relevant information, and also get access to computer and configuration details.

IDERA SQL Inventory Manager lets you discover and visualize your SQL Server environment. ***Learn more > >***

IDERA Website	Products	Purchase	Support	Community	About Us	Resources	Legal

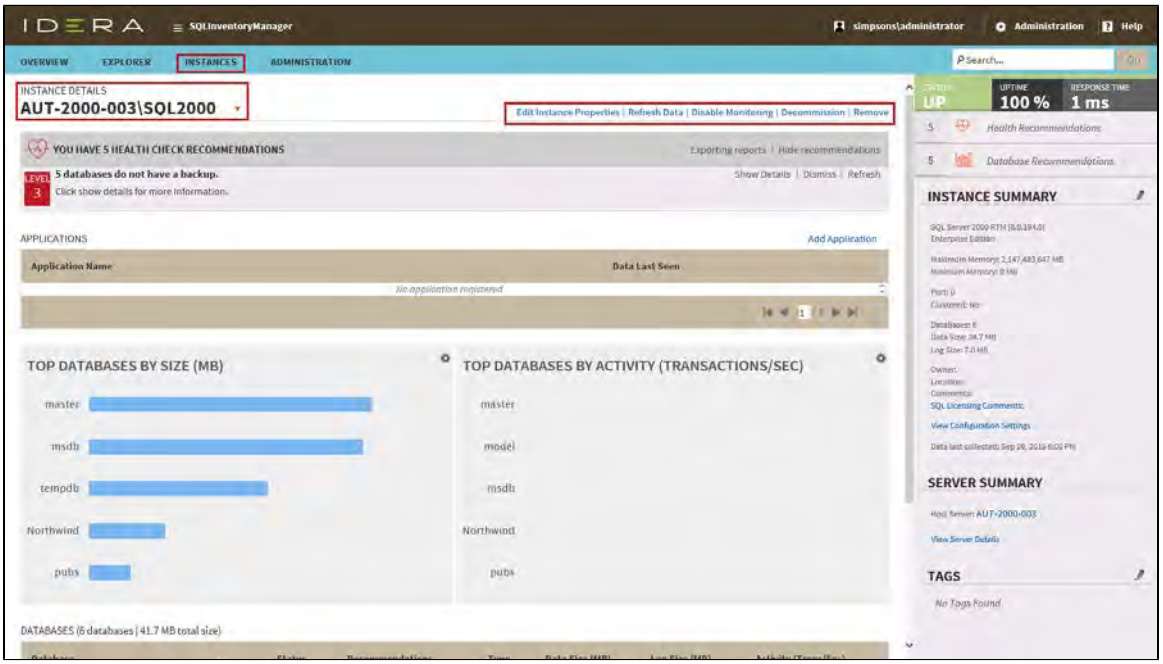
Information available on Instance Details

The Instance Details view allows you to see specific information for an instance. SQL Inventory Manager displays the instance health check recommendations, top databases, relevant information, and also allows you to get access to the instance host server computer details and configuration settings.

Additionally, on the actions items bar, you can find the following options:

- **Edit Instance Properties** - Allows you to change select properties for this instance.
- **Refresh data** - Forces the system to collect data off-schedule so you can have the latest information for this instance.
- **Disable Monitoring** - Allows you to temporarily stop monitoring this instance.
- **Decommission / Recommission** - Allows you to decommission or recommission this instance.
- **Remove** - Allows you to remove instances that you no longer want to monitor.

If you click the drop-down arrow next to the instance name, you can choose a different instance to access its respective details.



Information available on the Instance Details view

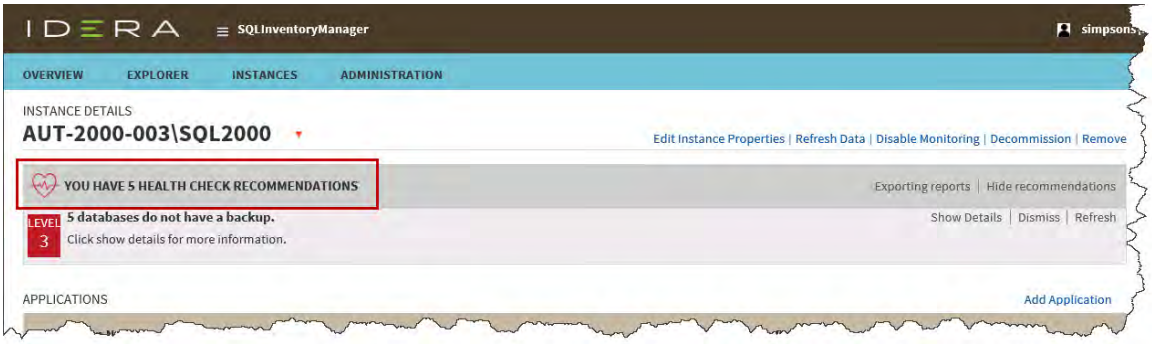
Health Check Recommendations

This section provides you with specific health check recommendations for the selected instance. SQL Inventory Manager groups these health checks by type, and orders them by level of criticality; where:

- Level 3 = Critical
- Level 2 = Warning
- Level 1 = Informational

You can choose to show details, hide details, dismiss, or refresh any health check

recommendation. You can also export this information according to your required format. For more information on how to view health check recommendations for a specific instance, refer to Viewing Health Check Recommendations for a specific instance.



Health Check Recommendations

To view what health checks are performed by SQL Inventory Manager, refer to What Health Checks are available in SQL Inventory Manager?

Applications

SQL Inventory Manager periodically takes a sampling of the applications connecting to each SQL Server instance. This sampling occurs approximately once every hour. The Applications list on the Instance Details view includes the name of the application along with the timestamp of the most recent sampling that included that application. You can also manually add an application to track using **Add Application**. For more information about this feature, see Manage instance applications.

Click the gear icon next to the application name to select one of the following options:

- **Create Application Alias** - Change the default name of the application to an alias that displays in the Applications list.
- **Hide** - Allows you to prevent SQL Inventory Manager from displaying this application in the list. Click **Unhide** to display any hidden applications.

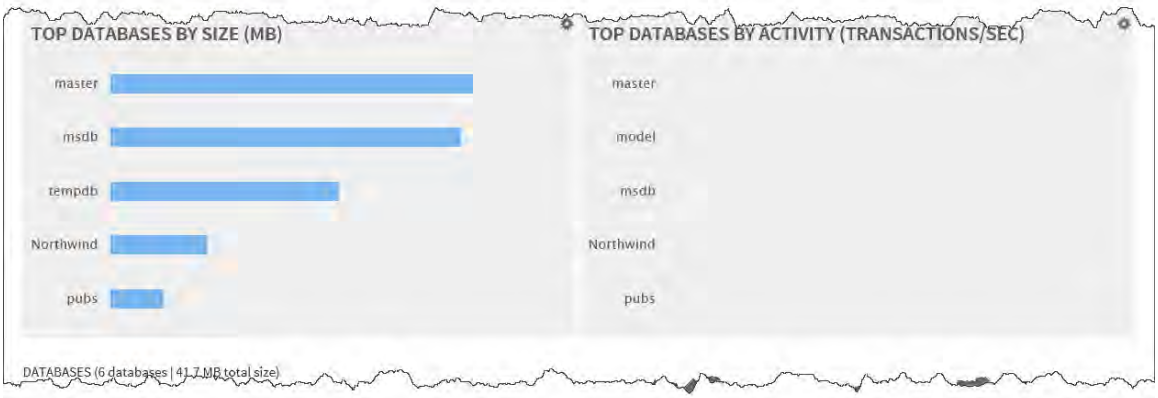
Top bar graphs

These graphs provide insight of the most important databases for your instance, based on databases size and how busy they are (transactions per second).

SQL Inventory Manager shows you the following bar graphs:

- Top Databases by Size (MB)

- Top Databases by Activity (Transactions per second)



Instance summary and status

On the right side of the Instance Details view, you can see a section that provides general information for your instance.

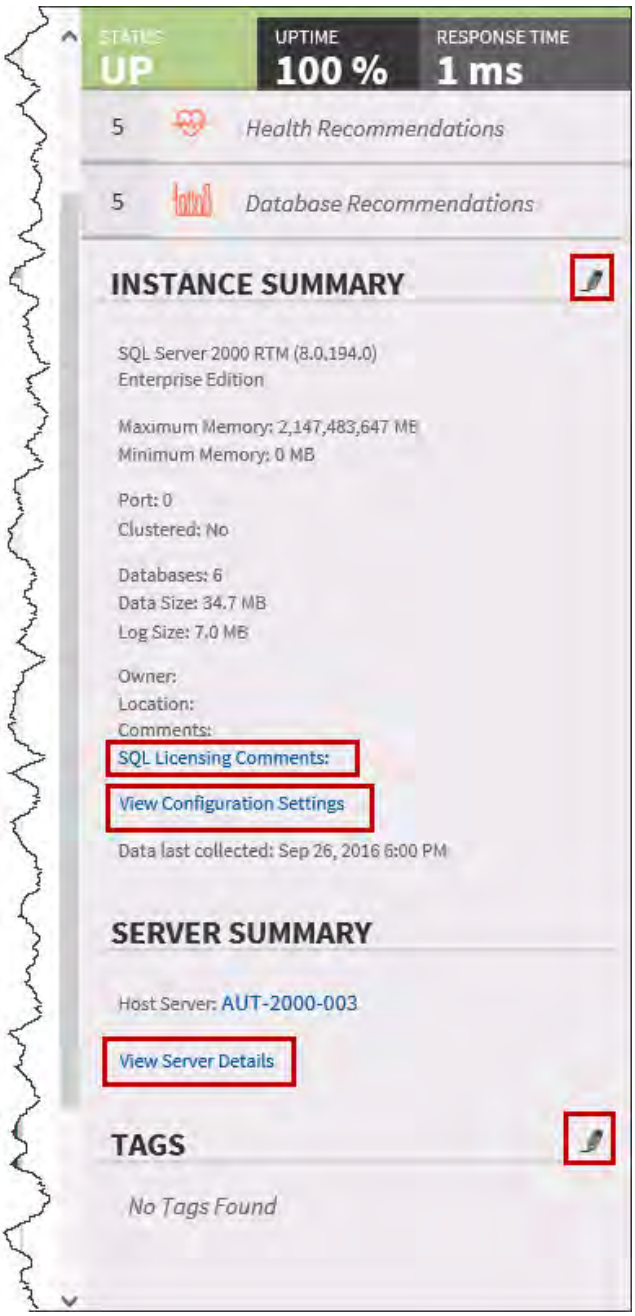
On this sidebar, you can see the following information for this instance:

- status (up or down)
- up time and response time status
- number of health check recommendations
- number of database recommendations
- summary of the instance details including:
  - Microsoft SQL Server version
  - maximum and minimum memory
  - port information
  - whether the instance is clustered
  - number of databases
  - data size
  - log size
  - owner
  - location
  - comments
  - custom inventory fields (click the pencil icon to change the field values. For more information, see How to manage custom inventory fields.)
  - configuration settings (for more information go to View configuration settings)
  - date and time of last data collection
- summary of the host machine details including:
  - host machine name
  - applied inventory tags (click the pencil icon to access the Inventory Tag information)
  - server details (for more information go to Computer Details)
- associated tags (click the pencil icon to access the Managing tags for an instance window where you can add new tags or choose other tags for this instance)

Take into account that SQL Inventory Manager rounds off data so there may be minor discrepancies between the size data displayed in the Instance Summary and Databases section of the Instance Details view.

Edit instance properties

Click the pencil icon next to the **Instance Summary** title and you can access the options for editing your instance properties such as owner, location, comments, and credentials. For more information, refer to Edit instance properties.



Instance Databases

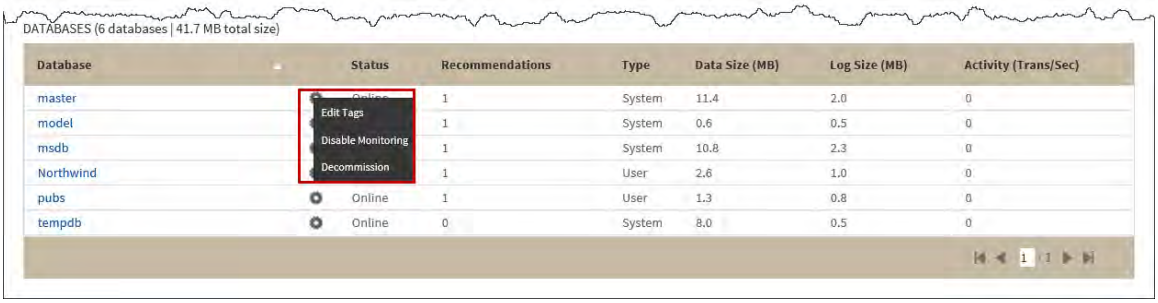
At the bottom section of the Instance Details view, SQL Inventory Manager displays a list of all databases available as well as any decommissioned databases on this instance.

The Databases list shows you information about the status, number of recommendations, type, data size, log size, and activity for each database.

Click the gear icon next to the database name to select one of the following options:

- **Edit Tags** - Access your database tags to add or assign new tags to your selected database.
- **Disable Monitoring** - Temporarily stop monitoring of this instance. When you choose this option, you will no longer receive alert notifications from this database until you enable its monitoring again.
- **Decommission** - Allows you to decommission this database. Decommissioned databases appear below the Databases list.

If you click directly on the database name, you can access the **Database Details**. For more information on what is available on these details, go to Viewing Database Details.



The Decommissioned Databases list shows you information about the decommission date, recommendations, database type, size, and activity for each database.

Click the gear icon next to the decommissioned database to select one of the following options:

- **Recommission** - Returns the database to a monitored state.
- **Remove** - Removes the database from the instance.

If you click directly on the database name, you can access the Database Details. for more information on what is available on these details, go to Viewing Database Details.

IDERA SQL Inventory Manager lets you discover and visualize your SQL Server environment. Learn more > >

IDERA Website	Products	Purchase	Support	Community	About Us	Resources	Legal

Viewing Health Check Recommendations for a specific instance

When you go to the IDERA SQL Inventory Manager Instance Details view for a specific instance, you can find a report of the health check recommendations. These health check recommendations are grouped by type and ordered by level of criticality; where:

- Level 3 = Critical
- Level 2 = Warning
- Level 1 = Informational

You can click **Show Details** or click the name of the health check recommendation to access the following options:

- List of databases affected by the health check
- Individually **Dismiss** the health check recommendation for a database
- Individually **Refresh** the status of a database
- Knowledge base of the health check recommendation
- Link to more information about the health check recommendation

If you do not want to see these details, click **Hide Details**. To hide all health check recommendations for this instance, click **Hide recommendations** on the action items bar.

You can also **Dismiss** or **Refresh** at the level of the whole health check recommendation.

Dismissing health check recommendations

When you dismiss a health check recommendation, you do it temporarily and IDERA SQL Inventory Manager ignores it until the health check passes and goes into an alert status again.

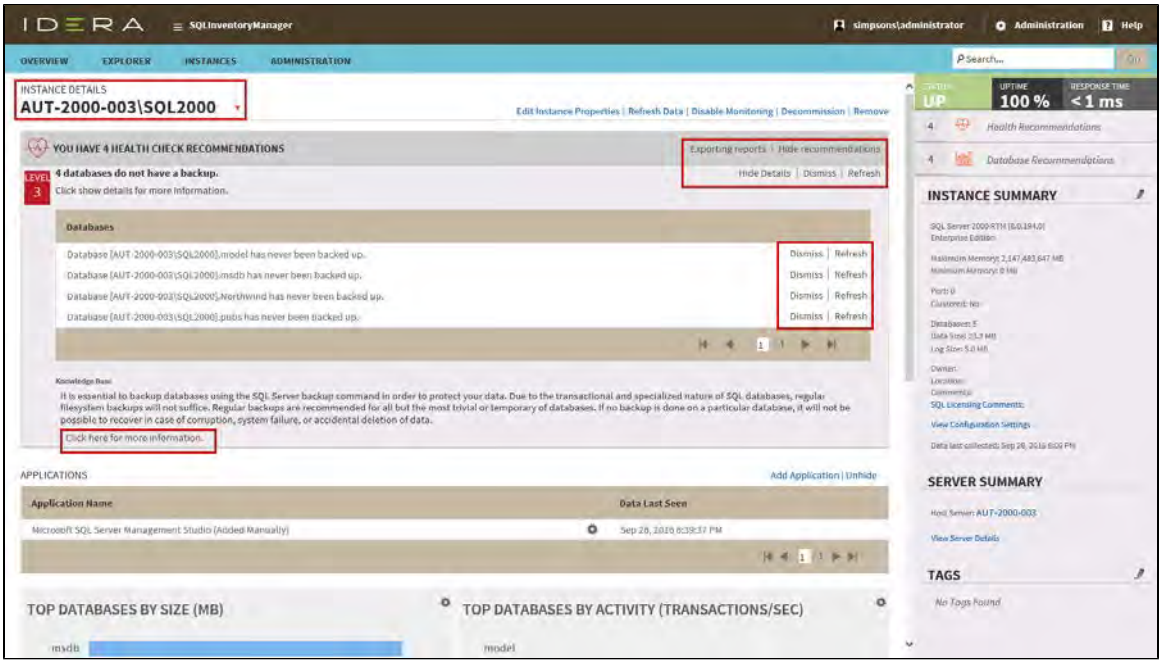
Exporting Health Check Recommendations

If you want to export Health Check Recommendations, click **Export** on the action items bar and choose from the following options:

- Export summary of recommendation categories
- Export details for all recommendations
- Export details for selected categories

Then choose the format for exporting: **PDF**, **XLS**, or **XML**. Click **Export**.

IDERA SQL Inventory Manager allows you to export the specific information that you need for the instance that you select so you can perform a better assessment of your environment. For more information about exporting in IDERA SQL Inventory Manager, click here.



Tip

When you dismiss a health check recommendation, a dialog window opens to confirm this action, you can enable the option **Do not show this warning again** so that IDERA SQL Inventory Manager does not prompt this warning message every time you dismiss a health check recommendation.

IDERA SQL Inventory Manager lets you discover and visualize your SQL Server environment. Learn more > >

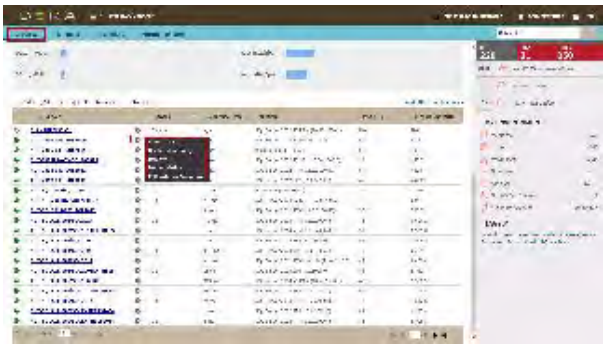
IDERA Website	Products	Purchase	Support	Community	About Us	Resources	Legal

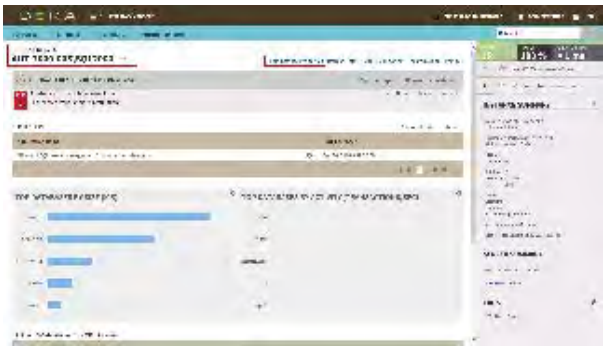
Edit instance properties

When you register an instance, you define certain properties such as credentials, owner, location, and comments. You can change this information from the **Edit Instance properties** win dow. To access this window, go to any of the following views:

- **Overview** tab - The **Edit properties** option is located on the gear icon next to the instance you want to edit.
- **Instance details** view - The **Edit Properties** option is located on the action items bar.
- **Instances** tab > **Managed** view - **Edit properties** option on the gear icon menu next to the selected instance or on the action items bar.
- **Instances** tab > **SQL Licensing** view - **Edit properties** option on the gear icon menu next to the selected instance or on the action items bar.

Below you can see the tabs and sections where you can find **Edit instance properties**. Click the image to view full size.





Tip

On the **Instances** view, on the **Managed** instances section, you can also select several instances at once and click **Edit Owner**, **Edit Location**, or **Edit Credentials** for a faster edition of these fields. For more information about what you can do on the **Managed** Insta nces view, refer to Managed instances.

Editing Owner, Location and Comments

You can define owner, location, and comments when you register an instance; however, if you did not typed them before, or you want to change any of these fields, go to the respective sections on the **Edit instance properties** window, make the necessary changes, and then click **SAVE.**

SQL connection credentials

These credentials allow you to connect to SQL Server instances to collect availability, capacity, and configuration data. When you register an instance, you define these credentials; however, you can change them later on the **Edit instance properties** window.

You can choose between an IDERA SQL Inventory Manager service account, a Windows user account, or a SQL Server login account. The last two options require that you provide the respective login and password.

Note

When IDERA SQL Inventory Manager has the auto-registration option enabled, it uses the IDERA SQL Inventory Manager service account as the default SQL connection credentials.

WMI connection credentials

These credentials allow you to connect to the computer that hosts the SQL Server instance, and collect its performance and computer details. When you register an instance, you define these credentials; however, you can change them later on the **Edit instance properties** window.

You can choose between an IDERA SQL Inventory Manager service account or a Windows user account. You need to provide a login and password for the Windows user account.

Note

When IDERA SQL Inventory Manager has the auto-registration option enabled, it uses the IDERA SQL Inventory Manager service account as the default WMI connection credentials.

Minimum requirements

For more information on what permissions you need for any of these accounts, see Required accounts and permissions.

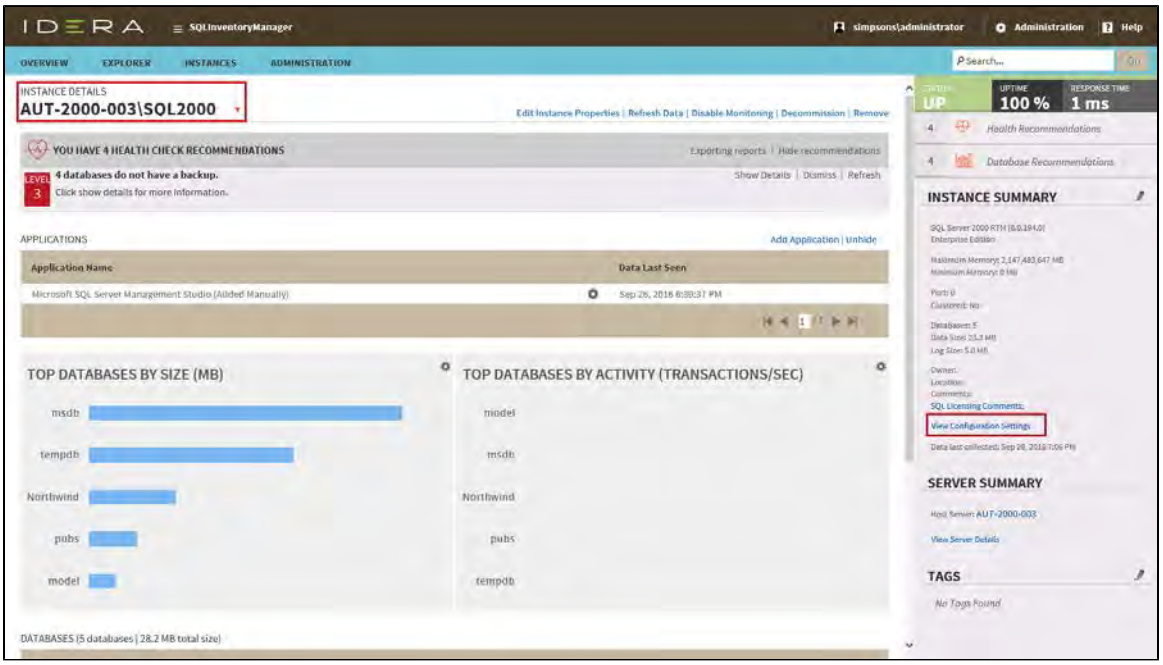
IDERA SQL Inventory Manager lets you discover and visualize your SQL Server environment. Learn more > >

IDERA Website	Products	Purchase	Support	Community	About Us	Resources	Legal

View Configuration Settings

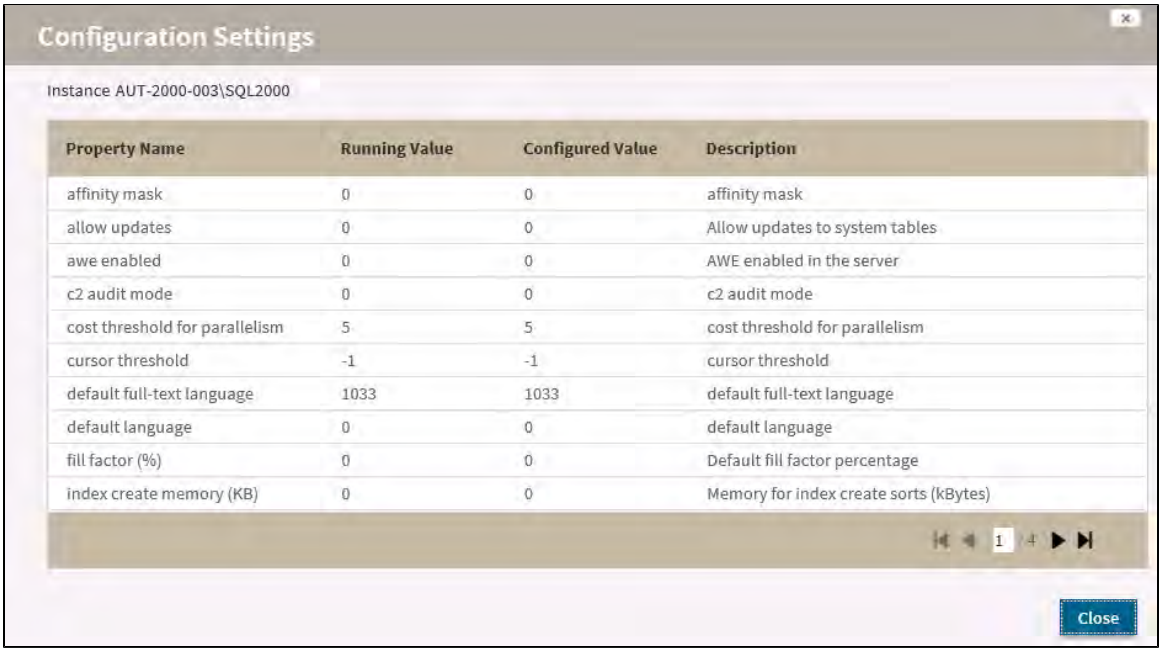
IDERA SQL Inventory Manager provides you a view of the configuration settings for the SQL Server instances that you choose to monitor. The configuration settings window shows you the global configuration settings for the selected SQL Server instance.

To access this information, go to the **Instance Details** view. On the right sidebar of the window, on the **Instance Summary** section, click **View Configuration Settings** and IDERA SQL Inventory Manager opens a window with the configuration settings of the respective instance.



The **Configuration Settings** window shows you the following information:

- Property Name
- Running Value
- Configured Value
- Description



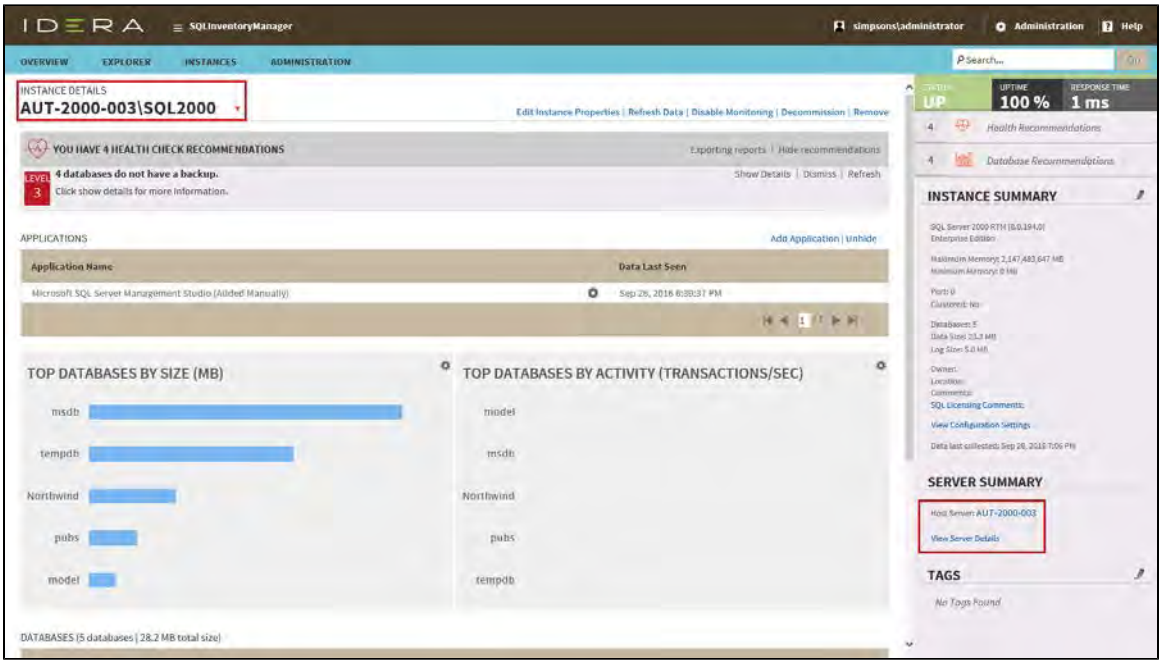
IDERA SQL Inventory Manager lets you discover and visualize your SQL Server environment. Learn more > >

IDERA Website	Products	Purchase	Support	Community	About Us	Resources	Legal

View Computer Details

IDERA SQL Inventory Manager provides you with the computer details of your SQL Server instance host machines.

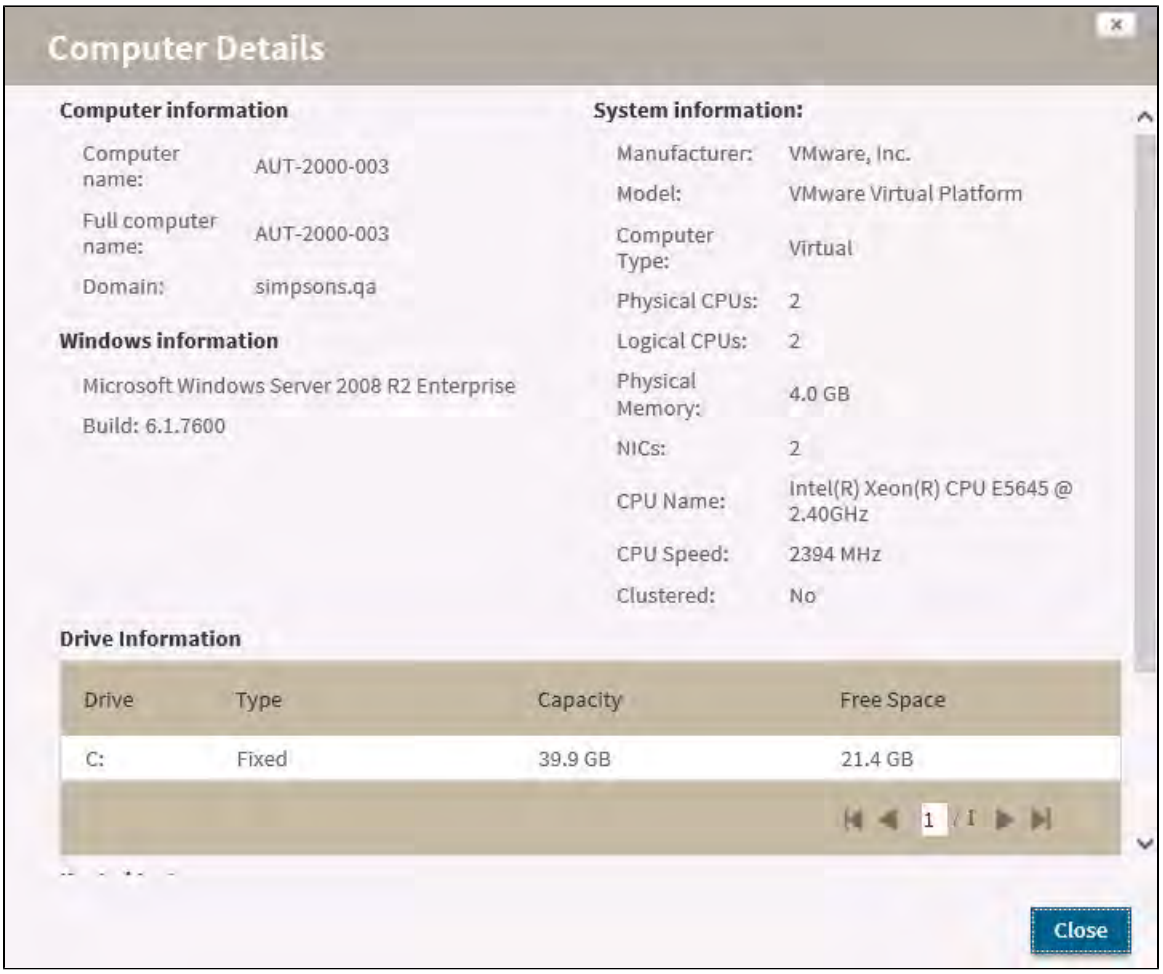
To access this information, go to the **Instance details** view, and review the information in the Server Summary section. Click **View Server Details** or click the name of the **Host Server** and SQL Inventory Manager opens a window with the respective computer details. Also note the custom inventory fields included above the **View Server Details** button. Click the pencil icon to change this value. For more information about this feature, see How to manage custom inventory fields.



On this window you can get the following information:

- **Computer information**
  - Computer name
  - Full computer name
  - Domain
- **Windows information**
  - Windows version
- **System information**
  - Manufacturer
  - Model
  - Computer Type
  - Physical and Logical CPUs
  - Physical Memory
  - Number of Network Interface Cards (NICs)
  - CPU Name
  - CPU Speed
  - Whether the computer is clustered
- **Drive information** - All drives, type, their capacity, and respective free space.
- **Hosted instances** - All instances hosted by this computer, if they are clustered, and their

active and passive nodes.



IDERA SQL Inventory Manager lets you discover and visualize your SQL Server environment. Learn more > >

IDERA Website	Products	Purchase	Support	Community	About Us	Resources	Legal

Manage instance applications

IDERA SQL Inventory Manager periodically takes a sampling of the applications connecting to each SQL Server instance. This sampling occurs approximately once every hour. The Applications list on the Instance Details view includes the name of the application along with the timestamp of the most recent sampling that included that application.

Click the gear icon next to the application name to select one of the following options:

- **Create Application Alias** - Change the default name of the application to an alias that displays in the Applications list.
- **Hide** - Allows you to prevent SQL Inventory Manager from displaying this application in the list. Click **Unhide** to display any hidden applications.

Manually adding an application

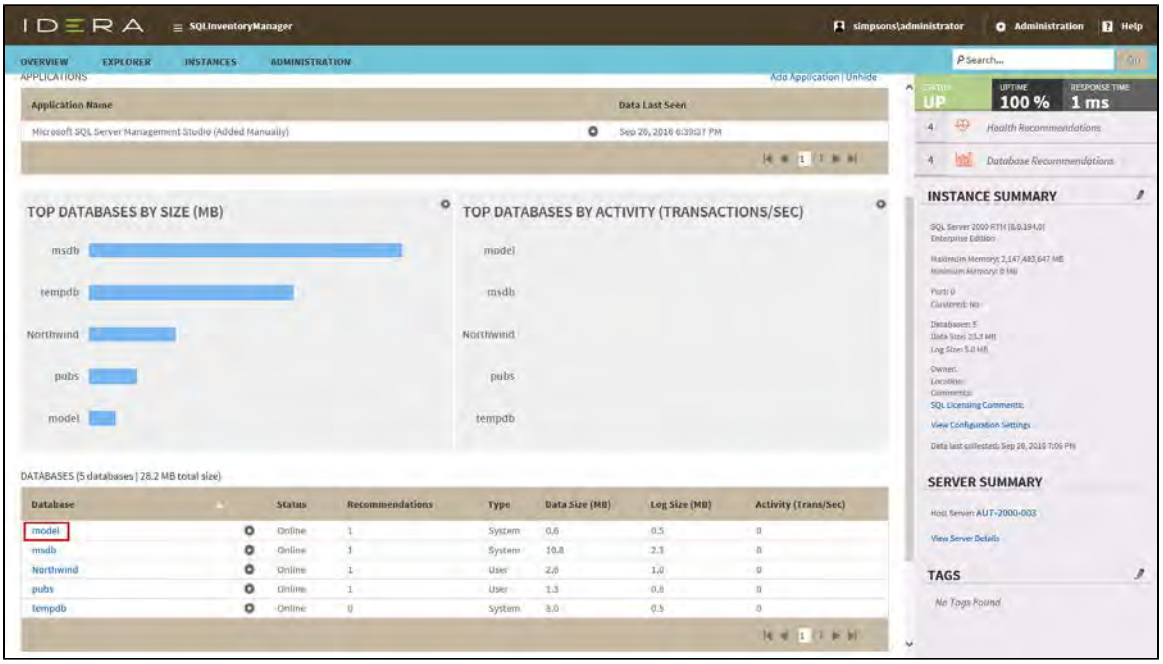
If you need to manually add an application, click **Add Application**, type the name of the application, and then click **OK**. SQL Inventory Manager displays this item in the Applications list and includes "Added Manually" next to the application name. If you attempt to add a name that matches the display name of actual application name that already exists in the database, SQL Inventory Manager displays a warning message and does not allow you to add that name.

IDERA SQL Inventory Manager lets you discover and visualize your SQL Server environment. Learn more > >

IDERA Website	Products	Purchase	Support	Community	About Us	Resources	Legal

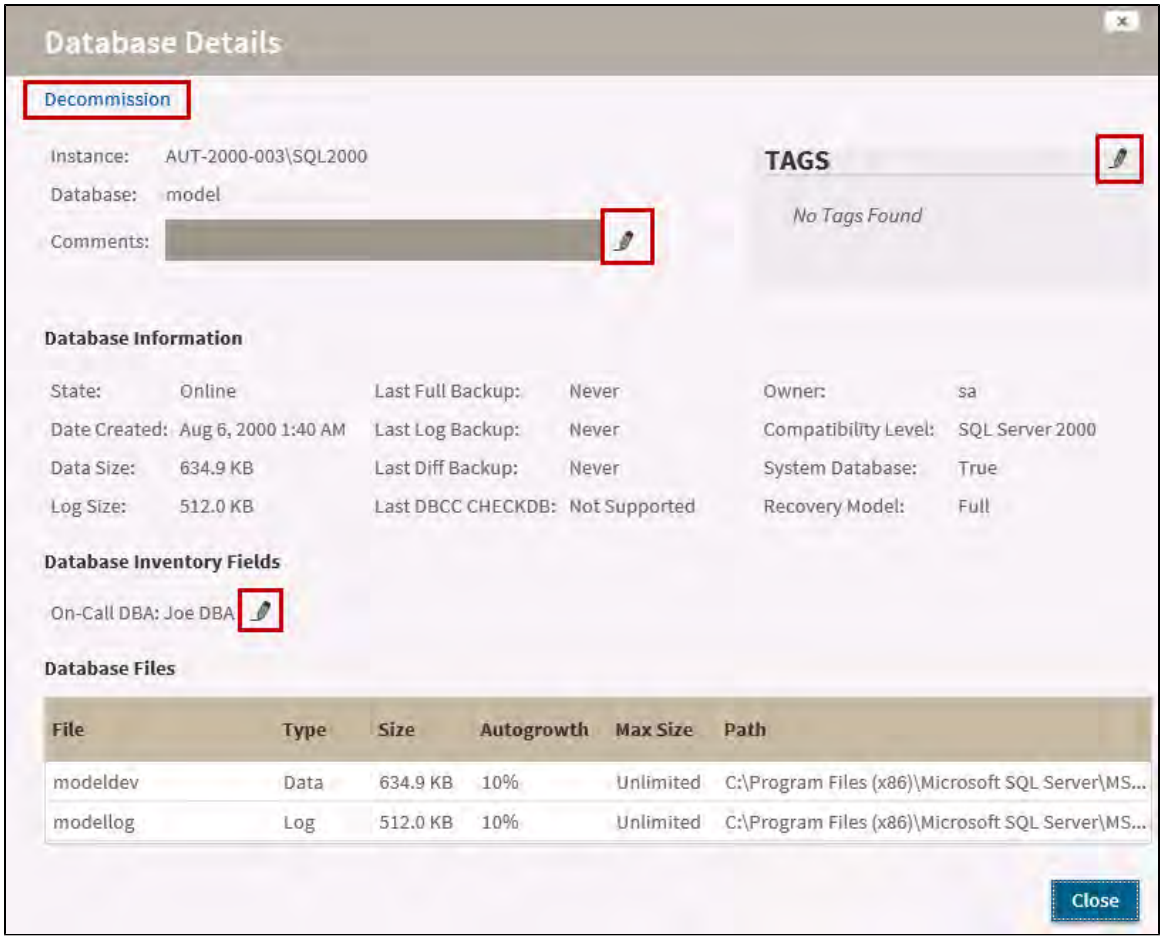
Viewing Database Details

IDERA SQL Inventory Manager lets you see the details of the databases of your monitored instances. In order to access this information, go to the respective Instance details view, then go to the bottom section of this view to the list of databases and click the name of the respective database.



The Database Details window includes the following information:

- **Database details**: Displays the instance and database name.
- **Comments**: You can use this field to enter comments that help you identify your database. Click the pencil icon to open the field for comments.
- **Decommission** : Allows you to decommission this database. Decommissioning stops all monitoring of the database and moves it to the Decommissioned Database list on the Instance Details view.
- **Recommission** : Allows you to recommission a decommissioned database. Decommissioning stops all monitoring of the database and moves it to the Decommissioned Database list on the Instance Details view.
- **Tags**: Allows you to view tags assigned to your database. Click the pencil icon to edit these tags or add new ones.
- **Database Information**: Displays the current database state, date the database was created, current size of the data contained within, current log size, timestamp of the most recent full backup, timestamp of the most recent log backup, timestamp of the most recent differential backup, timestamp of the most recent DBCC CHECKDB, database owner name, compatibility level, whether it is a system database, and the type of recovery model (Simple, Full, Bulk logged).
- **Database Inventory Fields**: Displays any available custom inventory fields and their values. Click the pencil icon to change this value.
- **Database Files**: Displays a list of all files in this database, their type, size, autogrowth settings, maximum size, and file paths.



IDERA SQL Inventory Manager lets you discover and visualize your SQL Server environment. Learn more > >

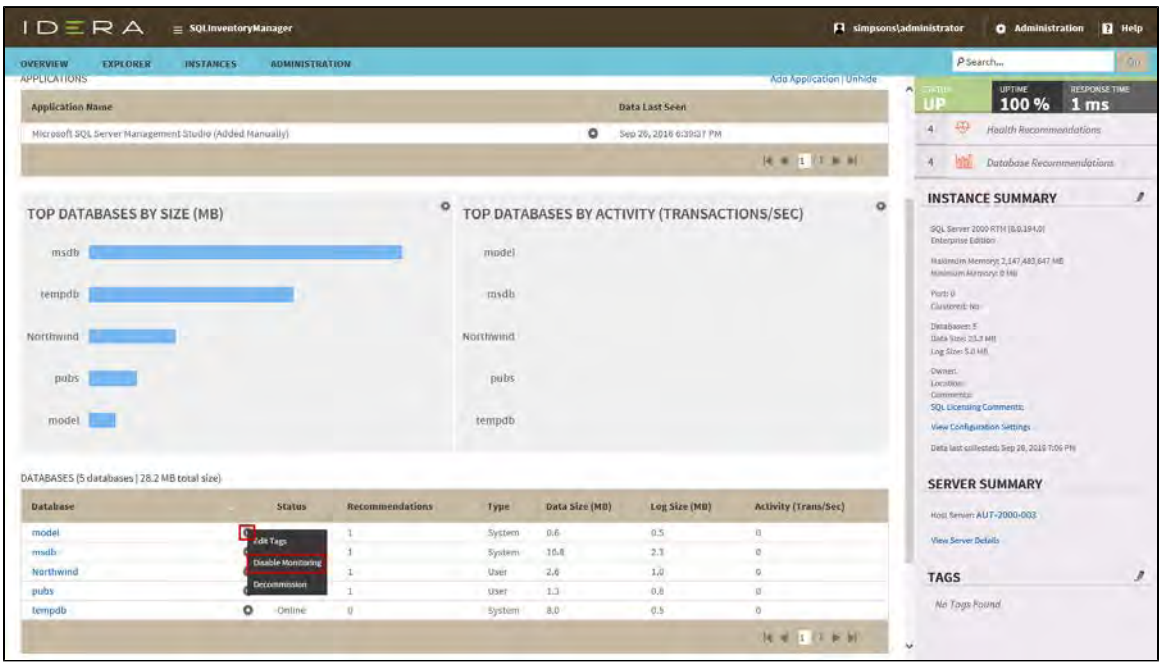
IDERA Website	Products	Purchase	Support	Community	About Us	Resources	Legal

Disable database monitoring

You can disable the monitoring of a database if you no longer want to collect information from this database or receive its health check recommendations.

To disable an instance database, go to the respective instance details view, click the gear icon next to the database you no longer want to monitor, and select **Disable Monitoring**.

To enable a database again, look for the same gear icon next to the disabled database, and choose **Enable Monitoring**.

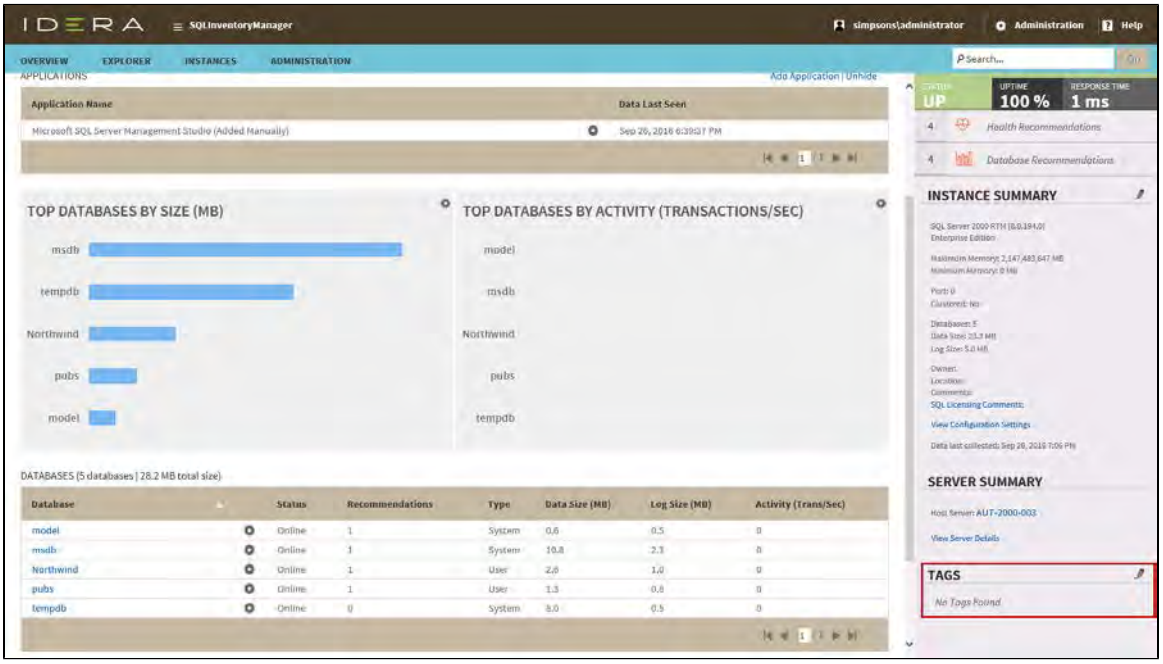


IDERA SQL Inventory Manager lets you discover and visualize your SQL Server environment. Learn more > >

IDERA Website	Products	Purchase	Support	Community	About Us	Resources	Legal

Managing tags for an instance

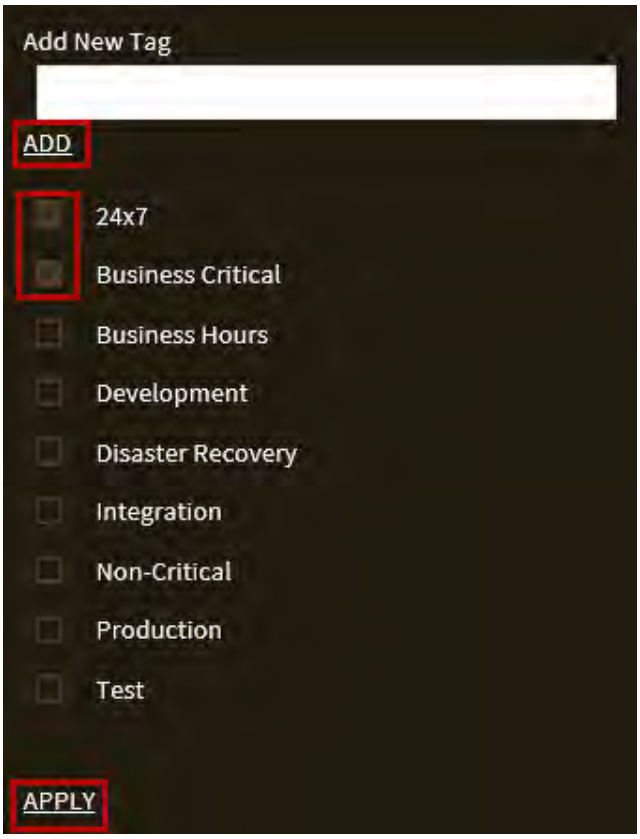
The Instance Details view allows you to manage tags for a specific instance. After accessing the Instance Details view for the instance you want to manage, click the pencil icon on the Tags section of the right sidebar.



SQL Inventory Manager opens a window for managing the instance tags. On this window you can:

- Type the name of a new tag, and then click **ADD**. SQL Inventory Manager adds the new tag to the list. You can add several tags at once by separating each name with a semicolon (;).
- Check or uncheck those tags you want to add or remove for this instance. Previously-added and newly-added tags are checked by default.

When you finish making your edits, click **APPLY**.



Tip

You can also remove tags by clicking the tag name on the sidebar without opening the Manage Tags window.

Warning

- The tag name must begin with an upper or lowercase alphanumeric character.
- Your tag name must have a maximum length of 20 characters.

IDERA SQL Inventory Manager lets you discover and visualize your SQL Server environment. Learn more > >

Managing instances

Once you register your instances, IDERA SQL Inventory Manager allows you to manage them according to your requirements. For example, you can disable instances for maintenance plans or remove them if you decide not to monitor them any more.

You can also edit instance properties like owner, location, tags, or change the credentials you use for collecting their information.

In this section, you can find detailed information on how to perform any of these actions and manage your instances according to your preferences.

- Disabling instances
- Enabling SQL Server instances
- Removing instances
- Change credentials
- How to edit instance properties
- How to edit MS SQL Server license information
- How to discover new instances
- How to add SQL Server instances for monitoring
- Reviewing SQL Server patches

IDERA SQL Inventory Manager lets you discover and visualize your SQL Server environment. Learn more > >

IDERA Website	Products	Purchase	Support	Community	About Us	Resources	Legal

Disabling instances

IDERA SQL Inventory Manager allows you to disable instances from monitoring. Disable an instance when you want to temporarily stop its monitoring. If you need to do maintenance or you need to disable an instance for a period of time, use this option to stop SQL Inventory Manager from collecting data, performing health checks, and sending notifications during this time.

You can access this option on the following views:

- **Overview** tab - The **Disable Monitoring** option is located on the gear icon next to the instance you want to disable.
- **Instance Details** view - The **Disable Monitoring** option is located on the action items bar.
- **Instances** tab > **Managed** view - The **Disable Monitoring** option is located on the gear icon next to the instance you want to disable, or under **More Actions** on the action items bar. Note that you must select at least one instance to have this option enabled.
- **Instances** tab > **SQL Licensing** view - The **Disable Monitoring** option is located on the gear icon next to the instance you want to disable, or under **More Actions** on the action items bar. Note that you must select at least one instance to have this option enabled.

Below you can see the tabs and sections where you can find **Disable Monitoring**. Click the image to view full size.

Although IDERA SQL Inventory Manager stops collecting information when you disable an instance, data remains in the database.

IDERA SQL Inventory Manager lets you discover and visualize your SQL Server environment. Learn more > >

IDERA Website	Products	Purchase	Support	Community	About Us	Resources	Legal

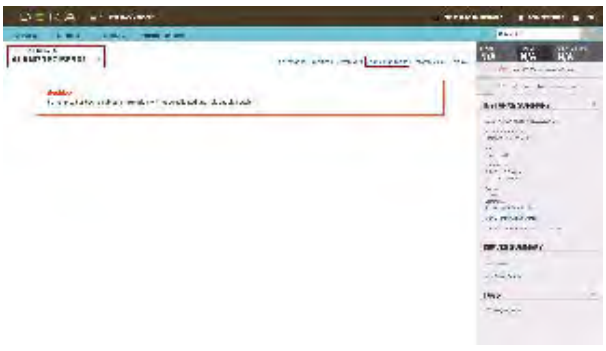
Enabling SQL Server instances

You may disable instances when you need to stop their monitoring for a period of time. For more information on how to disable, refer to Disabling instances.

To enable again the monitoring of these instances, go to any of the following views:

- **Overview** tab - The **Enable Monitoring** option is located on the gear icon next to the instance you want to enable.
- **Instance details** view - The **Enable Monitoring** option is located on the action items bar.
- **Instances** tab > **Managed Instances** view - The **Enable Monitoring** option is located on the gear icon next to the instance you want to enable, or under **More Actions** on the action items bar. Note that you must select at least one instance to have this option enabled.
- **Instances** tab > **SQL Licensing** view - The **Enable Monitoring** option is located on the gear icon next to the instance you want to enable, or under **More Actions** on the action items bar. Note that you must select at least one instance to have this option enabled.

The images below show you where you can find any of these options.



IDERA SQL Inventory Manager lets you discover and visualize your SQL Server environment. Learn more > >

IDERA Website	Products	Purchase	Support	Community	About Us	Resources	Legal

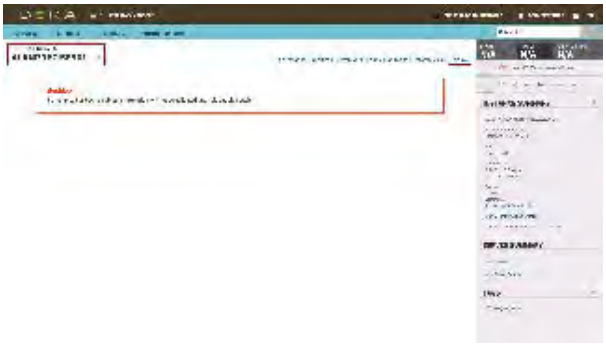
Removing instances

IDERA SQL Inventory Manager allows you to remove instances that you no longer wish to monitor.

You can access this option on the following views:

- **Overview** tab - The **Remove** option is located on the gear icon next to the instance you want to remove.
- **Instance details** view - The **Remove** option is located on the action items bar.
- **Instances** tab > **Managed** view - The **Remove** option is located on the gear icon next to the instance you want to remove, or under **More Actions** on the action items bar. Note that you must select at least one instance to have this option enabled.
- **Instances** tab > **SQL Licensing** view - The **Remove** option is located on the gear icon next to the instance you want to remove, or under **More Actions** on the action items bar. Note that you must select at least one instance to have this option enabled.

Below you can see the tabs and sections where you can find the **Remove** option. Click the image to view full size.



If you remove an instance, IDERA SQL Inventory Manager no longer monitors that instance, deletes all associated data from the database, and adds the instance to the list of ignored instances. For more information about ignored instances, go to Ignored instances.

⚠ Removed instances no longer count against your license count.

IDERA SQL Inventory Manager lets you discover and visualize your SQL Server environment. Learn more > >

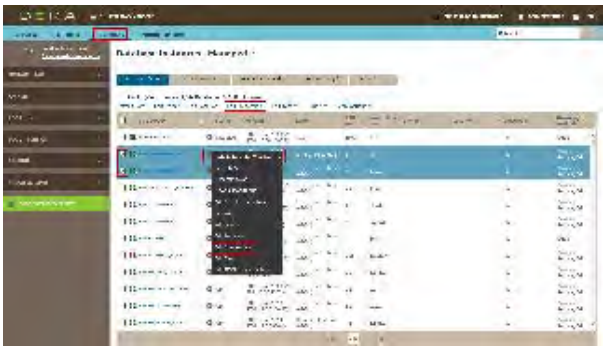
IDERA Website	Products	Purchase	Support	Community	About Us	Resources	Legal

Change credentials

When you register an instance, you define certain credentials, or if you have the auto-registration option enabled, IDERA SQL Inventory Manager registers your instances using the **SQL Inventory Manager service account** as the default connection credentials.

If you need to change these credentials for several instances, you can change them directly by clicking **Edit Credentials** on the **Managed Instances** section or **SQL Licensing** section of the **I nstances** view. Note that to have this option enabled, you must select those instances whose credentials you want to change.

Below you can see the tabs and sections where you can find **Edit Credentials**. Click the images to view full size.



IDERA SQL Inventory Manager opens the **Edit Credentials** window where you can change your:

- SQL Connection Credentials
- WMI Connection Credentials

SQL Connection Credentials

These credentials allow you to connect to SQL Server instances to collect availability, capacity, and configuration data. To change these credentials, follow these steps:

- Go to the **SQL Connection Credentials** section.
- Choose between the IDERA SQL Inventory Manager service account, Windows user account, or SQL Server login account. The last two options require that you provide the respective login and password.
- After you define your **SQL Connection Credentials**, you can click **TEST CREDENTIALS** t o make sure IDERA SQL Inventory Manager can use these credentials to gather data.

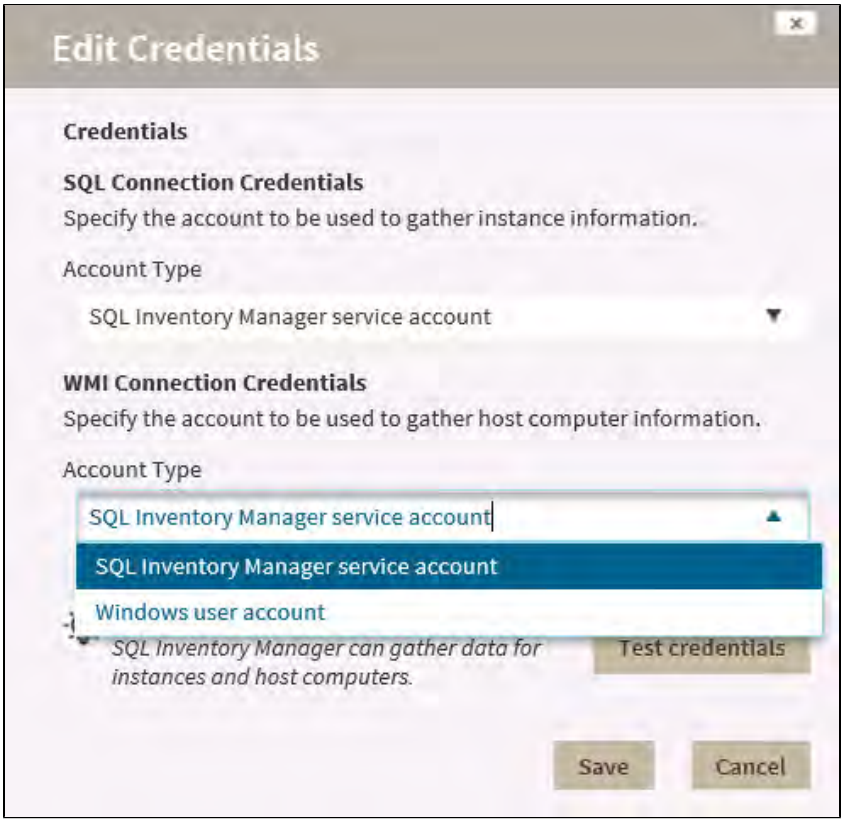
Note

When you have the auto-registration option enabled, IDERA SQL Inventory Manager uses the **SQL Inventory Manager service account** as the default SQL connection credentials.

WMI Connection Credentials

These credentials allow you to connect to the computer that hosts the SQL Server instance in order to collect its performance and computer details. To change these credentials, follow these steps:

- Go to the **WMI Connection Credentials** section.
- You can choose between the IDERA SQL Inventory Manager service account or Windows user account. If you choose the latter, you need to provide a login and password.
- After you define your **WMI Connection Credentials**, you can click **TEST CREDENTIALS** t o make sure IDERA SQL Inventory Manager can use these credentials to gather data from host computers.



Note

When you have the auto-registration option enabled, IDERA SQL Inventory Manager uses the **SQL Inventory Manager service account** as the default WMI connection credentials.

You can also change credentials by accessing the **Edit Instance Properties** window. Keep in mind that the **Edit Instance Properties** window allows you to change credentials only for a specific instance. If you want to change connection credentials for several instances at once, use the **Edit credentials** option explained in this section. For more information about editing instance properties, see How to edit instance properties.

IDERA SQL Inventory Manager lets you discover and visualize your SQL Server environment. Learn more > >

IDERA Website	Products	Purchase	Support	Community	About Us	Resources	Legal

How to edit instance properties

When you register an instance, you define certain properties such as credentials, owner, location, and comments. You can change this information from the **Edit Instance Properties** win dow. To access this window, go to any of the following views:

- **Overview** tab - The **Edit Instance Properties** option is located on the gear icon next to the instance you want to edit.
- **Instance details** view - The **Edit Instance Properties** option is located on the action items bar.
- **Instances** tab > **Managed** view - The **Edit Instance Properties** option is located on the gear icon menu next to the selected instance or on the action items bar.
- **Instances** tab > **SQL Licensing** view - The **Edit Instance Properties** option is located on the gear icon menu next to the selected instance or on the action items bar.

Below you can see the tabs and sections where you can find **Edit Instance Properties**. Click the image to view full size.

Tip

On the **Instances** view, on the **Managed** instances section, you can also select several instances at once and click **Edit Owner**, **Edit Location**, or **Edit Credentials** for faster editing of these fields. For more information about what you can do on the **Managed** Insta nces view, refer to Managed instances.

Editing Owner, Location and Comments

You can define owner, location, and comments when you register an instance; however, if you did not or you want to change any of these fields, go to the respective sections on the **Edit Instance Properties** window, make the necessary changes, and then click **SAVE**.

SQL Server connection credentials

These credentials allow you to connect to SQL Server instances to collect availability, capacity, and configuration data. When you register an instance, you define these credentials; however, you can change them later on the **Edit Instance Properties** window.

You can choose between the IDERA SQL Inventory Manager service account, a Windows user account, or a SQL Server login account. The last two options require that you provide the respective login and password.

> ⚠
>
> **Note**
>
> When IDERA SQL Inventory Manager has the auto-registration option enabled, it uses the IDERA SQL Inventory Manager service account as the default SQL Server connection credentials.

WMI connection credentials

These credentials allow you to connect to the computer that hosts the SQL Server instance, and collect its performance and computer details. When you register an instance, you define these

credentials; however, you can change them later on the **Edit Instance Properties** window.

You can choose between the IDERA SQL Inventory Manager service account or a Windows user account. You need to provide a login and password for the Windows user account.

Note

When IDERA SQL Inventory Manager has the auto-registration option enabled, it uses the IDERA SQL Inventory Manager service account as the default WMI connection credentials.

Minimum requirements

For more information on what permissions you need for any of these accounts, see Required accounts and permissions.

IDERA SQL Inventory Manager lets you discover and visualize your SQL Server environment. Learn more > >

IDERA Website	Products	Purchase	Support	Community	About Us	Resources	Legal

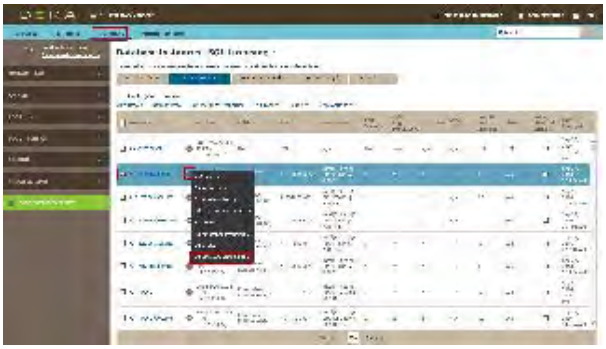
How to edit MS SQL Server license information

Microsoft SQL Server licensing information provided within IDERA SQL Inventory Manager is based on your system information and is only for guidance.

Microsoft began offering a core licensing model in SQL Server 2012. IDERA SQL Inventory Manager supports this type of licensing by including a number of core licensing-specific features and fields. You can change core licensing information in the **Edit MS SQL Server License Information** window. To access this window, go to any of the following views:

- **Instances** tab > **Managed** view - The **Edit MS SQL License Info** option on the gear icon menu next to the selected instance.
- **Instances** tab > **SQL Licensing** view - The **Edit MS SQL License Info** option on the gear icon menu next to the selected instance.

Below you can see the tabs and sections where you can find **Edit MS SQL License Info**. Click the image to view full size.



Tip

On the **Managed** and **SQL Licensing** views, you can also select several instances at once before selecting the gear icon for faster editing of some fields. For more information about other tasks you can do on the **Managed** or **SQL Licensing** views, see Managed instances and SQL Server Licensing view, respectively.

Editing SQL Server license information

IDERA SQL Inventory Manager pulls the following license information from the associated SQL Server:

- **SQL Server**. Displays the name of the SQL Server instance.
- **Virtual**. Displays "**Yes**" if the instance resides on a virtual machine or "**No**" if the machine is physical.
- **MS SQL Server Version**. Displays the version number for the installed SQL Server.
- **Fully Licensed with SA**. Check this box to remove the license count for the instance. You can also manage this setting in the **Instances** > **SQL Licensing** view.
- **CPU**. Displays information about the CPU in use.
- **# of Sockets**. Displays the number of cores per processor, whether physical or virtual.
- **# of Logical Processors**. Displays the total number of processors.
- **Total # of Cores**. Displays the sum of all the cores on a system. For example, if a system includes six cores per processor and contains two processors, then the total # of cores is 12. note that the sum does not mix physical and virtual cores but displays each type as a

separate line. Check the **Virtual** column for each row to determine if the core is virtual (displays "**Yes**") or physical (displays "**No**").

- **Core Factor**. Displays a numerical value that determines the number of core licenses necessary. While an administrator can change this value in this field or in the Core Factor Table, this number is provided by Microsoft based on the CPU in use.
- **Total Possible Core Licenses**. Displays the product of the total number of cores on a system multiplied by the **Core Factor**.
- **Comments**. Allows you to enter notes about this license.

Make any changes you want to the provided fields, and then click **SAVE**.

IDERA SQL Inventory Manager lets you discover and visualize your SQL Server environment. Learn more > >

IDERA Website	Products	Purchase	Support	Community	About Us	Resources	Legal

How to discover new instances

IDERA SQL Inventory Manager continuously searches your network to find new SQL Server instances. To see newly discovered instances, go to the **Discovered** view on the **Instances** tab. IDERA SQL Inventory Manager shows you a list of those instances not yet monitored in your environment. From this view you can add or ignore instances.

Note

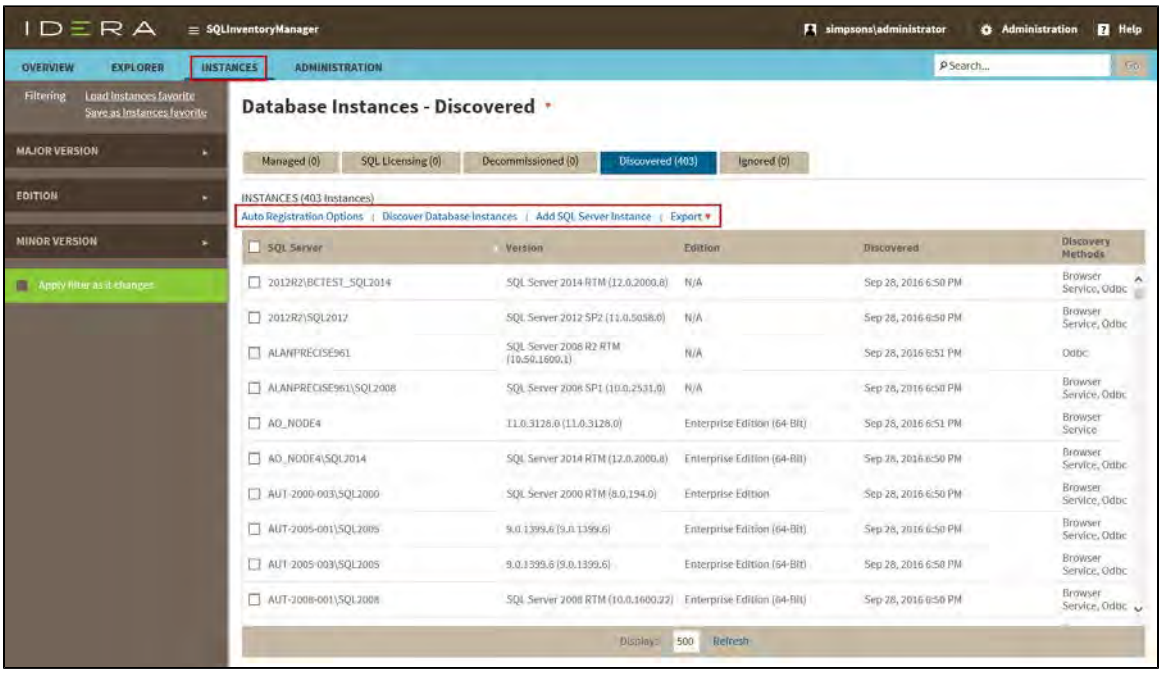
If you have the auto-registration option enabled, newly discovered instances will be automatically registered according to your settings. Go to Auto registration Options for more information about these settings. Instances that were discovered before this option was enabled will remain on the Discovered view.

Use the Discovered instances view

On the **Discovered instances** view, IDERA SQL Inventory Manager displays a list of all discovered instances that are not registered yet in your environment. On this view you can choose to **Ignore** instances, set the **Auto registration options**, start the **Discover instances** jo b, and open the **Add SQL Server Instance** wizard.

If you want to export the information displayed on the Discovered Instances view, go to the **Expo rt** option, located on the action items bar, and select your preferred format (**PDF**, **XLS**, or **XML**) for exporting.

For more information about the available actions on this view, go to Discovered instances.



Access from the Overview

> To access the **Discovered** instances view, you can also do it by clicking **New Instances** o n the right sidebar of the overview. For more information, go to Viewing information on the SQL Inventory Manager Overview.

Manage your Discovery Options

If you want to configure the discovery job, go to the Administration tab and click **Manage Discovery Options** on the Discovery section. On this dialog window you can specify not only those computers where you want IDERA SQL Inventory Manager to perform the discovery job, but also you can choose which methods you want to use to search in each computer. You can schedule your discovery jobs, add IP address ranges and those domains that IDERA SQL Inventory Manager will use for discovery.

For more information on how to configure your manage discovery options, see How to manage Discovery Center options

IDERA SQL Inventory Manager lets you discover and visualize your SQL Server environment. Learn more > >

IDERA Website	Products	Purchase	Support	Community	About Us	Resources	Legal

How to add SQL Server instances for monitoring

In order to manage an instance, access its details, and add it to your monitored environment, you need to register it with IDERA SQL Inventory Manager. This section helps you register one or more instances with IDERA SQL Inventory Manager.

You can find the **Add SQL Server Instance** option on the following views:

- **Overview** tab - The **Add SQL Server Instance** option is located on the top right section of the instances table.
- **Instances** tab - The **Add SQL Server Instance** option is located on the action items bar of the Managed, SQL Licensing, Decommissioned, Discovered, and Ignored sections respectively.
- **Administration** tab - The **Add SQL Server Instance** option is located in the instances section.

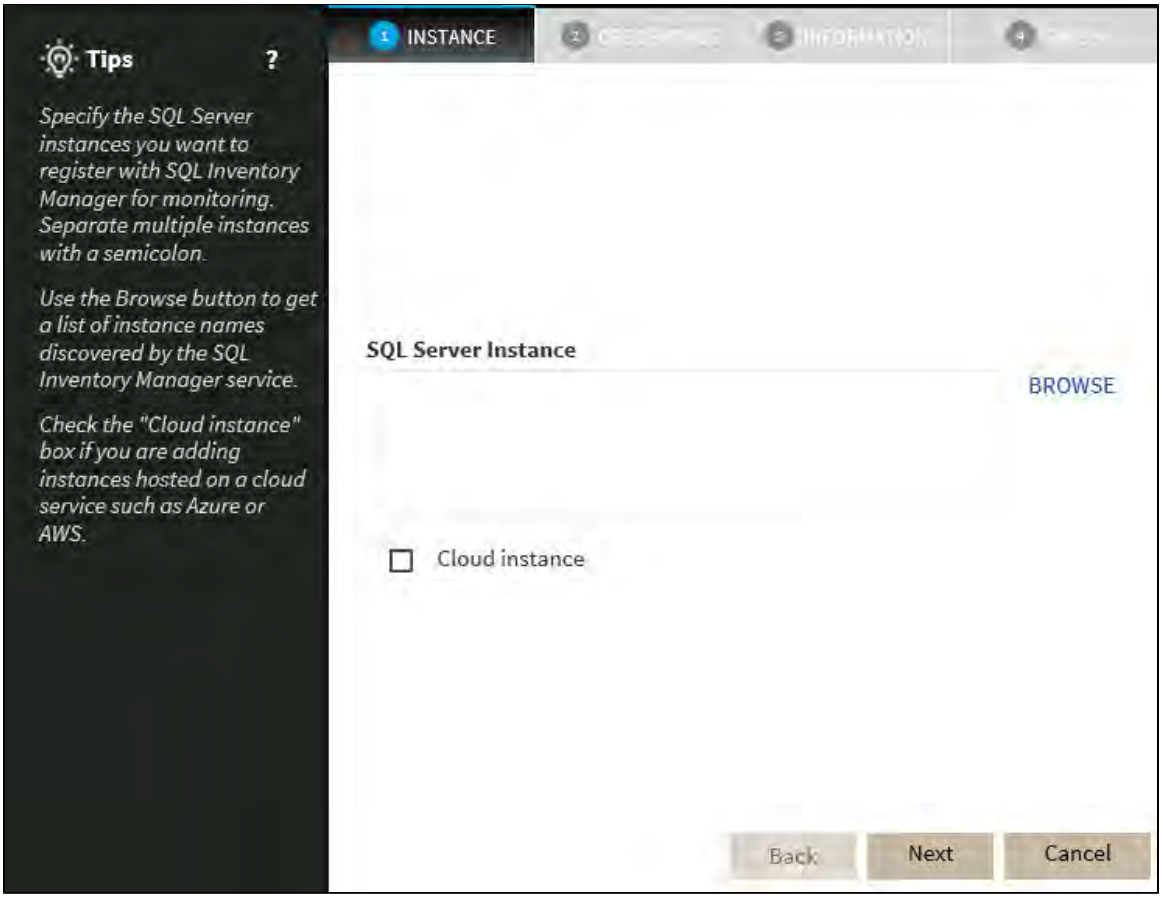
Below you can see the tabs and sections where you can find **Add SQL Server instances**. Click the image to view full size.

The Add Instance Wizard contains the following four sections:

1. Instance

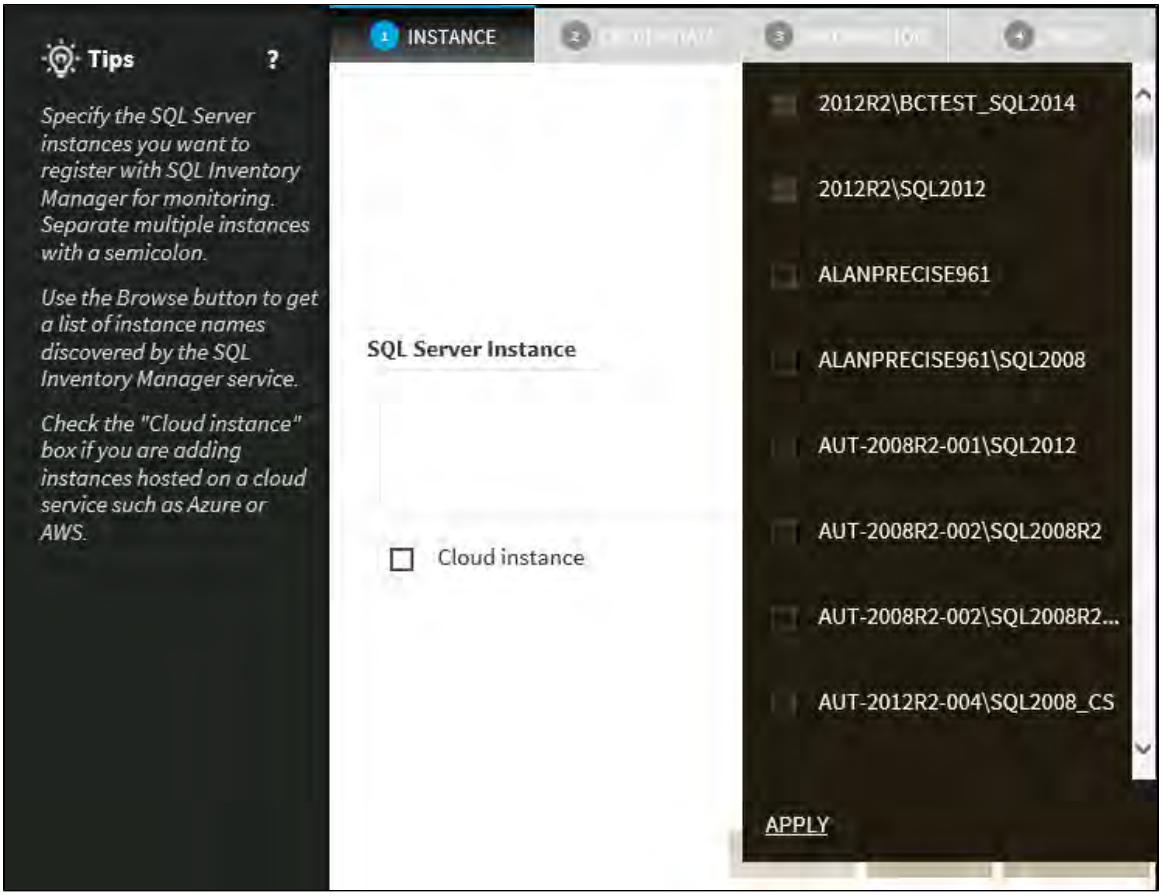
1. Type the name of instance or instances you want to register in the **SQL Server Instance** box. Use a semicolon to separate instances.

> When you select instances on the **Instances** view (Managed, Discovered, Ignored), the wizard already adds them to this box.

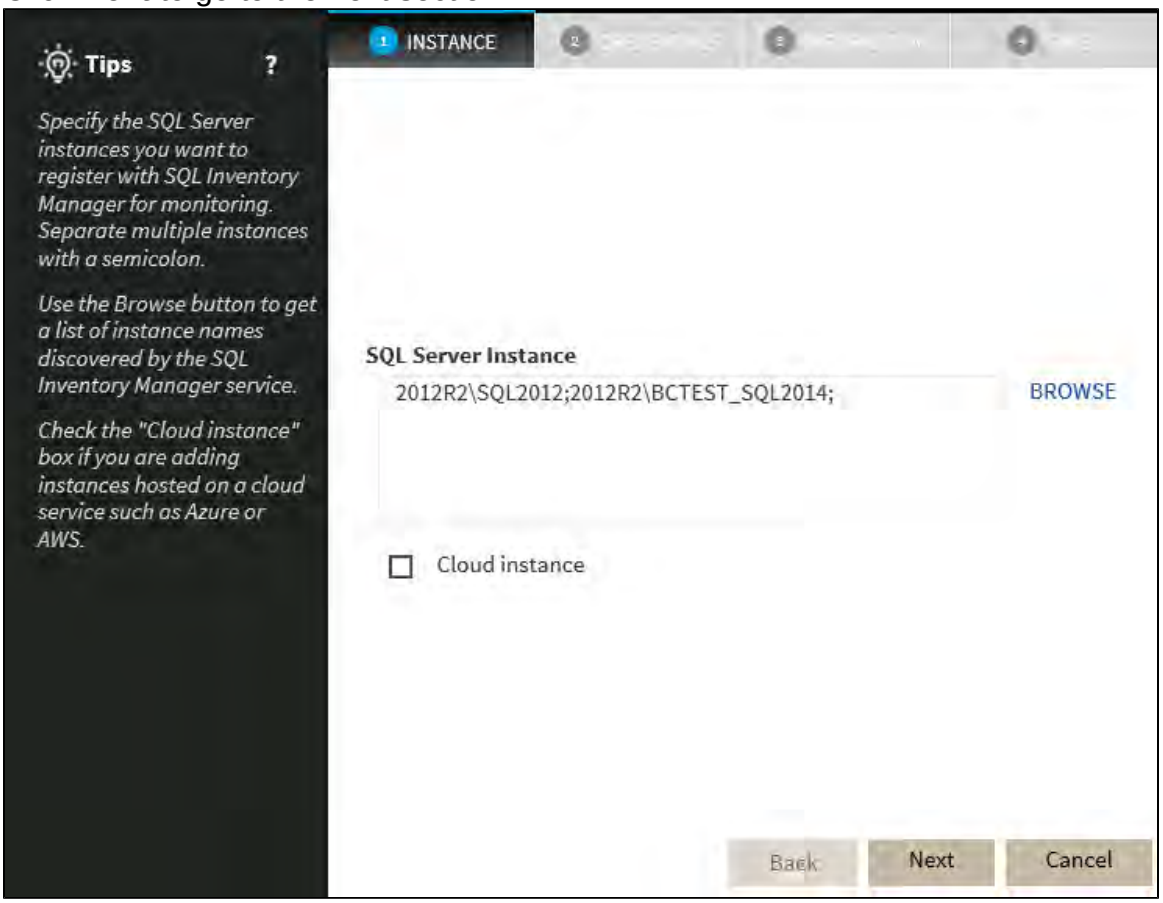


You can use the **Browse** button to access a list of discovered instances that have not been registered yet with IDERA SQL Inventory Manager.

2. Check the box next to the instances you want to add, and then click **Apply**.



3. Click **Next** to go to the next section.



2. Credentials

IDERA SQL Inventory Manager connects to registered SQL Server instances and their host computers to collect information. The collection service requires permissions to connect and gather information using the following types of connections:

- SQL connection credentials to perform queries against registered instances
- WMI connection credentials to gather data from the host computers

Tip

For more information on what are the minimum required permissions for these accounts, click Required accounts and permissions.

Authorize WMI users and set permissions

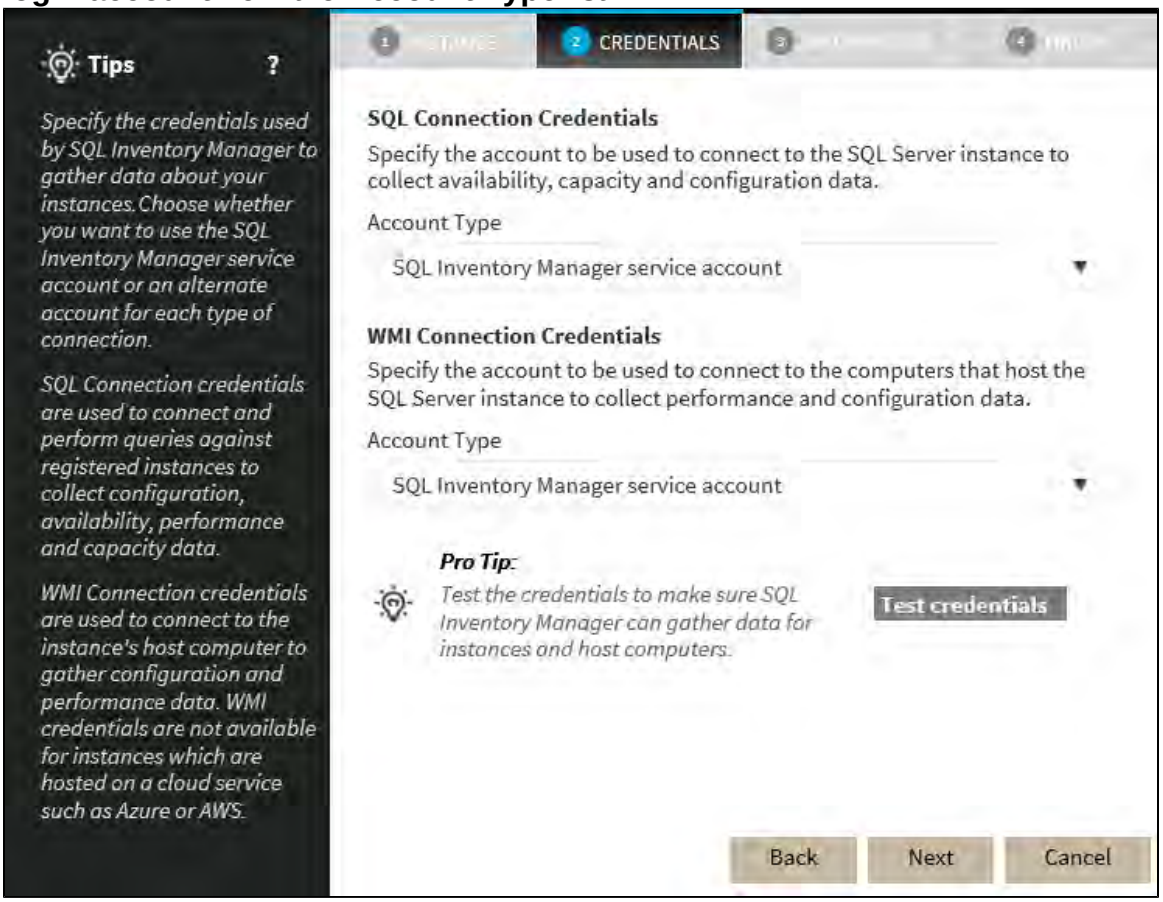
If you want to know how to authorize WMI users and set permissions, click here.

By default, IDERA SQL Inventory Manager connects using the IDERA SQL Inventory Manager Service Account. However, if you need to provide alternative credentials for any of these two connections, you can choose from the respective options on each section.

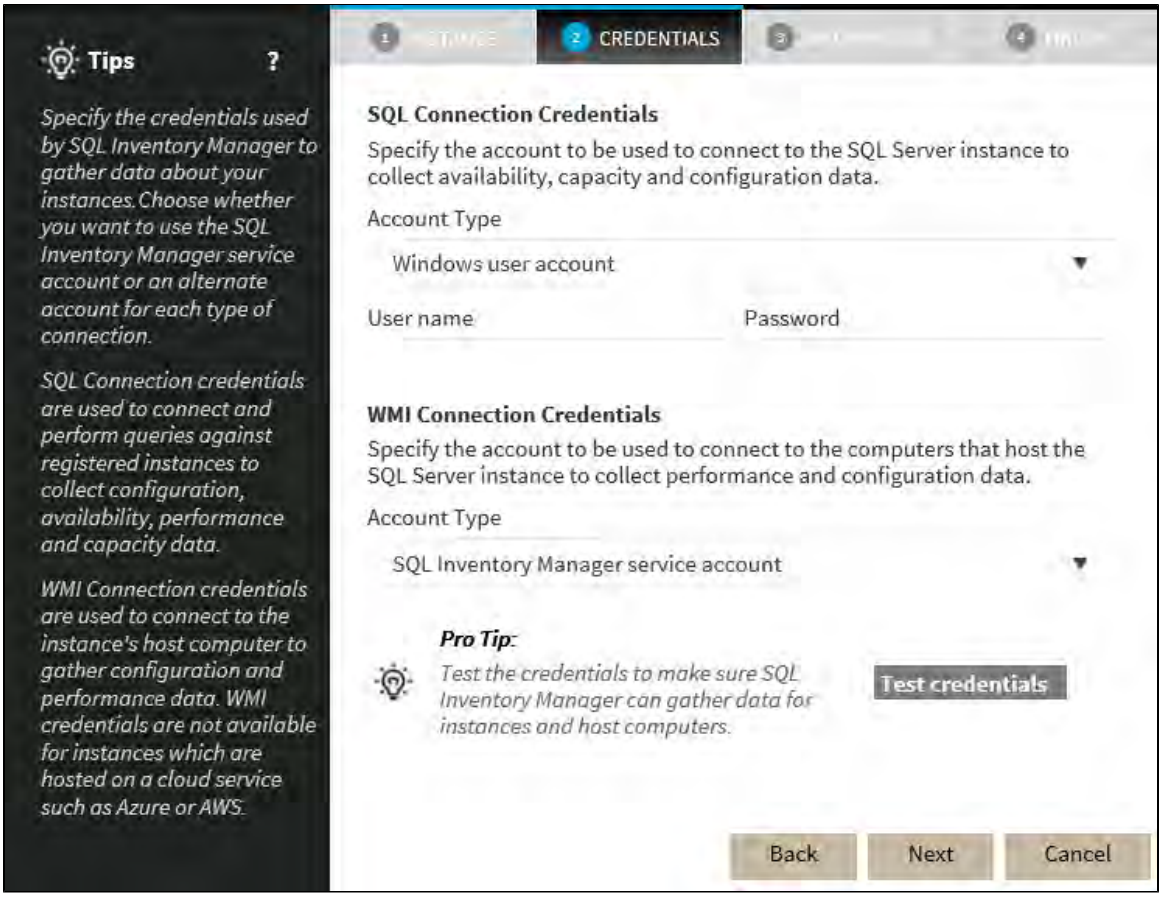
SQL Connection Credentials

- Specify the type of account that you want to use to access your SQL Server instance and collect its information. ***If you do not want to use the IDERA SQL Inventory Manager***

service account, you can choose to use a **Windows user account** or a **SQL Server login account** from the **Account Type** list.



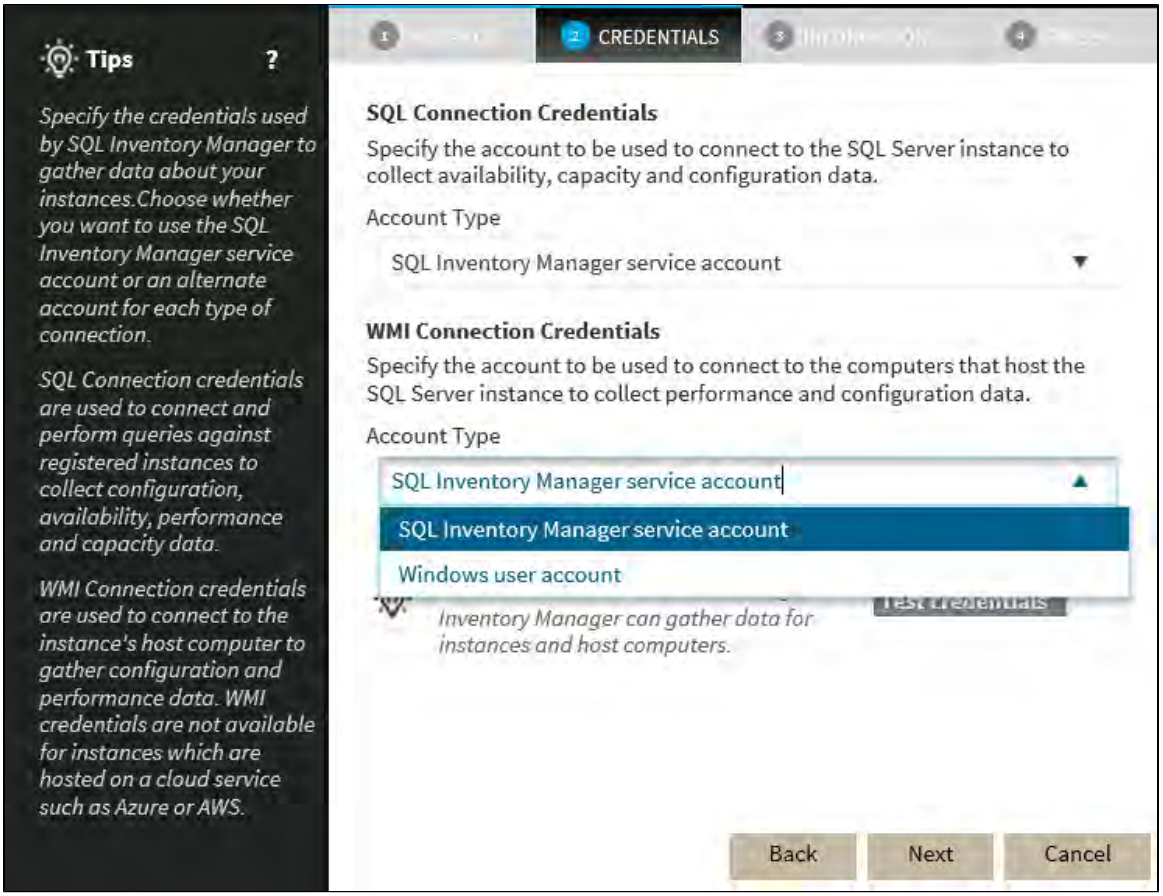
- ***If you select a Windows user account or SQL Server login account*** , type the respective user name and password. IDERA SQL Inventory Manager uses this account for SQL queries to gather availability and configuration data.



- You can test the correctness of your credentials by clicking **Test Credentials**.

WMI Connection Credentials

- On this section, you can choose to use the **SQL Inventory Manager service account** or a **Windows user account** by selecting either of them from the **Account Type** list.



- ***If you choose to use a Windows user account*** , type the respective user name and password. This account allows you to access Windows configuration data of the computer that hosts the registered instance.

Tip

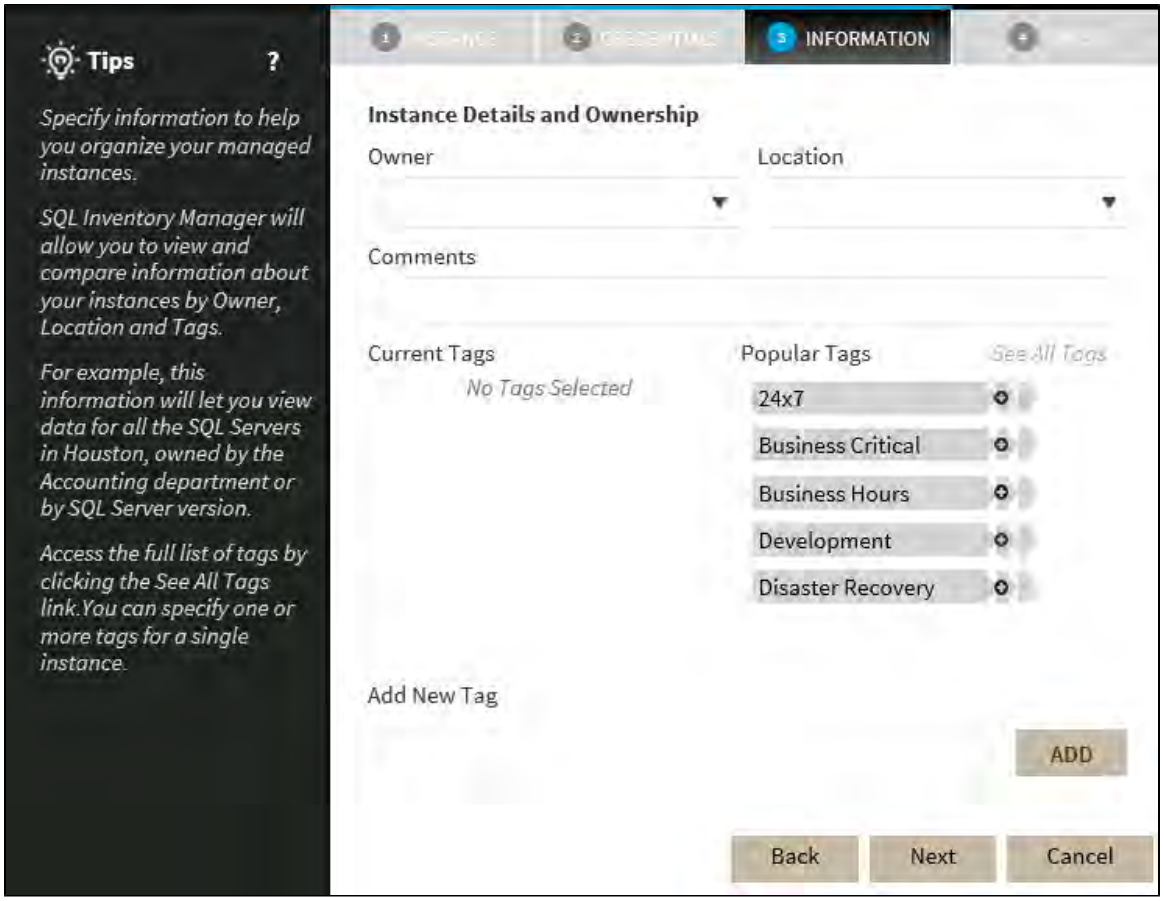
IDERA recommends that you use the **Test Credentials** option to verify that IDERA SQL Inventory Manager can successfully monitor the newly-registered instances.

3. Information

On this section you can specify additional information for your instances like **Owner**, **Location**, **Comments**, and **Tags**.

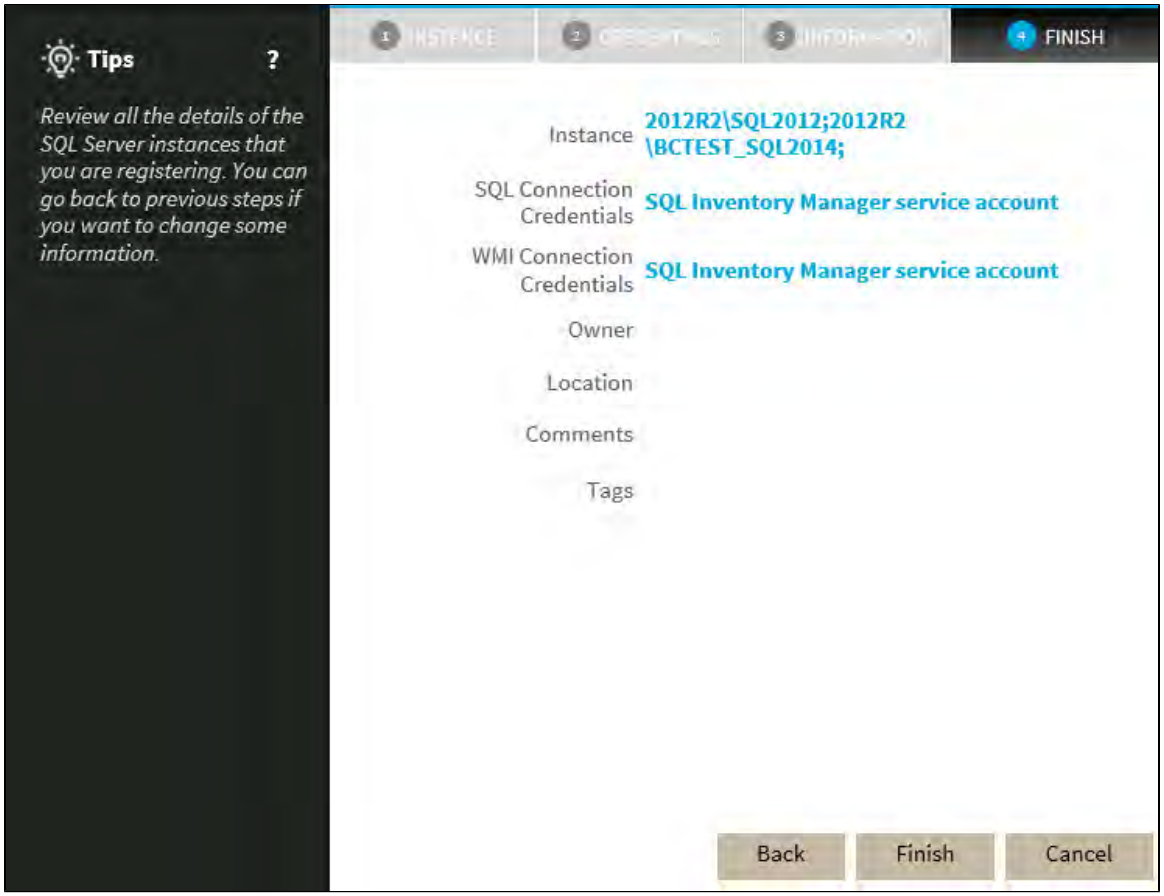
Although none of these fields is required, Owner, Location, Comments, and Tags provide a powerful method for grouping instances and help you organize your managed instances. You can use these options to view information such as database counts, size, or activity, grouped by these fields.

Use the **Owner** and **Location** drop down lists to access all available options.



To add tags, you can do one of the following:

- Click any of the suggested **Popular Tags** on the right side of the window. The tag appears now on **Current Tags** on the left.
- You can click **See All Tags** on the top right section to display all available tags.
- If you want to **Add a New Tag**, type the name in the bottom box, and then click **ADD**. Your new tag will be added to the **Current Tags** list.



Warning

- The tag name must begin with an upper or lowercase alphanumerical character.
- Your tag name must have a maximum length of 20 characters.
- Only the following special characters are valid for tags: ! # @ ( ) ' . : - _ and embedded spaces.

Tip

Refer to the Managing tags section for more guidance on how to add, view, edit, or delete tags.

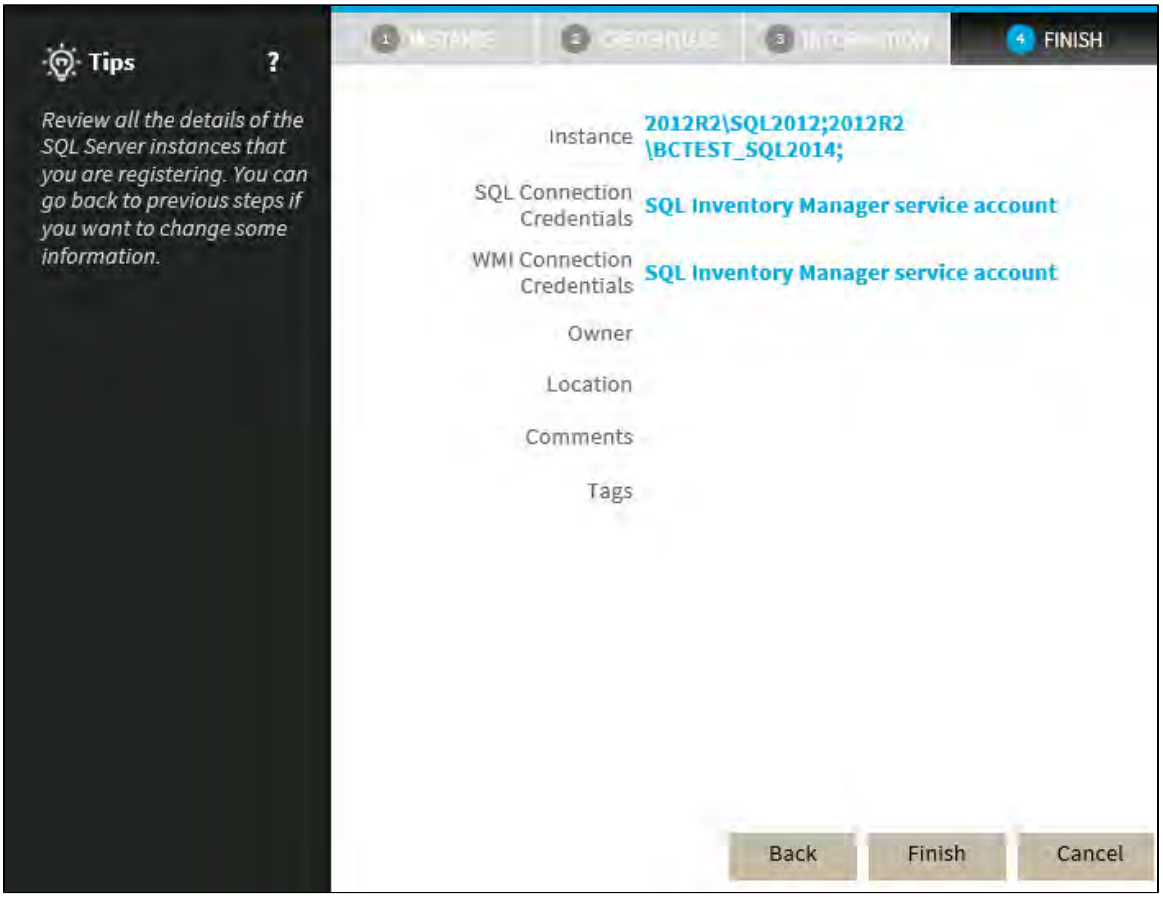
4. Finish

On this section, you can review your Instance Registration Details such as: instance name, SQL Connection Credentials, WMI Connection Credentials, Owner, Location, Comments, and Tags.

To change any of these registration details you can do one of the following:

- You can click any of the title sections (INSTANCE, CREDENTIALS, or INFORMATION) and go directly to the place where you need to make the changes.

- You can click **Back** to go back to the previous sections until you find the place where you need to make changes.



After you review your registration details click **Finish**. IDERA SQL Inventory Manager begins to collect instances information after a few minutes of their registration and will continuously collect availability, performance, and configuration information from them and their host computers.

Tip

After registration, you can still change credentials, tags, and information settings on the **Edit Properties** option. Refer to Editing instance properties for more information.

About collection intervals

Collection intervals are predefined. You can see more information about collection frequency in What Health Checks are available in SQL Inventory Manager?

You can also force data collection for an instance by selecting **Refresh Data** on the **Instance details** view. For more information, refer to Viewing instance details.

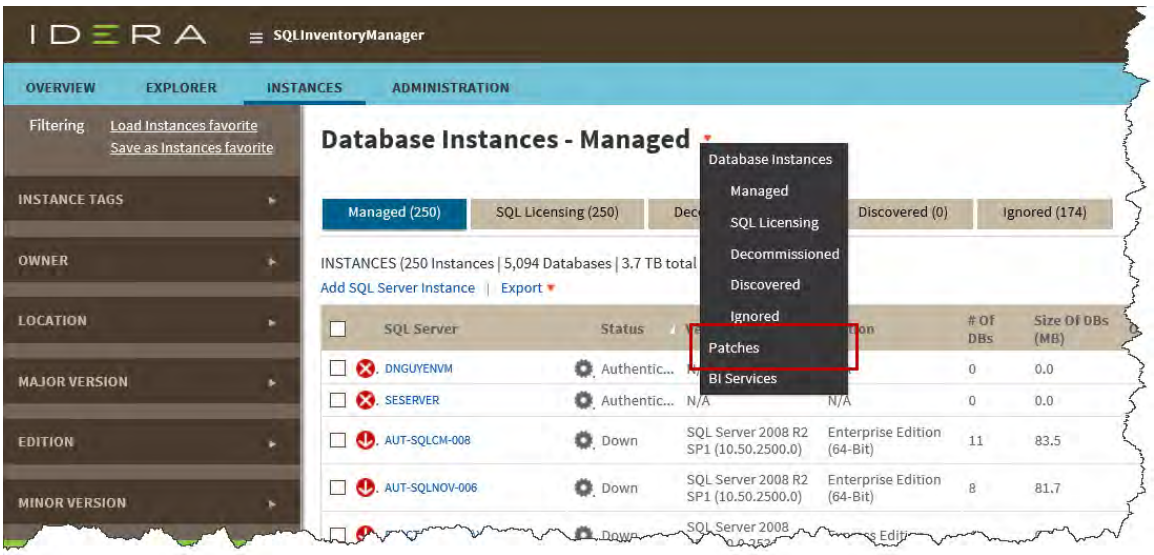
IDERA SQL Inventory Manager lets you discover and visualize your SQL Server environment. Learn more > >

IDERA Website	Products	Purchase	Support	Community	About Us	Resources	Legal

Reviewing SQL Server patches

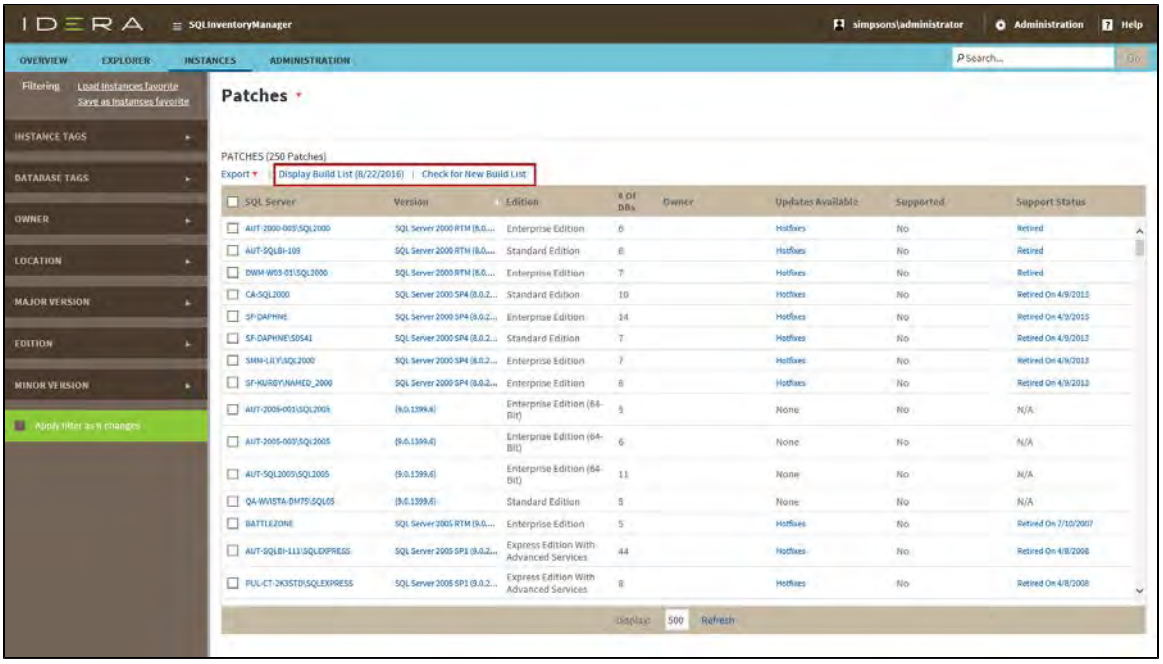
The IDERA SQL Inventory Manager Patches view helps you manage SQL Server patches and keep your environment properly patched. The Patches view displays a list of your managed SQL Server instances including whether they are running a supported version of SQL Server. In addition, you can get information about the patches running on your SQL Server and whether additional hotfixes are available for your SQL Server level.

Access the Patches view by going to the Instances view, and then clicking the arrow icon to the right of the current view title, such as Database Instances.



The Patches view allows you to:

- Verify that your SQL Servers instances are patched to the same level and/or the appropriate level.
- Identify whether any SQL Server instances are running unsupported versions of SQL Server (or versions whose support is about to expire).
- Use quick links to Microsoft Knowledge Base articles to get more information about applied hotfixes and new hotfixes.
- Keep up with the latest patches by downloading the most recent list compiled by IDERA.

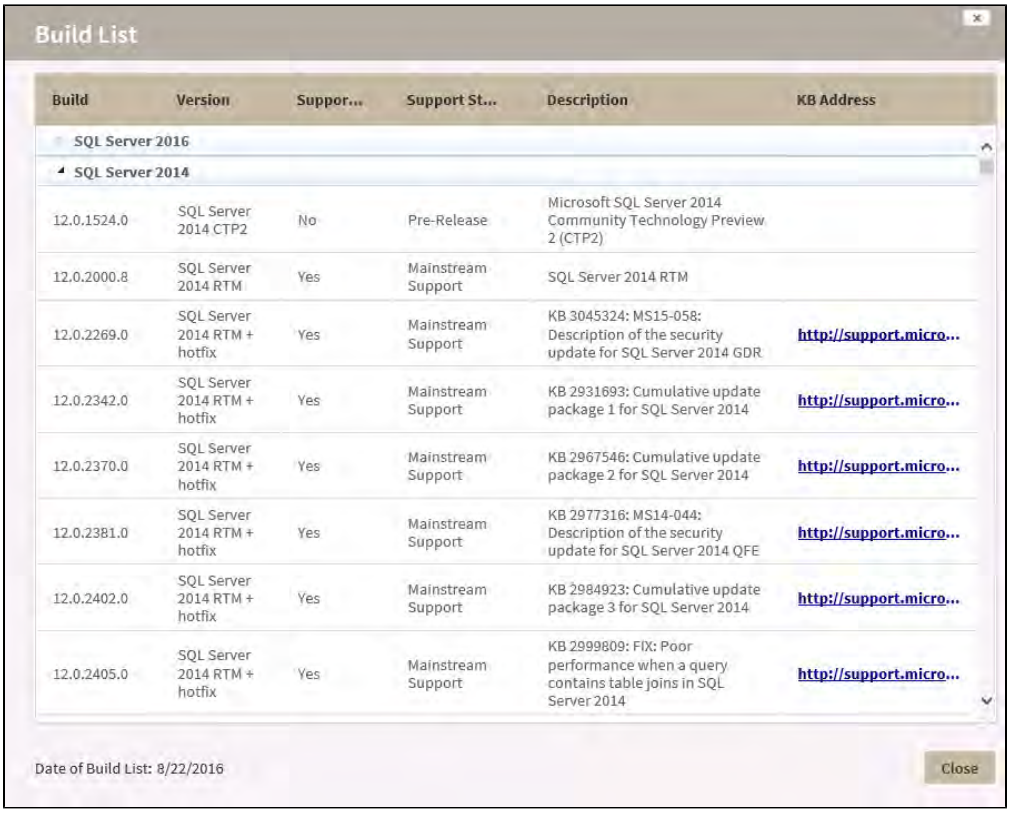


Available actions

Display Build List (mm/dd/yyyy)

Displays the SQL Server build list associated with the date in parentheses. You can expand/contract the content for each SQL Server version by clicking the small arrow icon next to the version name.

You can get additional information about the build by clicking the link for the associated Microsoft Knowledge Base article, if available.



Check for New Build List

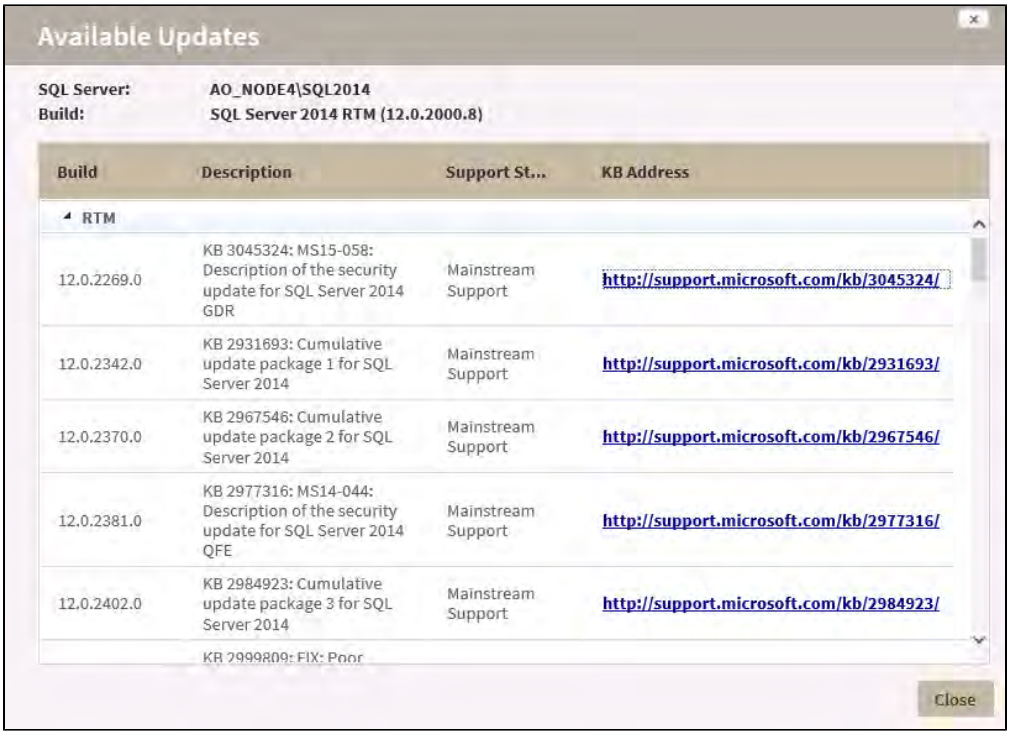
Verifies that the build file located on your IDERA SQL Inventory Manager server matches the latest build file located on the IDERA server. If the current build list on your machine is older, your list is updated and the changes are applied to the Patches view for the managed instances. IDERA SQL Inventory Manager displays a message if your list matches the latest list on the IDERA server.

Export

On the action items bar of the Patches view, you can find the **Export** option which allows you to choose your preferred format for exporting the information available on this view. You can export as a **PDF**, **XLS**, or **XML** file. The filters you choose on this view will be taken into account for your exported reports.

View available updates

If a hotfix is available, click the link to view a list of available updates for this SQL Server instance. You can get additional information about the build by clicking the link for the associated Microsoft Knowledge Base article, if available.



View support status

The **Supported** column displays **Yes** or **No** indicating whether the SQL Server version with the specific build is supported by Microsoft.

Support Status

The Supported Status column provides the current status and a link to the Microsoft page for extended support and lifecycle. Options include:

- Mainstream Support
- Retired

- Extended Support Only as of [date]

IDERA SQL Inventory Manager lets you discover and visualize your SQL Server environment. Learn more > >

IDERA Website	Products	Purchase	Support	Community	About Us	Resources	Legal

Health Recommendations and Alerts

IDERA SQL Inventory Manager performs health checks on your environment. From these health checks, IDERA SQL Inventory Manager provides you with health recommendations to give you a broad visibility of the status of your registered instances; for example, health recommendations let you know if you have databases with no backups, if your drives are at risk of being full soon, or if your instances are running too slow.

Additionally, you can enable/disable those health check recommendations that you wish or not to receive notifications from.

IDERA SQL Inventory Manager lets you discover and visualize your SQL Server environment. ***Learn more > >***

IDERA Website	Products	Purchase	Support	Community	About Us	Resources	Legal

How to view Health Recommendations

IDERA SQL Inventory Manager allows you to see health check recommendations from the following views:

- **Overview**. Health check recommendations for all your environment.
- **Instance details**. Health check recommendations for a specific instance.

View Health Check Recommendations from all your monitored environments

On the first top section of the **Overview**, IDERA SQL Inventory Manager gives you a summary of the health check recommendations for all your environment. These health recommendations are grouped by health check category and ordered by criticality; where Level 3 is critical, Level 2 is warning, and Level 1 is informational.

You can click **Show Details** on a recommendation to:

- List those instances or databases affected by the respective health check.
- Individually **Dismiss** or **Refresh** the status of a database or instance.
- View the knowledge base for the health check recommendation.
- Link to more information about the health check recommendation.

If you do not want to see these details, click **Hide Details**.

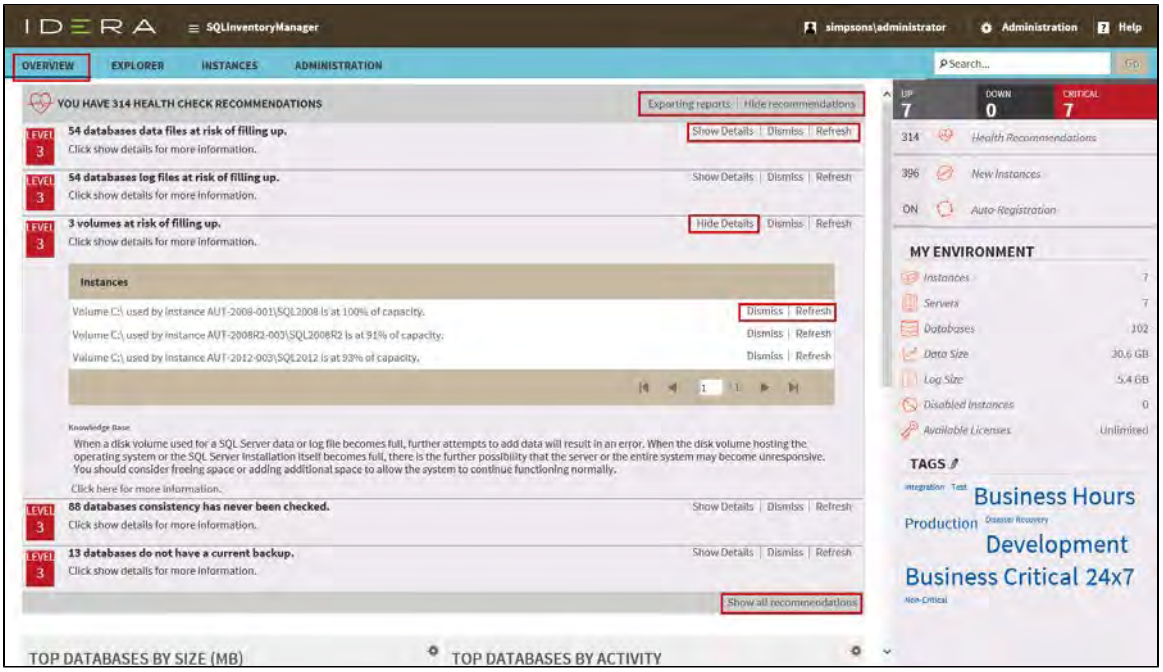
You can also **Dismiss** or **Refresh** at the level of the whole health check recommendation.

Warning

When you dismiss a health check recommendation, you choose to ignore it temporarily until the health check passes and changes to an alert status, then IDERA SQL Inventory Manager raises again the health check recommendation.

Disabling Health Checks

You can also disable the health check so that IDERA SQL Inventory Manager does not perform it anymore and therefore you no longer receive health recommendations from this health check.

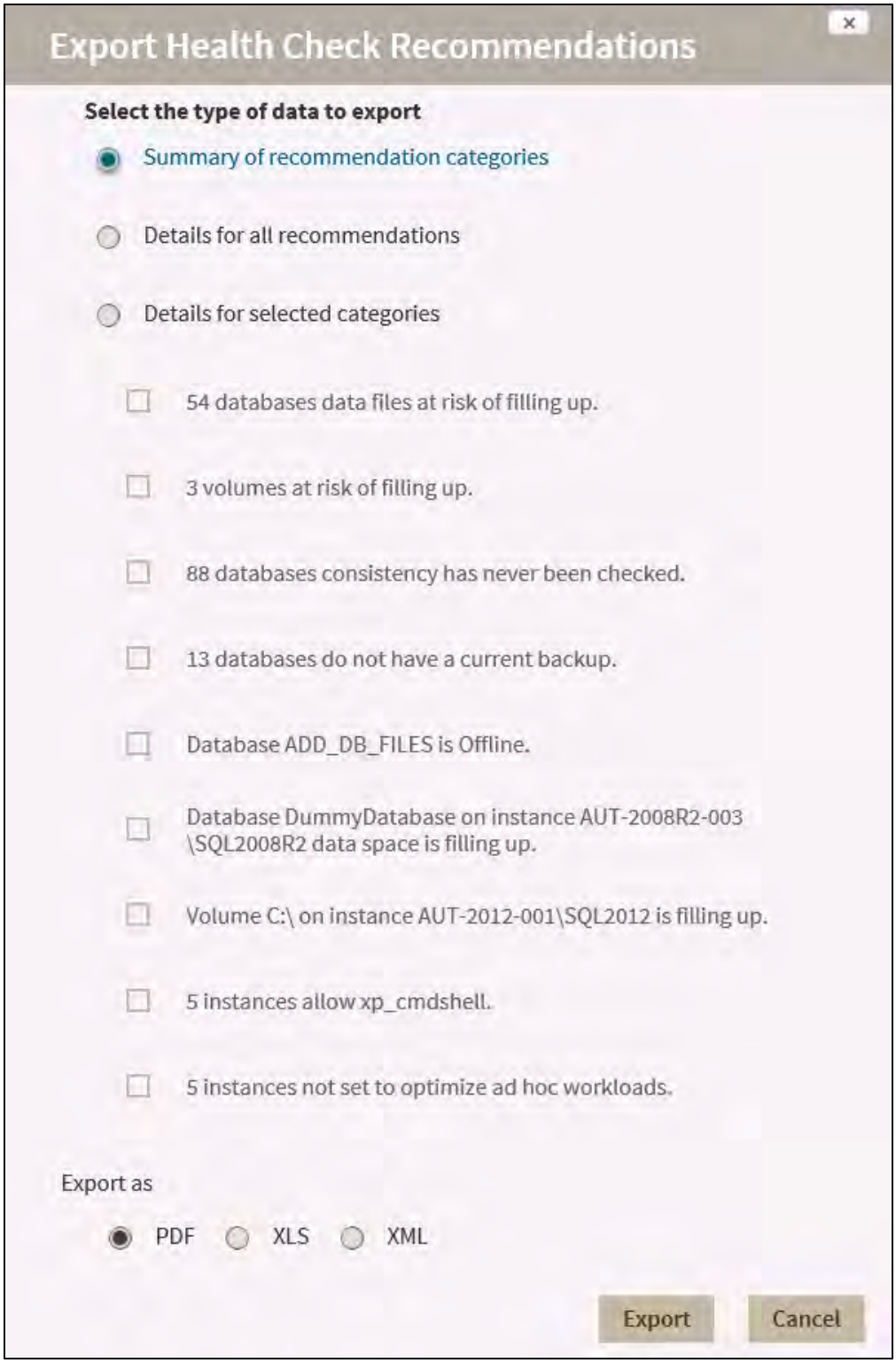


Exporting Health Checks Recommendations from the Overview

You can use the exporting option for getting reports from the recommendations displayed on the Overview. On the top right section of the Health Checks Recommendations section, you can find the **Exporting reports** option.

When you access the export option, you have the following three choices:

- **Summary of recommendation categories**. The overview displays a summary of all health check recommendations grouped by categories of recommendations. This option allows you to export this summarized information.
- **Details for all recommendations**. By using this option, you can export a report that includes all available health check recommendations in detail.
- **Details for selected categories**. With this option, you can select those categories of health check recommendations that you want to export. For example, you can choose to have a report for all databases that do not have a backup or for all the instances that are not monitored.



View Health Check Recommendations from a specific instance

When you go to an instance details view (For more information, go to Viewing instance details), you can find a report of the health check recommendations for this specific instance. These health check recommendations are grouped by health check category and ordered by level of criticality; where Level 3 is critical, Level 2 is warning, and Level 1 is informational.

You can click **Show Details** to:

- List databases affected by the health check.
- Individually **Dismiss** or **Refresh** the status of a database.
- View the knowledge base for the health check recommendation.
- Link to more information about the health check recommendation.

If you do not want to see these details, click **Hide Details**.

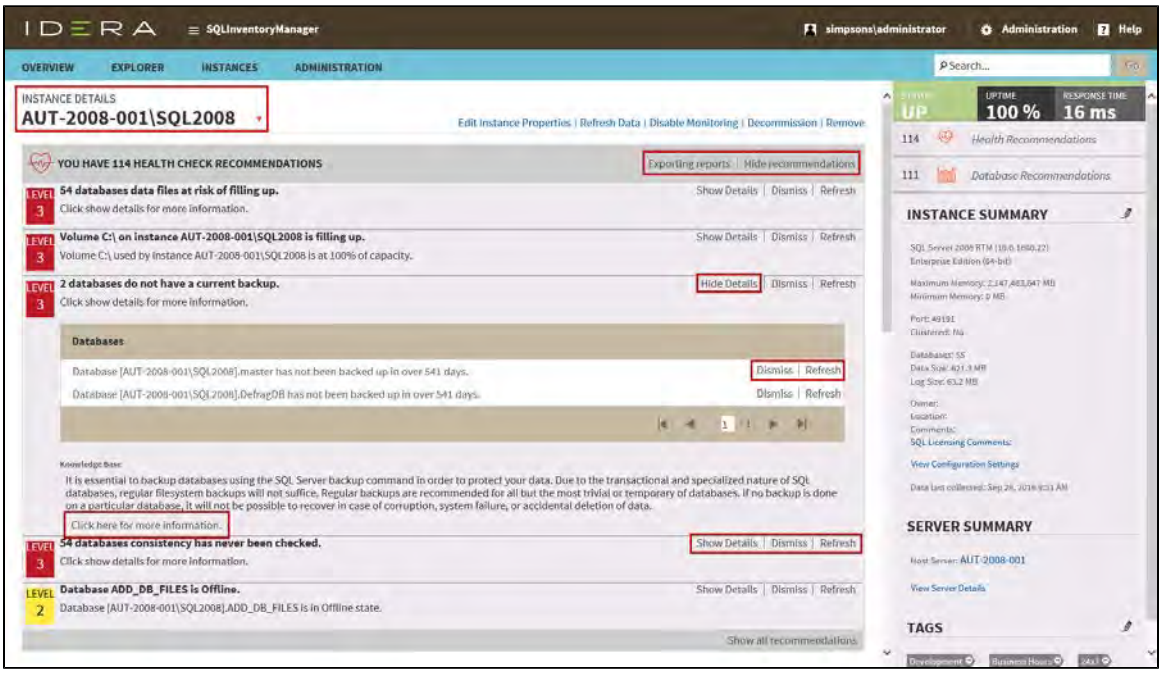
You can also **Dismiss** or **Refresh** at the level of the whole health check recommendation.

Warning

When you dismiss a health check recommendation, you choose to ignore it temporarily until the health check passes and changes to an alert status, then IDERA SQL Inventory Manager raises again the health check recommendation.

Disabling Health Checks

You can also disable the health check so that IDERA SQL Inventory Manager does not perform it anymore and therefore you no longer receive health recommendations from this health check.



Info

If you have no health check recommendations or if you dismiss all of them, you get the message: **This instance is passing all health checks**.

Exporting Health Checks Recommendations from an instance

You can also export Health Checks Recommendations from an instance by clicking **Exporting reports** on the action items options of the Health Check Recommendations section.

When you access the export option you have the following three choices for exporting recommendations:

- **Summary of recommendation categories**. The Overview displays a summary of all health checks recommendations grouped by categories of recommendations. This option allows you to export this summarized information.
- **Details for all recommendations**. By using this option, you can export a report that includes all available health check recommendations in detail.
- **Details for selected categories**. With this option you can select those categories of health check recommendations you want to export. For example, you can choose to have a report for all databases that do not have a backup or for all the instances that are not monitored.

Choose the format for exporting, IDERA SQL Inventory Manager allows you export as **PDF, XLS or XML**. Click **Export.**

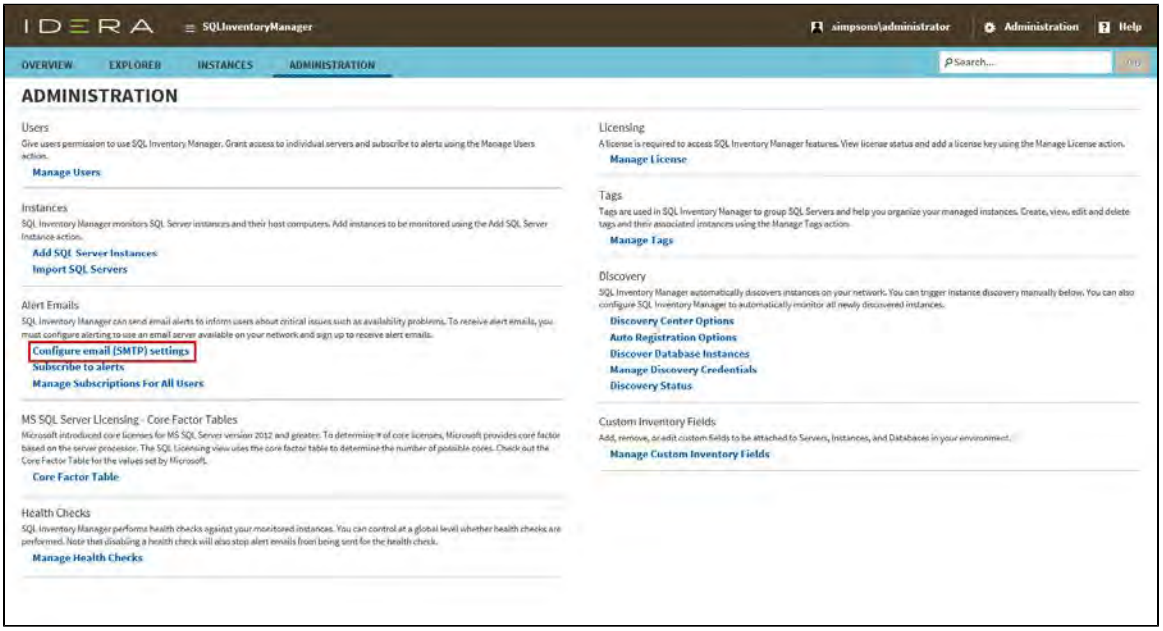
IDERA SQL Inventory Manager lets you discover and visualize your SQL Server environment. Learn more > >

IDERA Website	Products	Purchase	Support	Community	About Us	Resources	Legal

How to configure email settings

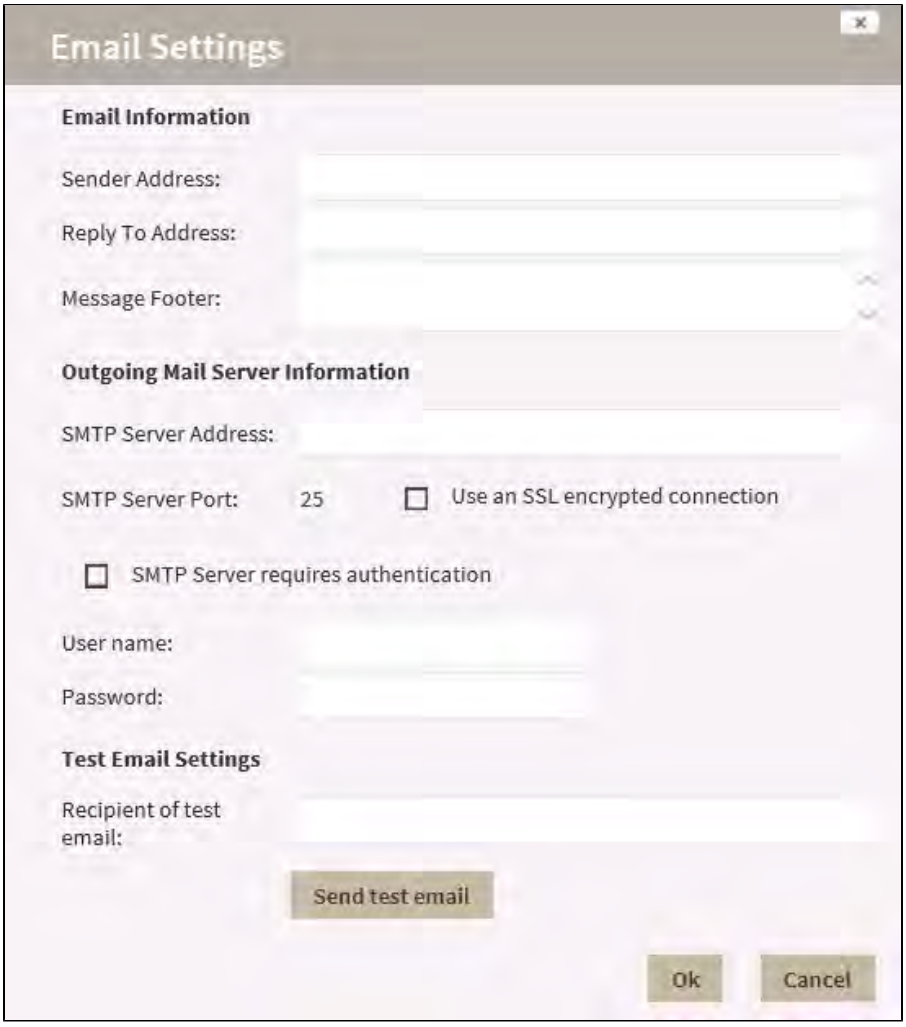
IDERA SQL Inventory Manager can send email notifications for warning or critical conditions from your environment, but before subscribing to these email notifications; you must first configure your email (SMTP) settings.

You can access this option by going to the **Administration** tab.



In the **Alert Emails** section, click **Configure email (SMTP) settings**. A dialog box opens with three main sections:

- Email Information
- Outgoing Mail Server Information
- Test Email Settings



Email Information

Sender Address

Enter the email address that IDERA SQL Inventory Manager will use as the sender of the emails notifications.

Reply To Address

Specify a reply-to email address to receive replies from emails.

Message Footer

Enter the text that you want to appear in the footer of notifications.

Outgoing Mail Server Information

In order to send email notifications, you must specify the settings of an email server you want to use. You need to provide the following information:

SMTP Server Address

Enter the name or Internet Protocol (IP) address of your SMTP mail server.

SMTP Server Port

Enter the IP port that the SMTP mail server uses. The default SMTP port is 25.

Use an SSL encrypted connection

Select this check box to use an SSL encrypted connection to connect to the email server.

SMTP Server authentication

Select this checkbox if your SMTP server requires authentication, specify then a valid user name and password to access the email server.

Test Email Settings

You can use this section to test your email settings. For this purpose, enter the **Recipient of the test email** and click **SEND TEST EMAIL**. IDERA SQL Inventory Manager sends a test email to the recipient you specify. You can verify this test email in the respective recipient account.

After you configure your email settings, you can subscribe to alerts. For more information on how to subscribe to alerts, go to Subscribing to Alerts.

Manage users

From the **Administration** tab, you can decide which users receive alerts or not. For more information, refer to Managing subscriptions for all users.

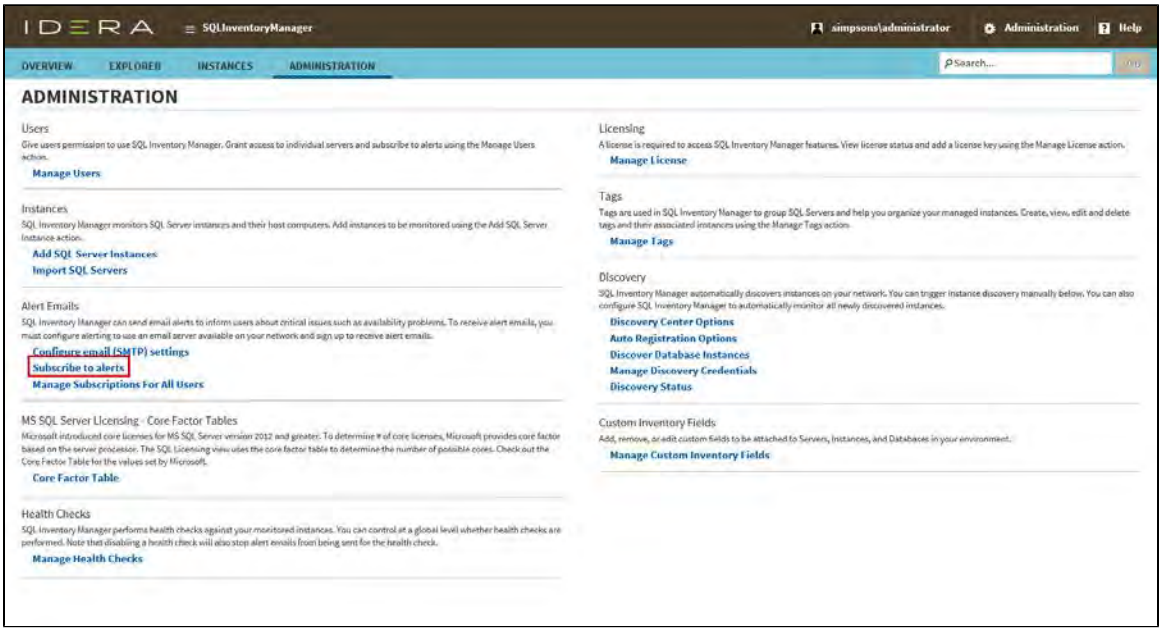
IDERA SQL Inventory Manager lets you discover and visualize your SQL Server environment. Learn more > >

IDERA Website	Products	Purchase	Support	Community	About Us	Resources	Legal

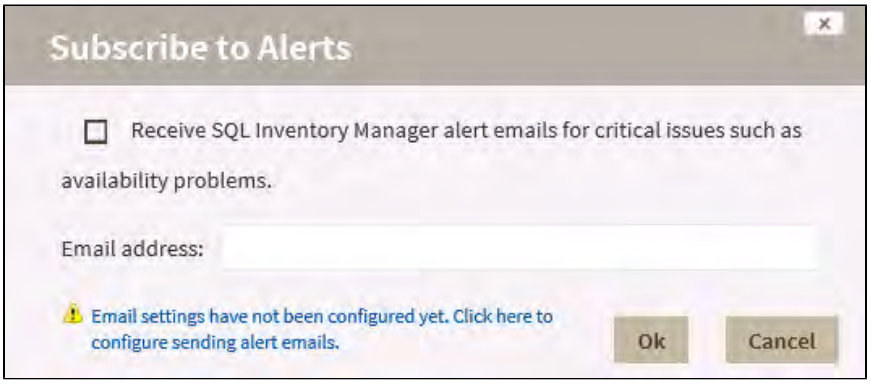
How to subscribe to Alerts

IDERA SQL Inventory Manager can send email notifications for warning or critical conditions from your environment, in order to receive these notifications you have to subscribe to alerts.

To subscribe, go to the **Administration** tab, in the **Alert Emails** section, click **Subscribe to alerts**.



On the **Subscribe to Alerts** window, check the respective box and type the email address where you want to receive these notifications.



Note

If you have not configured your email settings, IDERA SQL Inventory Manager displays **E mail settings have not been configured yet. Click here to configure sending alert emails**, click this option and fill the required fields, for more information go to Configuring email settings for alert notifications.

Manage users

You can also manage your subscriptions from the following sections:

- Managing users.
- Managing subscriptions for all users.

IDERA SQL Inventory Manager lets you discover and visualize your SQL Server environment. Learn more > >

IDERA Website	Products	Purchase	Support	Community	About Us	Resources	Legal

What Health Checks are available with SQL Inventory Manager?

IDERA SQL Inventory Manager performs Health Checks on your SQL Server instances to alert you about the availability, performance, and other critical issues of your environment.

The following table describes what type of metrics are measured, their status, when alerts are raised, their criticality levels, the collection frequency for each metric, and if email alerts are sent.

Metric	Category	Status	Alert raised when/threshold	Collection Interval	Email Alert
Instance status	Availability	up down	critical: instance down	Runs every half minute	Yes
Instance response time	Availability	response time ok slow response time	warning: 2000 ms critical: 5000 ms	Runs every half minute	Yes
Database status	Availability	normal suspect offline inaccessible emergency mode	critical: suspect, offline, inaccessible, emergency mode	Runs every day	Yes
Database never backed up	Disaster recovery	backed up never backed up	critical: never backed up	Runs every day	No
Database not backed up recently	Disaster recovery	backed up recently in the last 7 days no full backup in 7 days or more no differential backup in 7 days or more	critical: no full backup in 7 days or more warning: no differential backup in 7 days or more	Runs every day	No

Databases with no CHECKDB integrity check	Disaster recovery	CHECKDB never run	critical: CHECKDB never	Runs every day	No
Databases with no recent CHECKDB integrity check	Disaster recovery	run CHECKDB in the last 7 days no recent CHECKDB in more than 7 days no recent CHECKDB in more than 30 days	no recent CHECKDB in more than 7 days no recent CHECKDB in more than 30 days	Runs every day	No
Drives at risk	Storage capacity	below 75 % capacity between 75% and 90% above 90%	warning: between 75% and 90% critical: above 90%, server drive is at risk of being full soon	Runs hourly	Yes
Databases at risk	Storage capacity	below 75 % capacity between 75% and 90% above 90%	warning: between 75% and 90% critical: above 90%	Runs hourly	Yes
Database Auto shrink enabled	Configuration check	enabled disabled	warning: enabled	Runs every day	No
Instance xp_cmdshell enabled	Configuration check	enabled disabled	critical: enabled	Runs every day	No
Database Tempdb files not all the same size	Configuration check	same size not the same size	warning: not the same size	Runs every day	No

Refresh collection

IDERA SQL Inventory Manager allows you to refresh these metrics at any time from the instance view. For more information about this option, please refer to Viewing instance information.

Definitions

Availability Data

Availability Data refers to the instance status (up or down), instance response time, and database status (normal, suspect, offline, inaccessible or emergency mode).

Capacity data

Capacity data refers to storage capacity of your drivers and databases of your environment. IDERA SQL Inventory Manager lets you know if your drives or databases are at risk of being full soon.

CHECKDB Checks the logical and physical integrity of all the objects in the specified database. If corruption has occurred for any reason, the DBCC CHECKDB command will find it, and tell you exactly where the problem is.

Configuration Data

The following configuration data is collected:

- **Auto Shrink** SQL Server automatically shrinks databases to remove unused space. In some cases shrinking databases may not be the best option for your environment since it may cause fragmentation. This configuration check allows you to know if the Auto Shrink option is enabled or disabled.
- **Xp_cmdshell** Xp_cmdshell is essentially a mechanism to execute arbitrary calls into the system using either the SQL Server context (i.e. the Windows account used to start the service) or a proxy account that can be configured to execute xp_cmdshell using different credentials. When xp_cmdshell is enabled, the user could escalate his/her privileges to sysadmin. It is important to be aware which instances have the xp_cmdshell option enabled for security reasons. This configuration check allows you to know if xp_cmdshell is enabled or disabled in an instance.
- **Tempdb files** It is important to configure the files at the same initial size and with the same growth settings so SQL Server can write the data across the files as evenly as possible. The data files for tempdb should all be the same size and large enough to handle the workload of 24 hours a day. This helps SQL Server distribute the work evenly across the tempdb data files. This configuration check allows you to know if tempdb files are the same size or not.

Disaster recovery

Disaster recovery is a process to help you recover information if disaster occurs. Disaster recovery planning refers to the preparation that must occur in response to a disaster. IDERA SQL Inventory Manager provides Health Checks that give you information of your latest backups, alerting you if any of your databases have not been backed up recently.

For more term definitions, refer to Definition of terms.

IDERA SQL Inventory Manager lets you discover and visualize your SQL Server environment. Learn more > >

IDERA Website	Products	Purchase	Support	Community	About Us	Resources	Legal

Database at risk (Data)

REASON

SQL Server databases are primarily backed by two categories of files – data files and log files. T he data files contain all of the data related to the database, including tables, indexes, and object definitions, while the log files contain a log of all of the changes which have been made to that data. Data files are further subdivided into primary and secondary data files, which can be grouped into collections called filegroups.

RESOLUTION

As databases grow in size, the underlying data files will naturally grow as well. When a database grows to the point that a data file filegroup cannot grow any further, further attempts to add data will result in an error. When your data files are full, you can increase free space by manually increasing the size of the files, increasing the free space available on the disk, or by adding additional data files on new disks. Instructions on how to add new files are available here.

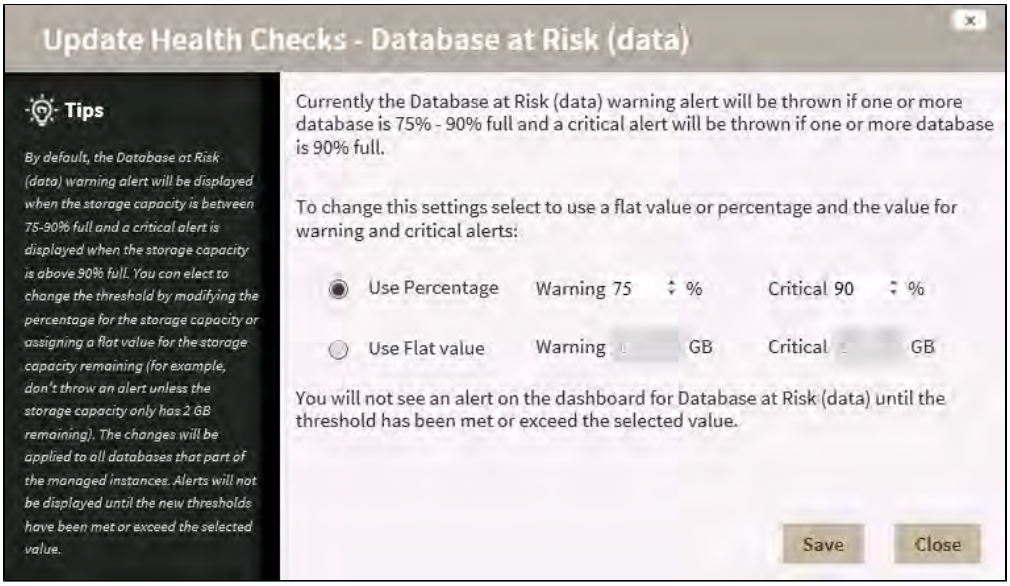
Data files may be configured to grow automatically to prevent out-of-space situations, but they remain limited by the space available on the disk drive, and autogrowth should generally be considered a failsafe alternative. It is a better practice to manually grow your data files to accommodate for expected growth before they fill up.

Update health checks

The **Database at risk (Data)** health check allows you to set the database at risk warnings as either a percentage or flat value, which represents the remaining space. You also can select the threshold values for warning and critical alerts.

By default, the Database at Risk (Data) *warning alert* is displayed when the storage capacity is between 75-90% full and a *critical alert* is displayed when the storage capacity is above 90% full. You can change the threshold by modifying the percentage for the storage capacity or assigning a flat value for the storage capacity remaining. For example, settings can prevent IDERA SQL Inventory Manager from displaying an alert unless the storage capacity has only has 2 GB remaining. The changes are applied to all databases that are part of the managed instances. After making any change, alerts are not displayed until the new thresholds meet or exceed the selected value.

To configure a health check, in the Administration view, click **Manage Health Checks**, and then click **Configure** for the appropriate health check. In this case, IDERA SQL Inventory Manager displays the Update Health Checks - Database at Risk (Data) window.



Make the appropriate changes, and then click **Save**.

Available Health Checks

For more information about the Health Checks performed by IDERA SQL Inventory Manager, go to What Health Checks are available with SQL Inventory Manager?

IDERA SQL Inventory Manager lets you discover and visualize your SQL Server environment. Learn more > >

IDERA Website	Products	Purchase	Support	Community	About Us	Resources	Legal

Database at risk (Logs)

REASON

SQL Server databases are primarily backed by two categories of files – data files and log files. T he data files contain all of the data related to the database, including tables, indexes, and object definitions, while the log files contain a log of all of the changes which have been made to that data. This separation of log and data files is critical to ensuring the recoverability of the data in the case of an unexpected server failure.

RESOLUTION

Under normal circumstances, the space in the log file is regularly reused, with space being made available for reuse through a process called log truncation. When log truncation cannot occur for some reason, the log file will attempt to grow if autogrow is enabled and the file has not reached its maximum size. When a log file becomes full and can no longer grow, attempts to modify or add data to the database will produce an error: the database essentially becomes read-only.

When a database log file is full, it is important to identify what is preventing log truncation from occurring. Two common reasons that the log might not be truncating include:

- For databases which are operating in the full or bulk logged recovery model, the log file will grow indefinitely until a backup is taken. In this case, you need to back up your log file and either schedule regular backups to continue, or consider changing the log truncation of your database to better fit your needs.
- For databases of any recovery model, a long running transaction will prevent the log from being truncated. You may need to identify and either commit or kill the offending transaction, or in the case of an important business transaction, you may need to grow the log file to allow it to finish.

There are other reasons truncation may not occur: full details are available here.

If you are not immediately able to resolve the problem that is preventing log truncation, you may need to take another action to create space for the log file. This can include freeing disk space, manually increasing the log file size, or adding an additional log file. Each of those options, along with their implications, is explained here, and can be summarized thus:

- Back up the database log
- Free disk space to allow autogrow
- Manually increase the size of the log file, in cases where autogrow is disabled
- Move the log file to a new, larger disk
- Add an additional log on a different disk
- Complete or kill the longest running transaction

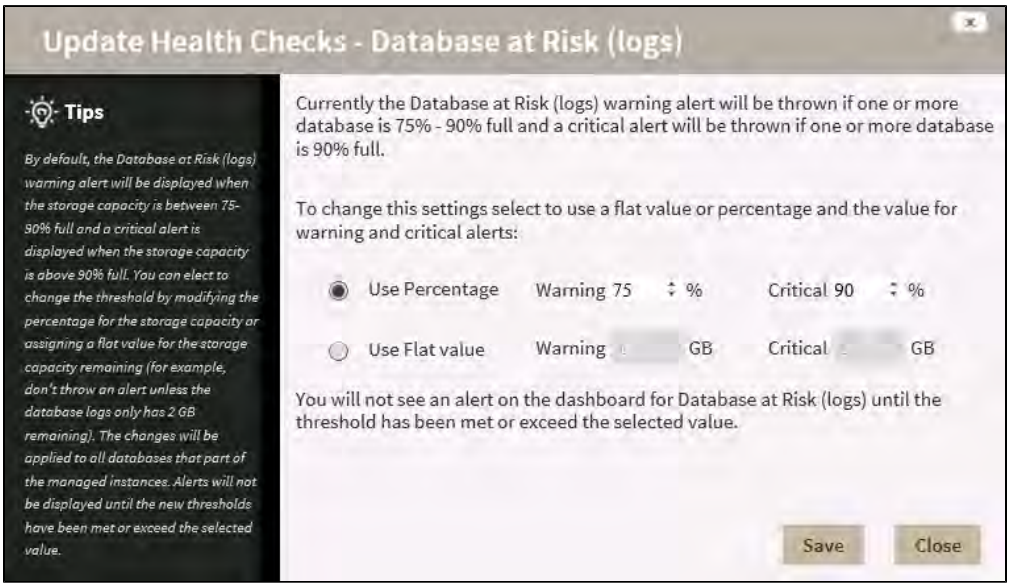
It's a good practice to keep an eye on the sizes of your log files and the space remaining and to take action before reaching a critical stage. You can read more about managing transaction log sizes here.

Update health checks

The **Database at risk (Logs)** health check allows you to set the database at risk warnings as either a percentage or flat value, which represents the remaining space. You also can select the threshold values for warning and critical alerts.

By default, the Database at Risk (logs) *warning alert* is displayed when the storage capacity is between 75-90% full and a *critical alert* is displayed when the storage capacity is above 90% full. You can change the threshold by modifying the percentage for the storage capacity or assigning a flat value for the storage capacity remaining. For example, settings can prevent IDERA SQL Inventory Manager from displaying an alert unless the database log has only has 2 GB remaining. The changes are applied to all databases that are part of the managed instances. After making any change, alerts are not displayed until the new thresholds meet or exceed the selected value.

To configure a health check, in the Administration view, click **Manage Health Checks**, and then click **Configure** for the appropriate health check. In this case, IDERA SQL Inventory Manager displays the Update Health Checks - Database at Risk (logs) window.



Make the appropriate changes, and then click **Save**.

Available Health Checks

For more information about the Health Checks performed by IDERA SQL Inventory Manager, go to What Health Checks are available with SQL Inventory Manager?

IDERA SQL Inventory Manager lets you discover and visualize your SQL Server environment. Learn more > >

IDERA Website	Products	Purchase	Support	Community	About Us	Resources	Legal

Database backup is not current

REASON

Disaster recovery is deeply embedded into the design of SQL Server, and as such, it is important to carefully understand and manage your database backup policies. SQL Server databases must be backed up using the built-in BACKUP command, either natively within SQL Server or through the use of a SQL-specific, third-party tool. If no backup is done on a particular database, it is impossible to recover in case of corruption, system failure, or accidental data deletion. **Regular filesystem backups are not a substitute for database backups**.

RESOLUTION

Refer to the Microsoft Technet article *Backup (Transact-SQL)* for an overview of backup operations in SQL Server. All databases include a configured recovery model, which dictates the type of backup and restore operations that are available. In all cases, perform a full backup of any database that has never experienced a backup. In the simple recovery model, perform regular, full backups on an ongoing basis while using the full or bulk-logged recovery model. In addition, add regular log and differential backups to the full backup schedule.

Update Health Check

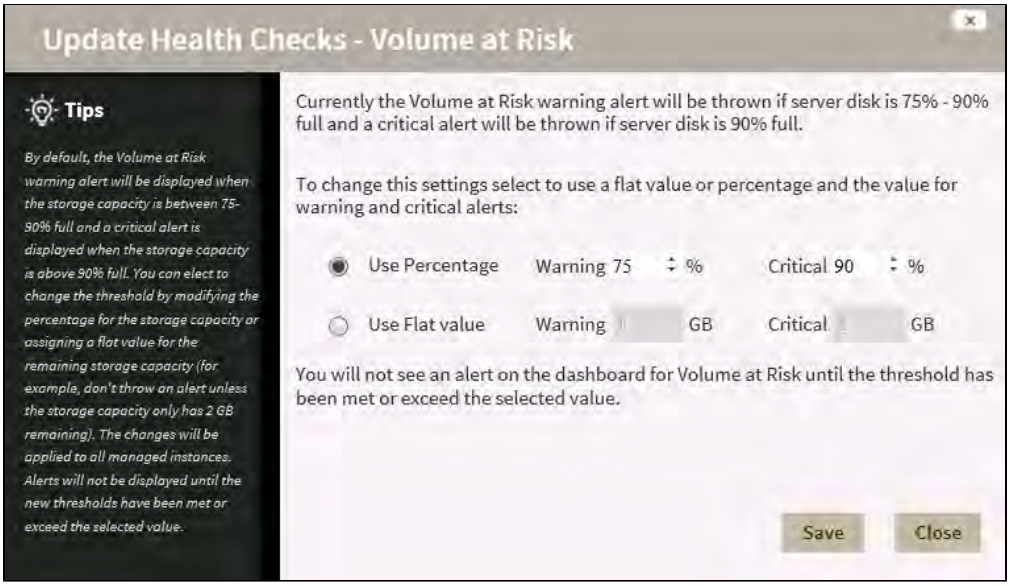
The **Database backup is not current** health check alerts you when the indicated database does not have a current backup file. Currently, this alert is displayed when the database backup meets either one of the following conditions:

1. No differential backup in 7 days or more (Warning Alert)
2. No full backup in 7 days or more (Critical Alert)

IDERA SQL Inventory Manager does not display this alert for excluded databases. After making any change, alerts are not displayed until the new thresholds met or exceed the selected value.

Note that this window allows you to exclude databases from this alert by selecting and moving the database from **Available databases** to **Excluded databases** Lists.

To configure a health check, in the Administration view, click **Manage Health Checks**, and then click **Configure** for the appropriate health check. In this case, IDERA SQL Inventory Manager displays the Update Health Checks - Database backup is not Current window.



Make the appropriate changes, and then click **Save**.

Available Health Checks

For more information about the Health Checks performed by IDERA SQL Inventory Manager, go to What Health Checks are available with SQL Inventory Manager?

IDERA SQL Inventory Manager lets you discover and visualize your SQL Server environment. Learn more > >

IDERA Website	Products	Purchase	Support	Community	About Us	Resources	Legal

Database consistency has never been checked

REASON

All SQL Server databases are susceptible to corruption, which can cause serious or even complete data loss in extreme circumstances. It is therefore important to verify the logical and physical integrity of databases on a regular basis by running DBCC CHECKDB. If a database has never been checked for consistency it is possible that corruption has already occurred.

RESOLUTION

If and when corruption is detected, the safest (and sometimes only) way to recover lost data is to restore from a backup. It's therefore a good practice to run DBCC CHECKDB at least often enough that should corruption be detected, your backup frequency and retention period will allow you to restore back to before the problem occurred.

Databases where DBCC CHECKFILEGROUP was run, may not cause an alert even though CHECKDB did not run. There is no reliable way to differentiate between the two commands using DBCC LastKnownGood.

IDERA SQL Inventory Manager lets you discover and visualize your SQL Server environment. Learn more > >

IDERA Website	Products	Purchase	Support	Community	About Us	Resources	Legal

Database consistency has not been checked recently

REASON

All SQL Server databases are susceptible to corruption, which can cause serious or even complete data loss in extreme circumstances. It is therefore important to verify the logical and physical integrity of databases on a regular basis by running DBCC CHECKDB.

RESOLUTION

If and when corruption is detected, the safest (and sometimes only) way to recover lost data is to restore from a backup. It's therefore a good practice to run DBCC CHECKDB at least often enough that should corruption be detected, your backup frequency and retention period will allow you to restore back to before the problem occurred.

IDERA SQL Inventory Manager lets you discover and visualize your SQL Server environment. Learn more > >

IDERA Website	Products	Purchase	Support	Community	About Us	Resources	Legal

Database does not have a backup

REASON

Disaster recovery is deeply embedded into the design of SQL Server, and as such, it is important to carefully understand and manage your database backup policies. SQL Server databases must be backed up using the built-in BACKUP command, either natively within SQL Server or through the use of a SQL-specific, third-party tool. If no backup is done on a particular database, it is impossible to recover in case of corruption, system failure, or accidental data deletion. **Regular filesystem backups are not a substitute for database backups**.

RESOLUTION

Refer to the Microsoft Technet article *Backup (Transact-SQL)* for an overview of backup operations in SQL Server. All databases include a configured recovery model, which dictates the type of backup and restore operations that are available. In all cases, perform a full backup of any database that has never experienced a backup. In the simple recovery model, perform regular, full backups on an ongoing basis while using the full or bulk-logged recovery model. In addition, add regular log and differential backups to the full backup schedule.

IDERA SQL Inventory Manager lets you discover and visualize your SQL Server environment. Learn more > >

IDERA Website	Products	Purchase	Support	Community	About Us	Resources	Legal

Database has autoshrink enabled

REASON

IDERA SQL Inventory Manager has detected that Autoshrink is enabled on one or more databases. This configuration option causes significant performance problems and it is a best practice to disable it for all databases.

RESOLUTION

You can disable Autoshrink by running the command `ALTER DATABASE <dbname> SET AUTO_SHRINK OFF`.

IDERA SQL Inventory Manager lets you discover and visualize your SQL Server environment. Learn more > >

IDERA Website	Products	Purchase	Support	Community	About Us	Resources	Legal

Database is not in a usable state

REASON

IDERA SQL Inventory Manager detected a database that in an inaccessible state. This could be an expected or intentional action - for example, if a restore operation is being performed, or if a database has been explicitly set offline - but it could also be a serious problem, so it should be investigated.

RESOLUTION

If the state of the database is expected, you may safely dismiss this recommendation.

IDERA SQL Inventory Manager lets you discover and visualize your SQL Server environment. Learn more > >

IDERA Website	Products	Purchase	Support	Community	About Us	Resources	Legal

Limited permissions

REASON

The account being used by IDERA SQL Inventory Manager to monitor this SQL Server instance does not have sufficient permissions to perform all health checks. The product will continue to function, but health checks which require elevated permissions will not be performed.

RESOLUTION

For details about what permissions are required, please click here.

IDERA SQL Inventory Manager lets you discover and visualize your SQL Server environment. Learn more > >

IDERA Website	Products	Purchase	Support	Community	About Us	Resources	Legal

Optimize for adhoc workloads disabled

REASON

SQL Server caches the execution plans for queries in an area of memory called the plan cache. When a server executes a large number of single-use queries, which can be a common scenario for certain applications, the space used caching these various execution plans can grow quite large, possibly impacting server performance for very little benefit.

RESOLUTION

The server configuration "optimize for ad hoc workloads" changes the behavior of the instance such that the first time a statement is run, a very small version of the plan called a stub is cached, and it is only once the query is executed a second time that the full execution plan is stored. While there are special cases where this option may have a negative impact, for most environments turning this option on will have a positive or neutral effect on the server.

IDERA SQL Inventory Manager lets you discover and visualize your SQL Server environment. Learn more > >

IDERA Website	Products	Purchase	Support	Community	About Us	Resources	Legal

SQL Server instance is down

REASON

IDERA SQL Inventory Manager connects frequently to managed SQL Server instances to ensure they are available and responsive. If the SQL Server instance becomes unreachable for any reason, an alert will be raised to let operators know that an availability problem may have arisen.

RESOLUTION

First, attempt to connect to the SQL Server instance by means other than IDERA SQL Inventory Manager. If the connection fails, take note of any error message, which may in some cases explain what the issue is. If the message is not helpful or if the connection simply times out, verify whether the host Windows server is available through a ping test or by attempting to connect via remote desktop. If the server is not responsive, it may be necessary to troubleshoot further to determine whether it is a network issue or whether the server is itself offline or unresponsive. When the server is verified to be back online and reachable, check to make sure that the SQL Server services are started for any and all hosted SQL Server instances.

If the SQL Server instance or Windows server was offline and the downtime sudden or unexpected, SQL Server may need to run recovery for its hosted databases before the instance will be fully available again. Recovery is the process by which completed database transactions are recovered and incomplete transactions are rolled back, bringing the system back into a consistent state. This may complete quickly or it could take an extended period of time, so pay close attention to the status of the databases on this instance until they are all accessible again.

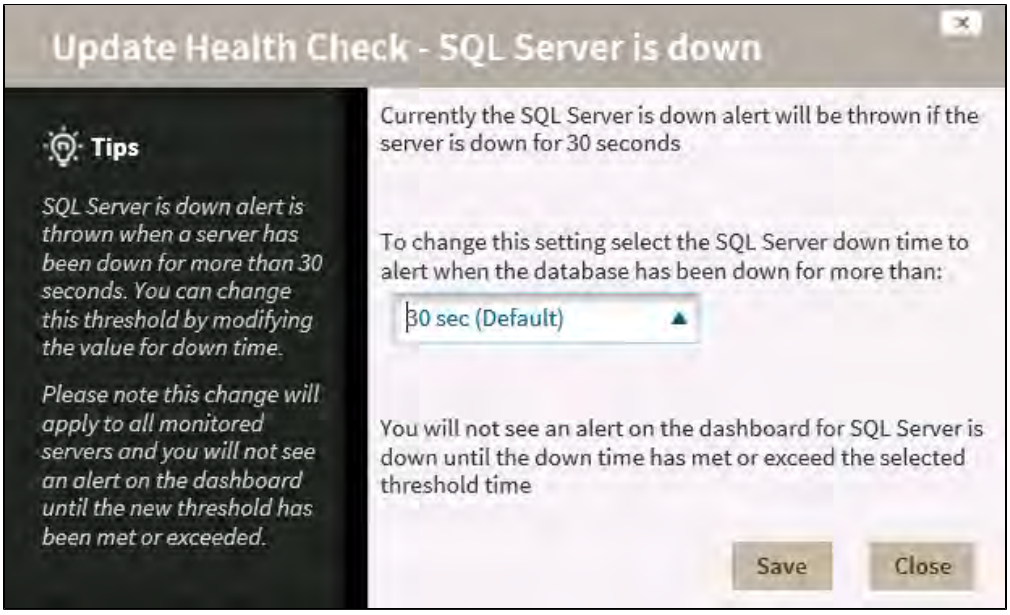
If the server is online and this message appears to be in error, it could be that network or security issues are preventing IDERA SQL Inventory Manager from making a connection. Ensure that IDERA SQL Inventory Manager is connecting to the SQL Server with credentials that have the right to connect to the target server.

Update Health Check

The **SQL Server is down** health check alerts you when a server is down for more than 30 seconds. You can change this threshold by modifying the value for down time.

Please note that this change applies to all monitored servers. After making any change, alerts are not displayed until the new thresholds met or exceed the selected value.

To configure a health check, in the Administration view, click **Manage Health Checks**, and then click **Configure** for the appropriate health check. In this case, IDERA SQL Inventory Manager displays the Update Health Checks - SQL Server is down window.



Make the appropriate changes, and then click **Save**.

Available Health Checks

For more information about the Health Checks performed by IDERA SQL Inventory Manager, go to What Health Checks are available with SQL Inventory Manager?

IDERA SQL Inventory Manager lets you discover and visualize your SQL Server environment. Learn more > >

IDERA Website	Products	Purchase	Support	Community	About Us	Resources	Legal

SQL Server is slow

REASON

When it takes more than a few seconds for IDERA SQL Inventory Manager to connect to a managed server, an action item is raised indicating that the server is slow. A sluggish connection can be very evident to end users and is a tell-tale sign that something may be going wrong on the server.

RESOLUTION

Troubleshooting a slow SQL Server can be an involved process, not all of which can be easily discussed in the course of a single article, but it is a good idea to take a look at the server workload, the network responsiveness, and the underlying subsystems (including disk and virtualization platforms).

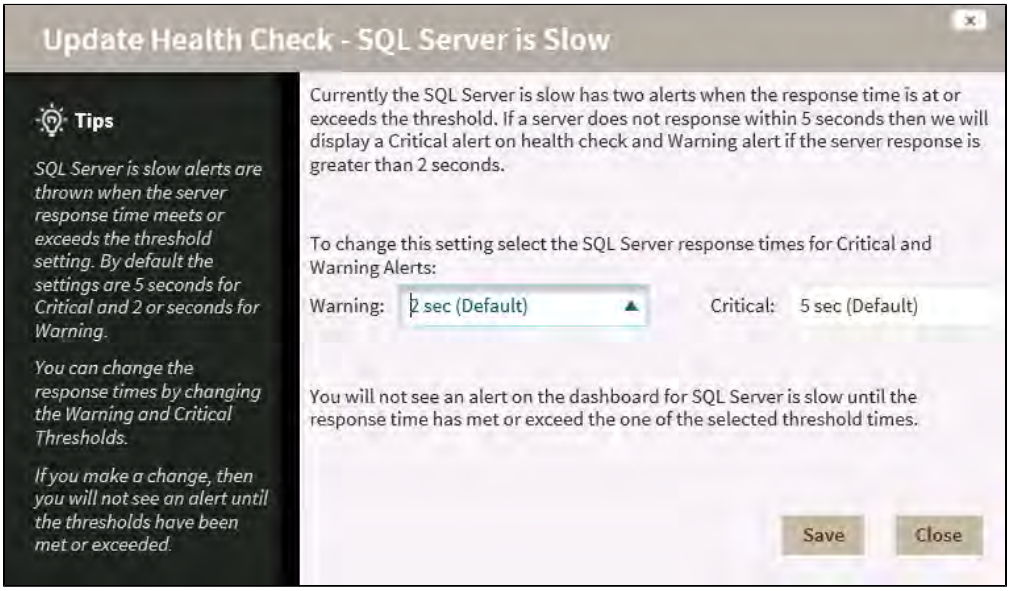
SQL Servers may naturally become less responsive under certain predicted loads, and if the issue is short term and expected (such as during a maintenance window) this warning may be safely ignored.

Update Health Check

The **SQL Server is slow** health check alerts you when the SQL Server response time is slower than the set threshold.

By default, the SQL Server is Slow *warning alert* is displayed when the response time is greater than 2 seconds and a *critical alert* is displayed when the response time is greater than 5 seconds. After making any change, alerts are not displayed until the new thresholds met or exceed the selected value.

To configure a health check, in the Administration view, click **Manage Health Checks**, and then click **Configure** for the appropriate health check. In this case, IDERA SQL Inventory Manager displays the Update Health Checks - SQL Server is slow window.



Make the appropriate changes, and then click **Save**.

Available Health Checks

For more information about the Health Checks performed by IDERA SQL Inventory Manager, go to What Health Checks are available with SQL Inventory Manager?

IDERA SQL Inventory Manager lets you discover and visualize your SQL Server environment. Learn more > >

IDERA Website	Products	Purchase	Support	Community	About Us	Resources	Legal

Tempdb inconsistent file sizes

REASON

IDERA SQL Inventory Manager detected that the file sizes for tempdb are not equal for one or more SQL Server instances. While this is not a critical error, the size difference can lead to performance problems for tempdb, which is a shared system resource and therefore impacts the entire SQL Server instance.

RESOLUTION

It is a best practice to have tempdb divided into multiple equally sized files, each of which has been pre-sized to lessen the chance of autogrow occurring. If autogrow does occur and the database files are no longer balanced, it would be a good idea to resize the files such that they are the same size again when you are able to.

IDERA SQL Inventory Manager lets you discover and visualize your SQL Server environment. Learn more > >

IDERA Website	Products	Purchase	Support	Community	About Us	Resources	Legal

Unable to monitor SQL Server instance

REASON

IDERA SQL Inventory Manager connects frequently to managed SQL Server instances to ensure they are available and responsive. If the SQL Server instance becomes unreachable for any reason, an alert will be raised to let operators know that an availability problem may have arisen.

RESOLUTION

First, attempt to connect to the SQL Server instance by means other than IDERA SQL Inventory Manager. If the connection fails, take note of any error message, which may in some cases explain what the issue is. If the message is not helpful or if the connection simply times out, verify whether the host Windows server is available through a ping test or by attempting to connect via remote desktop. If the server is not responsive, it may be necessary to troubleshoot further to determine whether it is a network issue or whether the server is itself offline or unresponsive. When the server is verified to be back online and reachable, check to make sure that the SQL Server services are started for any and all hosted SQL Server instances.

If the SQL Server instance or Windows server was offline and the downtime sudden or unexpected, SQL Server may need to run recovery for its hosted databases before the instance will be fully available again. Recovery is the process by which completed database transactions are recovered and incomplete transactions are rolled back, bringing the system back into a consistent state. This may complete quickly or it could take an extended period of time, so pay close attention to the status of the databases on this instance until they are all accessible again.

If the server is online and this message appears to be in error, it could be that network or security issues are preventing IDERA SQL Inventory Manager from making a connection. Ensure that IDERA SQL Inventory Manager is connecting to the SQL Server with credentials that have the right to connect to the target server.

IDERA SQL Inventory Manager lets you discover and visualize your SQL Server environment. Learn more > >

IDERA Website	Products	Purchase	Support	Community	About Us	Resources	Legal

Unable to monitor with WMI

REASON

IDERA SQL Inventory Manager will attempt to verify the availability of a SQL Server by contacting its host Windows server. If the server becomes unreachable for any reason, an alert will be raised to let operators know that an availability problem may have arisen.

RESOLUTION

Verify whether the server is available through a ping test or by attempting to connect via remote desktop. If the server is not responsive, it may be necessary to troubleshoot further to determine whether it is a network issue or whether the server is itself offline or unresponsive. Once the server is verified to be back online and reachable, check to make sure that the SQL Server services are started for any and all hosted SQL Server instances.

If the server was offline and the downtime sudden or unexpected, SQL Server may need to run recovery for its hosted databases before the instance will be fully available again. Recovery is the process by which completed database transactions are recovered and incomplete transactions are rolled back, bringing the system back into a consistent state. This may complete quickly or it could take an extended period of time, so pay close attention to the status of the databases on this instance until they are all accessible again.

If the server is online and this message appears to be in error, it could be that network or security issues are preventing IDERA SQL Inventory Manager from making a connection. Ensure that IDERA SQL Inventory Manager is connecting to the SQL Server with credentials that have the right to make WMI calls to the target server.

In order to use WMI, the user account under which the Collection Service runs must have administrator permissions on the remote server. The most frequently encountered problems with WMI relate to RPC traffic failing to get through to the remote computer. Another issue involves DCOM/WMI permissions.

The following links provide additional information about how to troubleshoot WMI connectivity issues:

- Securing a Remote WMI Connection
- Help with scripts

Using WbemTest (Windows Management Instrumentation Tester)

You can use the Wbem Test tool to connect to a server and issue WMI queries. This tool helps you test and troubleshoot WMI issues.

To use WbemTest:

1. Run `wbemtest.exe`.
2. Click **Connect**.
3. In the **NameSpace text** box, enter `\\`*`server`*`\root\cimv2` where *`server`* is the name of the server to which you want to connect.
4. Click **Connect**.
5. Click **Query**.
6. Enter `select*` from win32_process.

7. Click **Apply**.

If WbemTest connects to the remote server and issues the query using WMI, you should see a query result with output. In this case, WMI to the required server is working and no further action is needed. For more information on the Windows Management Instrumentation Tester, refer to the Microsoft document, Windows Management Instrumentation Tester overview.

If you receive an error message, use the following processes to help identify and resolve the issue.

Error: The RPC Server Is Unavailable

This error usually indicates that the RPC traffic is not getting to the remote server, or there is no RPC listener on the remote server.

To troubleshoot this RPC error:

1. Make sure that the Remote Procedure Call (RPC) service is running on the remote server.
2. Verify that there is a TCP listener on the remote server by running the netstat -nao command and verifying that there is the following entry: `TCP 0.0.0.0:135 0.0.0.0:0 LISTENING 1304`.
3. In the Tools subdirectory, run `rpcping /s <servername> /t ncacn_ip_tcp` where *<servername>* is the name of the remote server. This command verifies that RPC can communicate with the remote server and output similar to:
   Completed 1 calls in 15 ms
   66 T/S or 15.000 ms/T
4. Make sure that local or internal network firewalls do not block traffic by either disabling the firewall or configuring the Windows firewall to allow incoming RPC traffic.
5. Try to use the remote server IP address instead of the server name. If the IP address works, you may have a DNS issue.
6. If the remote server resides in a different domain, the two domains may not trust each other, or the user account does not have administrator permissions on the remote server/domain.
7. If both computers are in the same domain, and the user account has administrator permissions, try rejoining both computers to the domain.

Error: Access Denied

This error can indicate permission issues.

To troubleshoot this access error:

1. If the remote computer is running Windows XP, make sure it is not set to Force Guest. This setting forces impersonation of any connection as Guest.
   a. Open the Local Security Policy console from Administrative Tools.
   b. Browse to Security Settings > Local Policies > Security Options.
   c. Double-click **Network Access: Sharing And Security Model For LocalAccounts**.
   d. Change the settings from **Guest Only** to **Classic**.
2. Make sure DCOM is enabled on the remote server:
   a. Run `DcomCnfg` on the remote server.
   b. Click **Component Services**.
   c. Expand **Computers**.

   d. Right click **My Computer** and select **Properties**.
   e. Click the Default Properties tab.
   f. Make sure **Enable Distributed COM** on this computer is checked.
3. Verify the configuration of the correct DCOM remote launch and activation permissions:
   a. Run `DcomCnfg` on the remote server.
   b. Click **Component Services**.
   c. Expand **Computers**.
   d. Right click **My Computer** and select **Properties**.
   e. Make sure **Enable Distributed COM** on this computer is checked.
   f. Click the Com Security tab.
   g. Under **Launch and Activation Permissions**, click **Edit Limits**.
   h. In the Launch Permissions dialog box, make sure your user account or group is listed in the Groups or user names list. If your user account or group is not listed, click **Add** and add it to the list.
   i. In the Launch Permission dialog box, select your user account or group in the Group or user names list. In the **Allow** column under Permissions for User, select **Remote Launch** and **Remote Activation**, and then click **OK**.
4. Make sure the correct DCOM remote access permissions are configured:
   a. Run `DcomCnfg` on the remote server.
   b. Click **Component Services**.
   c. Expand **Computers**.
   d. Right click **My Computer** and select **Properties**.
   e. Make sure **Enable Distributed COM** on this computer is checked.
   f. Click the Com Security tab.
   g. Under **Access Permissions**, click **Edit Limits**.
   h. In the Access Permission dialog box, select `ANONYMOUS LOGON` name in the **Group or user names** list. In the **Allow** column under **Permissions for User**, select **Remote Access**, and then click **OK**.
5. Make sure the correct WMI namespace permissions are configured.
   a. Run `wmimgmt.msc`.
   b. Right-click **WMI Control**, and then select **Connect to another computer**.
   c. Enter the remote server name, and then click **OK**.
   d. Right-click **WMI Control**, and then select **Properties**.
   e. In the Security tab, select the **namespace**, and then click **Security**.
   f. Locate the appropriate account, and then check **Remote Enable** in the Permissions list.

IDERA SQL Inventory Manager lets you discover and visualize your SQL Server environment. Learn more > >

IDERA Website	Products	Purchase	Support	Community	About Us	Resources	Legal

Volume at risk

REASON

When a disk volume used for a SQL Server data or log file becomes full, further attempts to add data will result in an error. When the disk volume hosting the operating system or the SQL Server installation itself becomes full, there is the further possibility that the server or the entire system may become unresponsive.

RESOLUTION

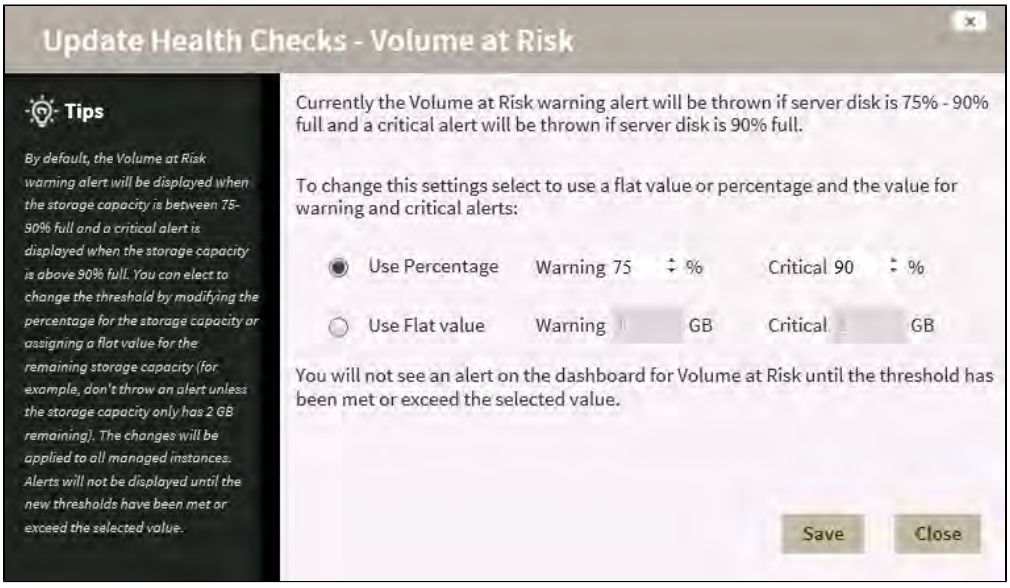
You should consider freeing space or adding additional space to allow the system to continue functioning normally. Click here for more information.

Update Health Checks

The **Volume at risk** health check alerts you when the indicated database does not have a current backup file.

By default, the Volume at Risk *warning alert* is displayed when the storage capacity is between 75-90% full and a *critical alert* is displayed when the storage capacity is above 90% full. You can change the threshold by modifying the percentage for the storage capacity or assigning a flat value for the storage capacity remaining. For example, settings can prevent IDERA SQL Inventory Manager from displaying an alert unless the storage capacity has only has 2 GB remaining. The changes are applied to all databases that are part of the managed instances. After making any change, alerts are not displayed until the new thresholds meet or exceed the selected value.

To configure a health check, in the Administration view, click **Manage Health Checks**, and then click **Configure** for the appropriate health check. In this case, IDERA SQL Inventory Manager displays the Update Health Checks - Volume at Risk window.



Make the appropriate changes, and then click **Save**.

Available Health Checks

For more information about the Health Checks performed by IDERA SQL Inventory Manager, go to What Health Checks are available with SQL Inventory Manager?

IDERA SQL Inventory Manager lets you discover and visualize your SQL Server environment. Learn more > >

IDERA Website	Products	Purchase	Support	Community	About Us	Resources	Legal

xp_cmdshell enabled

REASON

The xp_cmdshell extended stored procedure allows a Windows shell command to be executed from within a SQL Server connection. This command can be used for malicious purposes and is disabled by default in SQL Server.

RESOLUTION

If the command is not being used, or if the use of the command can be eliminated, you can disable xp_cmdshell with this command:

```
exec sp_configure 'show advanced options',1
reconfigure
exec sp_configure 'xp_cmdshell',0
reconfigure
```

If xp_cmdshell must remain enabled in your environment, consider changing the proxy account used to execute the commands under in order to reduce risk using the `sp_xp_cmdshell_proxy_account` command. Full details of how to accomplish this are available at this link.

IDERA SQL Inventory Manager lets you discover and visualize your SQL Server environment. Learn more > >

IDERA Website	Products	Purchase	Support	Community	About Us	Resources	Legal

Exporting reports

IDERA SQL Inventory Manager brings you the opportunity to export useful information for managing your environment. You can export reports from the Health Checks Recommendations, Instances view, and the Explorer view. Additionally, you can choose between three types of formats for your reports: PDF, XLS, or XML.

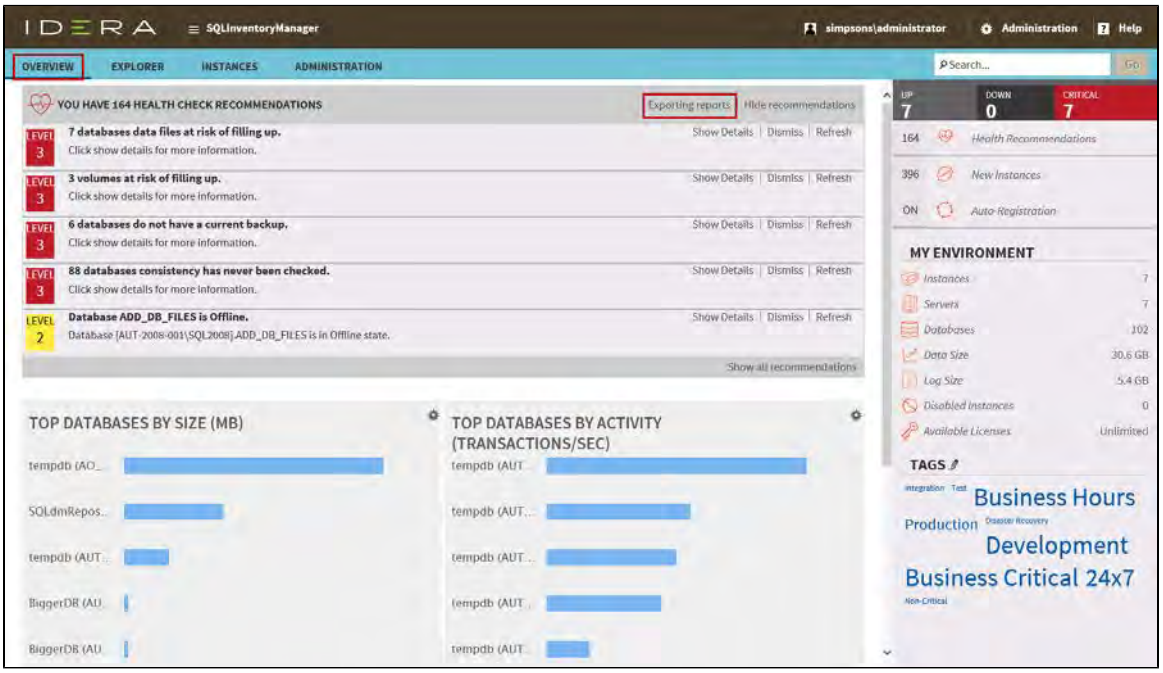
Exporting reports of specific health check recommendations, your managed instances, databases filtered by owner, are just some examples of the many possibilities for exporting the information that will help you manage your SQL Server environment.

Exporting Health Checks Recommendations

You can export the information from the Health Check Recommendations displayed on the Overview or the ones available on an Instance Details view. On each view, IDERA SQL Inventory Manager allows you to choose the type of information you want to export and the format for exporting.

Exporting from the Overview

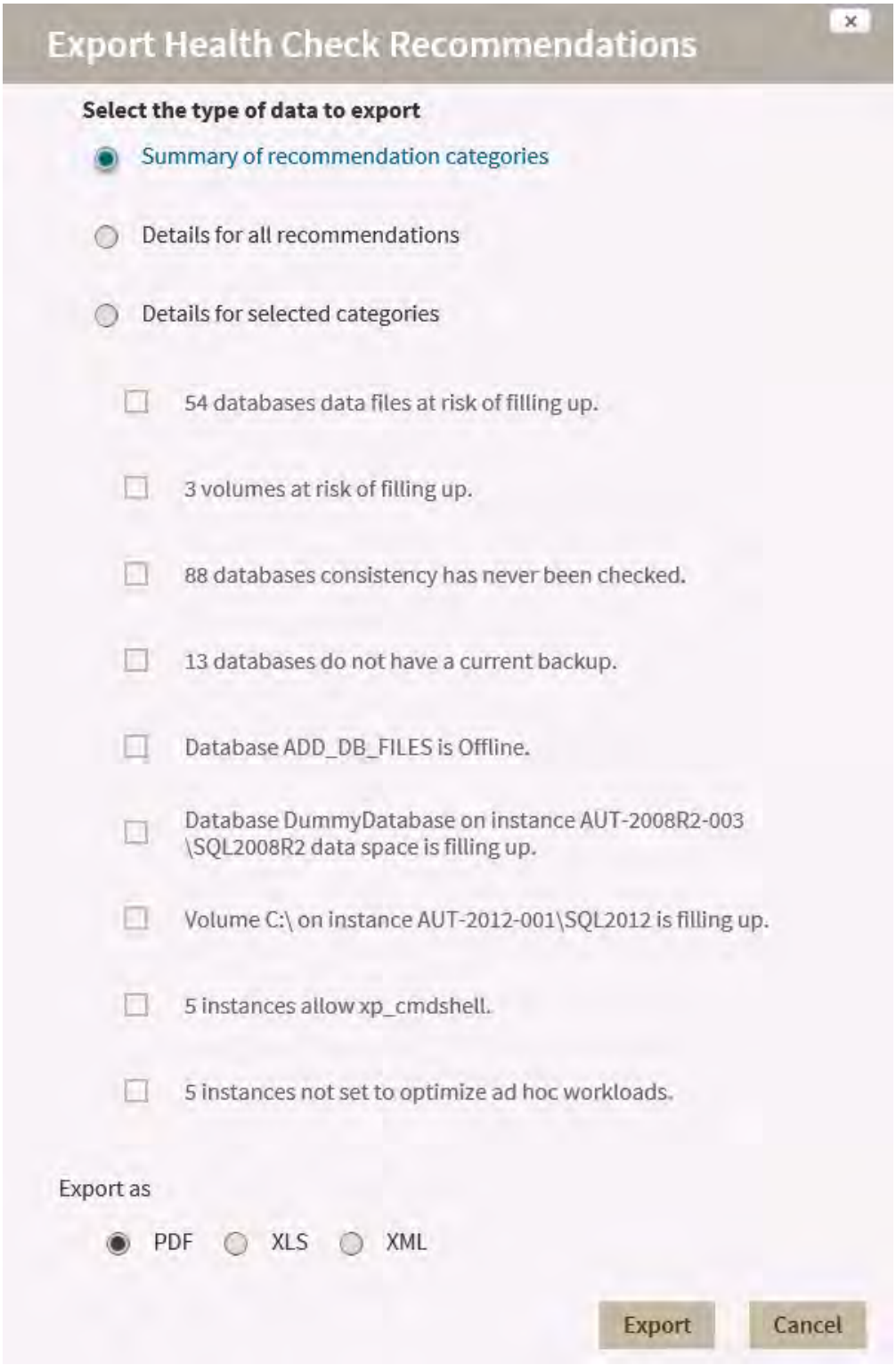
The overview provides you with the most important information from your SQL Server instances. You can use the exporting option for getting reports from these recommendations. On the top right section of the Health Checks Recommendations section, you can find the option **Exporting reports**.



When you access this option, you have the following three choices for exporting recommendations:

- **Summary of recommendation categories**. The Overview displays a summary of all health checks recommendations grouped by categories of health check recommendations. This option allows you to export this summarized information.

- **Details for all recommendations**. By using this option, you can export a report that includes all available health check recommendations in detail.
- **Details for selected categories**. With this option, you can select those categories of health check recommendations you want to export. For example, you can choose to have a report for all databases that do not have a backup or for all the instances that are not monitored.

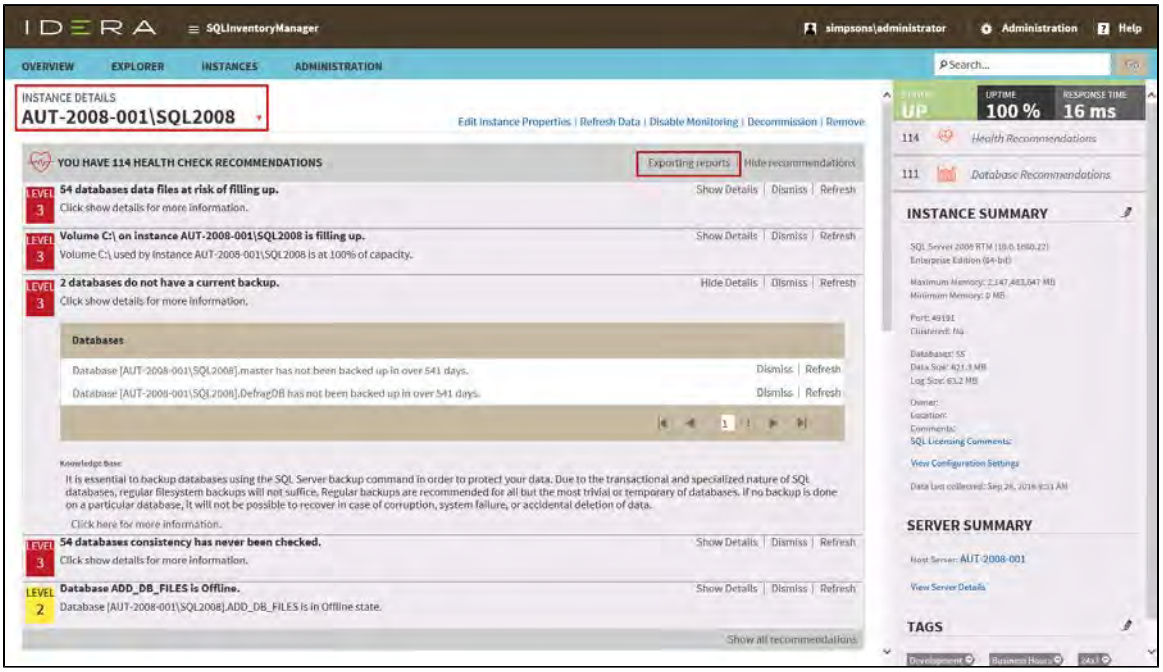


Choose the format for exporting, IDERA SQL Inventory Manager allows you export as **PDF**, **XLS**

, or **XML**. Click **Export.**

Exporting from an Instance Details view

IDERA SQL Inventory Manager allows you to view the specific Health Check Recommendations of any registered SQL Server instance. You can export this information from the respective Instance Details view by clicking **Exporting reports** on the action items options from the Health Check Recommendations section.



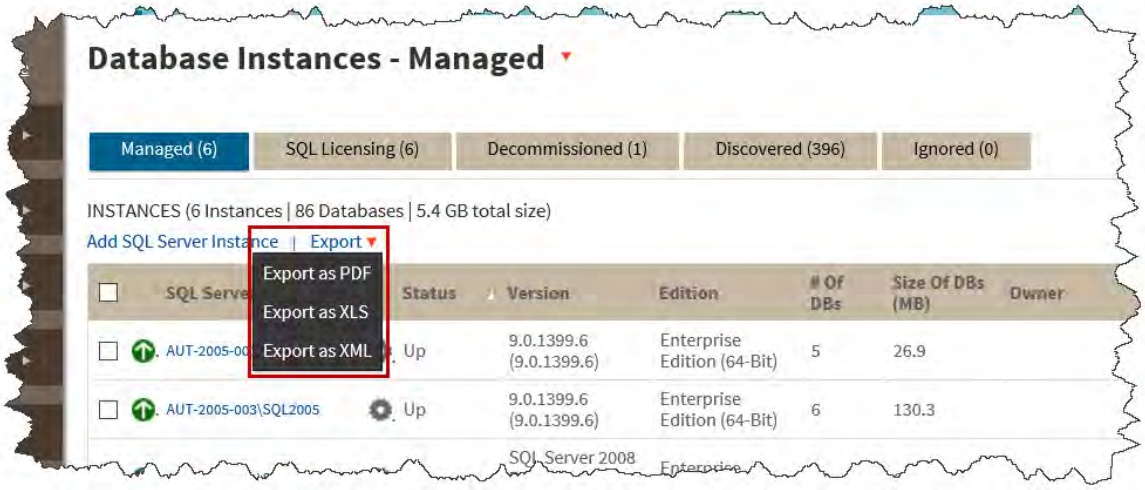
When you access this option, you have the following three choices for exporting recommendations:

- **Summary of recommendation categories**. The Overview displays a summary of all health checks recommendations grouped by categories of health check recommendations. This option allows you to export this summarized information.
- **Details for all recommendations**. By using this option, you can export a report that includes all available health check recommendations in detail.
- **Details for selected categories**. With this option, you can select those categories of health check recommendations you want to export. For example, you can choose to have a report for all databases that do not have a backup or for all the instances that are not monitored.

Choose the format for exporting. IDERA SQL Inventory Manager allows you export as **PDF**, **XLS**, or **XML**. Click **Export**.

Exporting Managed Instances

On the top section of the **Managed** Instances view, you can find the **Export** option which allows you to choose your preferred format for exporting the information available on this view. You can export as a **PDF**, **XLS**, or **XML** file. Your exported reports include the filters you have applied to this view.



Exporting SQL Licensing view

You can export the information available on the **SQL Licensing** view so you can better assess your SQL Server license requirements. Click **Export** on the action items options of this view and choose your preferred format for exporting: **PDF**, **XLS** or **XML**. If you applied filters on this view, the exported report takes into account these filters.

Exporting Decommissioned view

You can export the information available on the **Decommissioned** view so you can view a list of decommissioned instances. Click **Export** on the action items options of this view and choose your preferred format for exporting: **PDF**, **XLS** or **XML**. If you applied filters on this view, the exported report takes into account these filters.

Exporting Discovered Instances

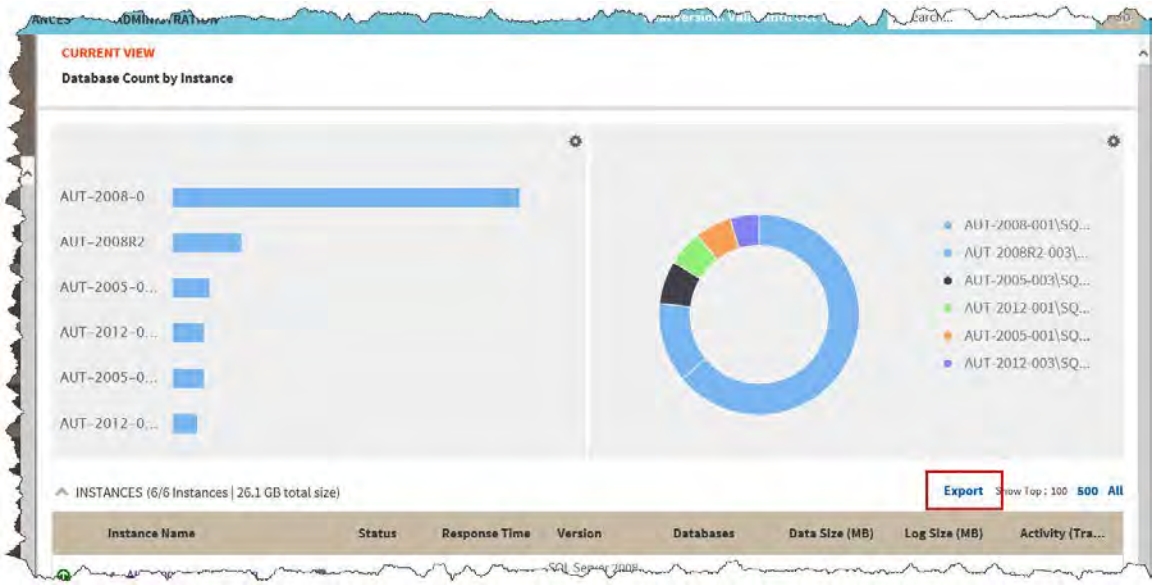
If you want to export the information displayed on the **Discovered** Instances view, go to the **Export** option, located on the top right section of this view, and select your preferred format (**PDF**, **XLS**, or **XML**) for exporting. IDERA SQL Inventory Manager exports reports according to your selected filters on this view.

Exporting Ignored Instances

You can export the information available on the **Ignored** instances view, just go to the **Export** option, located on the top right section of this view, and select your preferred format for exporting (**PDF**, **XLS**, or **XML**). If you applied filters on this view, the exported report takes into account these filters.

Exporting reports from the Explorer view

You can export the information available on the **Explorer** view, by clicking the **Export** option on the right-bottom side of your graph and selecting your preferred format for exporting: **PDF**, **XLS**, or **XML**. These reports enable you to get important information according to the filters you have selected on the Explorer view. Get reports for instances per location, databases per owner, etc.



IDERA SQL Inventory Manager lets you discover and visualize your SQL Server environment. ***Learn more > >***

IDERA Website	Products	Purchase	Support	Community	About Us	Resources	Legal

About data schedule and retention schedules

To monitor your SQL Server instances, IDERA SQL Inventory Manager collects data on availability, responsiveness, configuration, performance, and capacity data on a specific schedule and maintains a history of the collected values for a certain amount of time.

The following table shows you the frequency with which IDERA SQL Inventory Manager collects information and the amount of time that this information is retained.

Data Category	Schedule	Data Retention	Alerts	Health Checks
Discover Instances	Daily	N/A	No	No
Discover Topology (databases, data files, servers, drives)	Sub job - runs at beginning of capacity and configuration jobs	N/A	No	No
Availability & Responsiveness at instance level	Every 30 seconds	Kept for 24 hours	Yes	Yes
Availability & Responsiveness at database level	Every 5 minutes	Kept every 5 minutes for 24 hours	Yes	Yes
Configuration data	Daily	Current Values	No	Yes
Capacity Data: Disk total space, disk free space, database data size, database log size, data file size, log file size	Hourly	Current Values	Yes	Yes

Refresh collection

IDERA SQL Inventory Manager allows you to refresh these metrics at any time from the instance view. For more information about this option, please refer to Viewing instance information.

IDERA SQL Inventory Manager lets you discover and visualize your SQL Server environment. Learn more > >

IDERA Website	Products	Purchase	Support	Community	About Us	Resources	Legal

Troubleshooting guide

The IDERA SQL Inventory Manager Troubleshooting guide provides topics that can help you resolve an issue quickly. If you cannot resolve this issue on your own, please contact IDERA Technical Support.

IDERA SQL Inventory Manager lets you discover and visualize your SQL Server environment. Learn more > >

IDERA Website	Products	Purchase	Support	Community	About Us	Resources	Legal

How do you gather an install log file?

If you are encountering difficulties installing IDERA SQL Inventory Manager, our customer support team may ask you to provide an install log. You can provide this log by typing in a command window the following:

```
msiexec /i <msi file> /l*v install.log
```

Please take into account that the resulting **install.log** file will include machine name information; and therefore it is better to email it than to attach it to a public forum.

IDERA SQL Inventory Manager lets you discover and visualize your SQL Server environment. Learn more > >

IDERA Website	Products	Purchase	Support	Community	About Us	Resources	Legal

How to enable/disable security

IDERA SQL Inventory Manager supports authentication between internal services, this feature is disabled by default. If you have installed IDERA SQL Inventory Manager on the default path, you can enable/disable security, making the following changes on two locations:

1. Go to C:\Program Files\IDERA\SQL\Inventory Manager\WebApplication\idera-main\conf, open **web.properties**, and then change `enable-authentication-for-rest=false` to `true`.
2. Go to C:\Program Files\IDERA\SQL\Core, open **IderaCoreServices.exe** and change `EnableSecurity` to `true`.

IDERA SQL Inventory Manager lets you discover and visualize your SQL Server environment. Learn more > >

IDERA Website	Products	Purchase	Support	Community	About Us	Resources	Legal

SQL Inventory Manager and lsass.exe process

Essentially due to the very high number of WMI calls IDERA SQL Inventory Manager makes from the service, the lsass.exe process can grow until it cannot grow any more. The problem only occurs on a Windows 2008 server that has not been fully patched. For more information go to http://support.microsoft.com/kb/971265/EN-US.

IDERA SQL Inventory Manager lets you discover and visualize your SQL Server environment. Learn more > >

IDERA Website	Products	Purchase	Support	Community	About Us	Resources	Legal

Troubleshooting WMI issues

IDERA SQL Inventory Manager uses the Windows Management Instrumentation (WMI) interface to collect information about the servers that make up your environment.

Under certain circumstances, IDERA SQL Inventory Manager is unable to access the WMI counters. When the WMI counters are unavailable, IDERA SQL Inventory Manager cannot display performance information from the servers.

When IDERA SQL Inventory Manager is unable to collect WMI information, it generates an alert. The alert includes an error message that indicates the underlying problem.

IDERA SQL Inventory Manager may be unable to retrieve the WMI information for one or more of the following reasons:

- The WMI counters are disabled.
- The performance library is overloaded.
- The WMI repository is corrupt.

If IDERA SQL Inventory Manager is unable to retrieve the WMI information from one or more servers, you should locate and correct the issue that prevents IDERA SQL Inventory Manager from collecting the WMI information.

When you troubleshoot WMI availability, there are several procedures that IDERA recommends to correct the issue. You should perform the following checks in the specified order. If you encounter an error when you perform any of these procedures, please contact IDERA Technical Support for additional assistance.

- Verify that the WMI system is available.
- Verify that the performance counter class is accessible.
- Verify that the performance counter instance is accessible.
- Verify that the Windows performance counters are enabled on the server.
- Change the WMI counter timeout.
- Resynchronize the WMI Performance Library.
- Update the WMI Registry and register the WMI DLL files.
- Salvage the WMI Repository.
- Rebuild the list of WMI counters.
- Assign additional memory to the WMI pool.

IDERA SQL Inventory Manager lets you discover and visualize your SQL Server environment. Learn more > >

IDERA Website	Products	Purchase	Support	Community	About Us	Resources	Legal

Increase memory available to SQL Inventory Manager

To increase the memory available to IDERA SQL Inventory Manager, you can use the following options:

Approach 1

1. Access the server.conf file, the file is located in your installation path: C:\Program Files\Idera\SQL\Inventory Manager\WebApplication\idera-main\conf\server.conf
2. Edit server.conf as follows:
   - Change *compute.maxmemory=false* to *true*
   - Change *maxmemory* to new value in MB. For example: *maxmemory=1024* to *1536* or *2048*
3. Save server.conf file

Approach 2

Follow these steps:

1. Go to your Windows Services.
2. Right click the **IDERA web application service** and select **Properties**.
3. On the **General** tab, click **Stop** to stop the service.
4. Add -Xms256m -Xmx1536m in **Start parameters**.
5. Restart the services by clicking **Start**.
6. Click **OK**.

IDERA SQL Inventory Manager lets you discover and visualize your SQL Server environment. Learn more > >

IDERA Website	Products	Purchase	Support	Community	About Us	Resources	Legal

WMI may not discover all SQL Server Instances

Take into account that when executing WMI scans on large IP ranges, a No buffer Available Space exception may occur. This exception occurs due to the availability of TCP ports.
The Dynamic Port Range is used by the client computer to connect to Well Known Port Services or Root Services. This Dynamic Port Range depends on the version of Operating Systems.

- **Port Range: 1024-65535** - used by the computers running Windows XP, Windows 2000 Professional, and Windows Server 2003.
- **Port Range: 49152-65535** - used by computers running Windows Vista, Windows 7 and Windows Server 2008. By default, a fresh Windows Server 2008 installation will have this Dynamic Port Range configured.

View the port range

To see the port range you can use the following commands:

- *NetSh INT IPV4 Show DynamicPort TCP*
- *NetSh INT IPV4 Show DynamicPort UDP*

Change the port range

To set or change the Dynamic Port Range use the following commands:

- *NetSh INT IPV4 SET DynamicPort TCP Start=1024 num=65535*
- *NetSh INT IPV4 SET DynamicPort UDP Start=1024 num=65535*

When you find a No Buffer Available Space exception, follow these steps:

1. Check the Dynamic Port Range using the above commands.
2. If the number of ports is less than the given IP range, increase the port range using the above commands.
3. Run the scan again.

Other ways to increase the range of ephemeral ports

Windows 2003

Increase the range of ephemeral ports by setting the MaxUserPort TCP/IP parameter to a higher value like 32768 (setting the port range from 1024 to 32768).

Find this option on the windows registry key HKLM\SYSTEM\CurrentControlSet\Services\Tcpip\Parameters as a DWORD value.

Windows 2008 R2

Increase the range of ephemeral ports by setting the Dynamic Port Range to a higher value through the command:

- *netsh int ipv4 set dynamicportrange tcp start=32767 num=65535*

This command will set the port range from 32768 to 65535.

Redhat LInux 5

Increase the range of ephemeral ports by setting ip_local_port_range kernel value on /proc/sys/net/ipv4/ip_local_port_range. Use the command:

- *echo "32768 65535" > /proc/sys/net/ipv4/ip_local_port_range*

This will set the port range from 32768 to 65535.

IDERA SQL Inventory Manager lets you discover and visualize your SQL Server environment. Learn more > >

IDERA Website	Products	Purchase	Support	Community	About Us	Resources	Legal

Auto-refresh settings

By default, IDERA SQL Inventory Manager performs an auto refresh process every five minutes (300 seconds). You can edit this setting following these steps.

- Go to <InstallDir>\Inventory Manager\WebApplication\idera-main\conf\web.properties
- In the web.properties files add the following property: *AutoRefreshInterval=<time>*

Where <*time*> is the time interval in seconds you want to specify for auto refresh. You can define this value from 60 seconds (1minute) to 600 seconds (10 minutes).

⚠ Take into account the following considerations:

- In order for the changes to take effect, you need to restart the Inventory Manager Web service after setting the Autorefresh configurations value.
- If you introduce a value that is outside the limits or in a different format, it will take 60 seconds for values under the lower limit, 600 seconds for values over the higher limit, and 300 seconds for values in the wrong format.
- Adjusting the auto-refresh interval may impact performance

IDERA SQL Inventory Manager lets you discover and visualize your SQL Server environment. Learn more > >

IDERA Website	Products	Purchase	Support	Community	About Us	Resources	Legal