

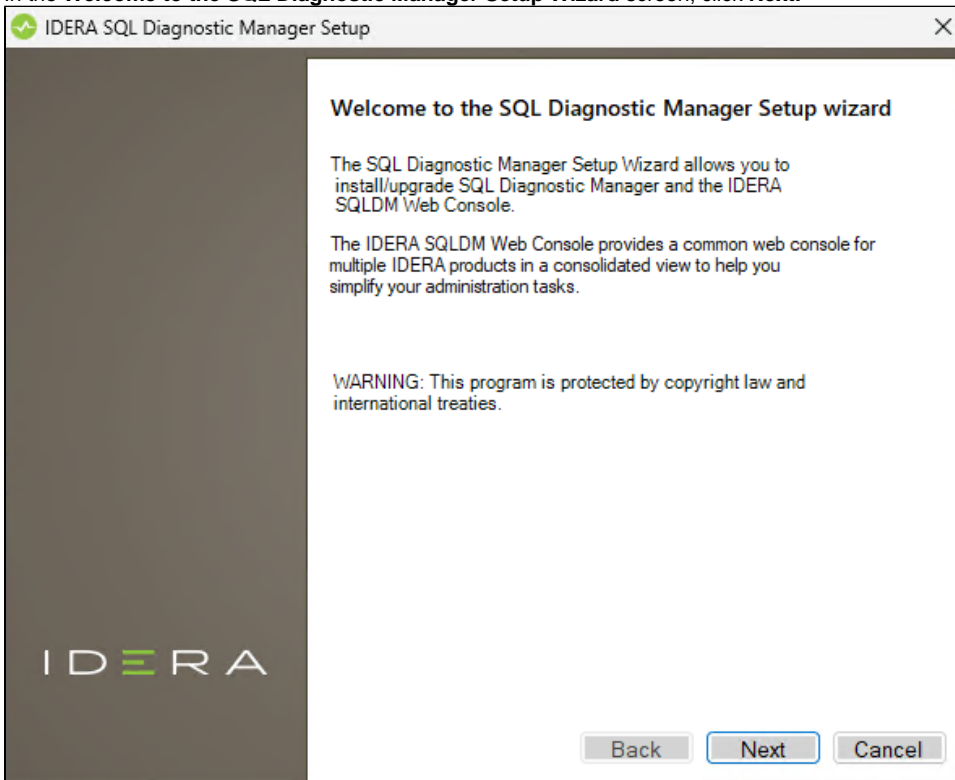
Deploy SQL Diagnostic Manager in a high availability group

The following steps guide you through the installation and deployment of SQL Diagnostic Manager and the IDERA Dashboard while hosting the repository databases in an AlwaysOn environment.

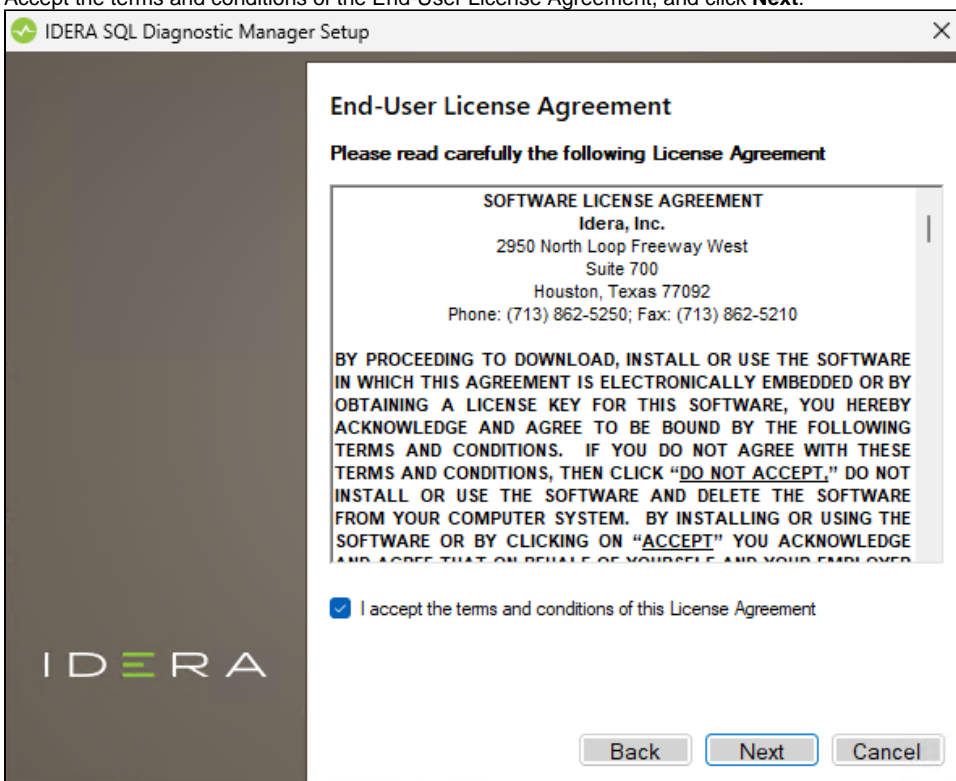
- Install SQL Diagnostic Manager in an AlwaysOn Environment
- Configure the Databases for High Availability
- Validate SQL Diagnostic Manager Configuration

Install SQL Diagnostic Manager in an AlwaysOn Environment

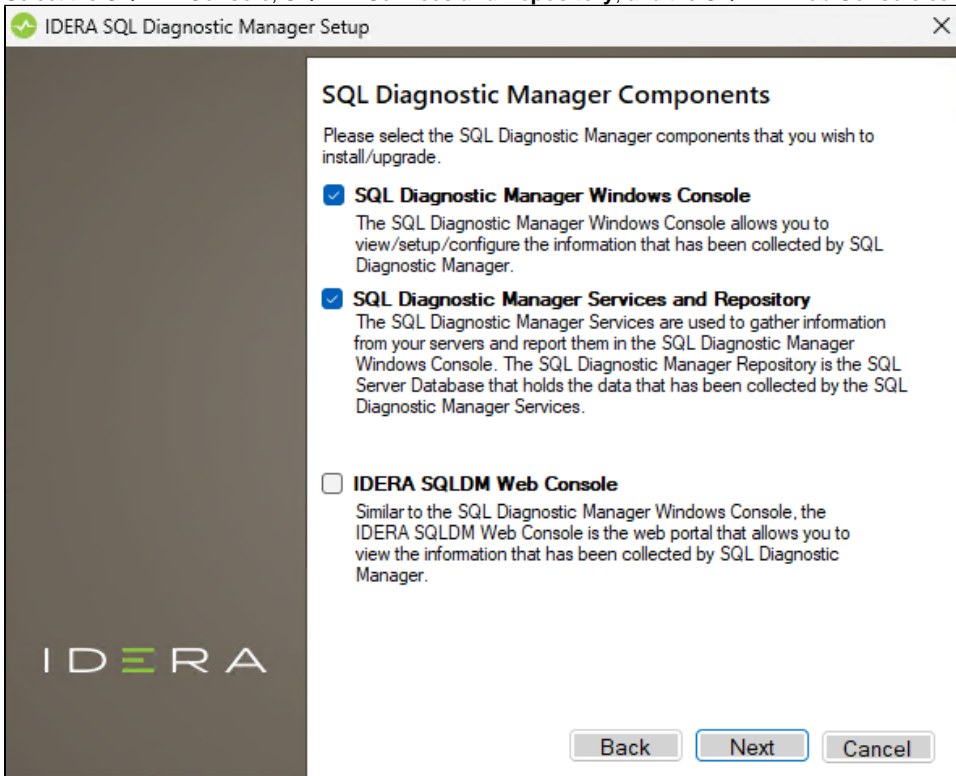
1. In the **IDERA SQL Diagnostic Manager Quick Start** window, click **Install SQL Diagnostic Manager**.
2. In the **Welcome to the SQL Diagnostic Manager Setup Wizard** screen, click **Next**.



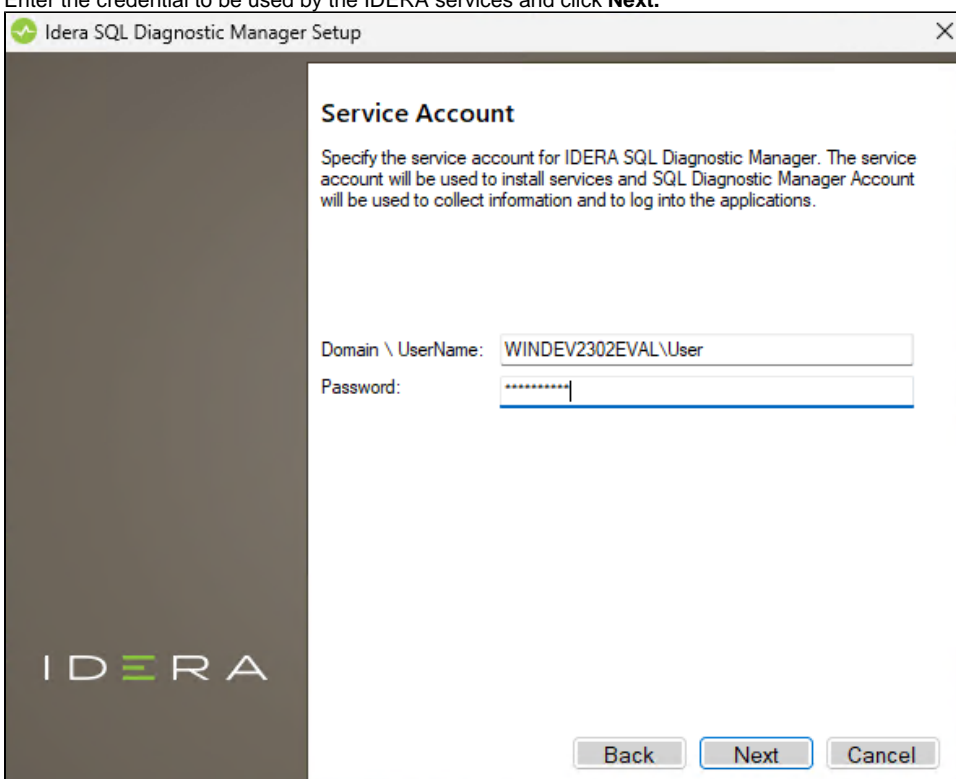
3. Accept the terms and conditions of the End-User License Agreement, and click **Next**.



4. Select the **SQLDM Console**, **SQLDM Services and Repository**, and the **SQLDM Web Console** components and click **Next**.



5. Enter the credential to be used by the IDERA services and click **Next**.



The screenshot shows the 'Service Account' configuration window in the IDERA SQL Diagnostic Manager Setup. The window has a title bar with the IDERA logo and a close button. The main content area is titled 'Service Account' and contains a description: 'Specify the service account for IDERA SQL Diagnostic Manager. The service account will be used to install services and SQL Diagnostic Manager Account will be used to collect information and to log into the applications.' Below this, there are two input fields: 'Domain \ UserName:' with the value 'WINDEV2302EVAL\User' and 'Password:' with a masked password '*****'. At the bottom, there are three buttons: 'Back', 'Next' (highlighted with a blue border), and 'Cancel'. The IDERA logo is also visible in the bottom left corner of the window.

Service Account

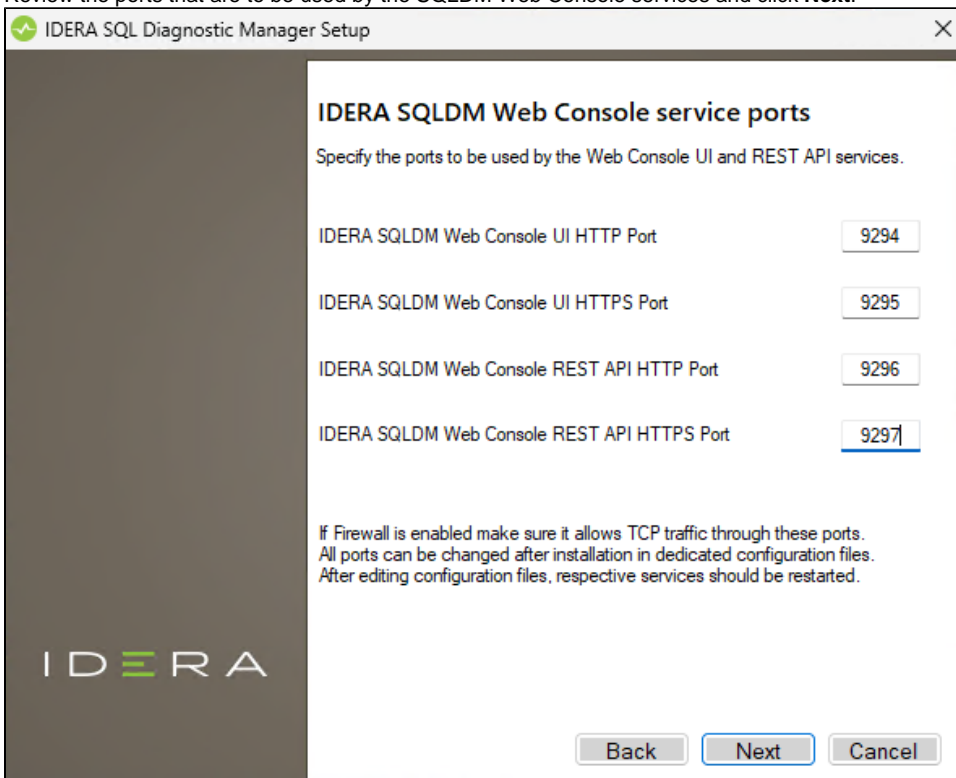
Specify the service account for IDERA SQL Diagnostic Manager. The service account will be used to install services and SQL Diagnostic Manager Account will be used to collect information and to log into the applications.

Domain \ UserName: WINDEV2302EVAL\User

Password: *****

Back Next Cancel

6. Review the ports that are to be used by the SQLDM Web Console services and click **Next**.



The screenshot shows the 'IDERA SQLDM Web Console service ports' configuration window in the IDERA SQL Diagnostic Manager Setup. The window has a title bar with the IDERA logo and a close button. The main content area is titled 'IDERA SQLDM Web Console service ports' and contains a description: 'Specify the ports to be used by the Web Console UI and REST API services.' Below this, there are four input fields for port numbers: 'IDERA SQLDM Web Console UI HTTP Port' (9294), 'IDERA SQLDM Web Console UI HTTPS Port' (9295), 'IDERA SQLDM Web Console REST API HTTP Port' (9296), and 'IDERA SQLDM Web Console REST API HTTPS Port' (9297). At the bottom, there is a note: 'If Firewall is enabled make sure it allows TCP traffic through these ports. All ports can be changed after installation in dedicated configuration files. After editing configuration files, respective services should be restarted.' Below the note, there are three buttons: 'Back', 'Next' (highlighted with a blue border), and 'Cancel'. The IDERA logo is also visible in the bottom left corner of the window.

IDERA SQLDM Web Console service ports

Specify the ports to be used by the Web Console UI and REST API services.

IDERA SQLDM Web Console UI HTTP Port 9294

IDERA SQLDM Web Console UI HTTPS Port 9295

IDERA SQLDM Web Console REST API HTTP Port 9296

IDERA SQLDM Web Console REST API HTTPS Port 9297

If Firewall is enabled make sure it allows TCP traffic through these ports.
All ports can be changed after installation in dedicated configuration files.
After editing configuration files, respective services should be restarted.

Back Next Cancel

7. Specify the SQL Server instance and database name for the SQL Diagnostic Manager Repository and click **Next**.

SQL Diagnostic Manager Repository

Create SQL Diagnostic Manager Repository

SQL Server Instance:

Database Name:

Connection Credentials: By default, the setup program uses the Windows credentials you provided to create the repository.

☐ Use Microsoft SQL Server Authentication

If you want the SQL Diagnostic Manager Management Service to use SQL Server authentication to connect to the SQLDM Repository, select the following check box:

☐ Use Microsoft SQL Server Authentication

IDERA

8. In case you want to monitor more than one SQL Diagnostic Manager installation, check the **Use Index Database** checkbox, specify the SQL Server instance and database name, set the credential configuration of your preference, and click **Next**. Otherwise, skip this step by clicking **Next**.

SQL Diagnostic Manager Index Database

Either a New or Existing Index database can be created or used.

☐ Use Index Database

Index SQL Server Instance:

Index Database Name:

Connection Credentials: By default, the setup program uses the Windows credentials you provided to create the index.

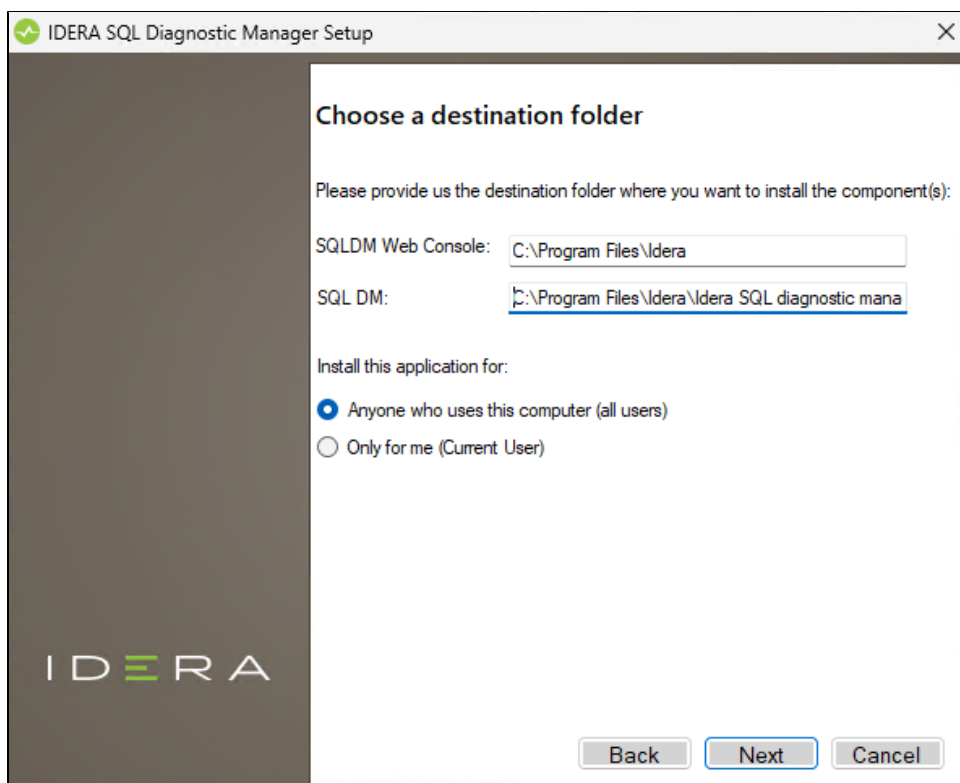
☐ Use Microsoft SQL Server Authentication

If you want the SQL Diagnostic Manager Management Service to use SQL Server authentication to connect to the SQLDM Index database, select the following check box:

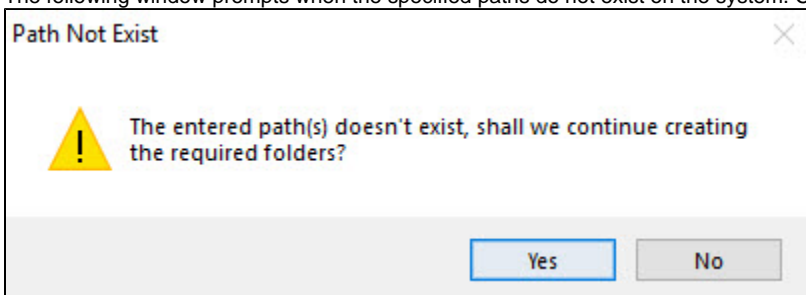
☐ Use Microsoft SQL Server Authentication

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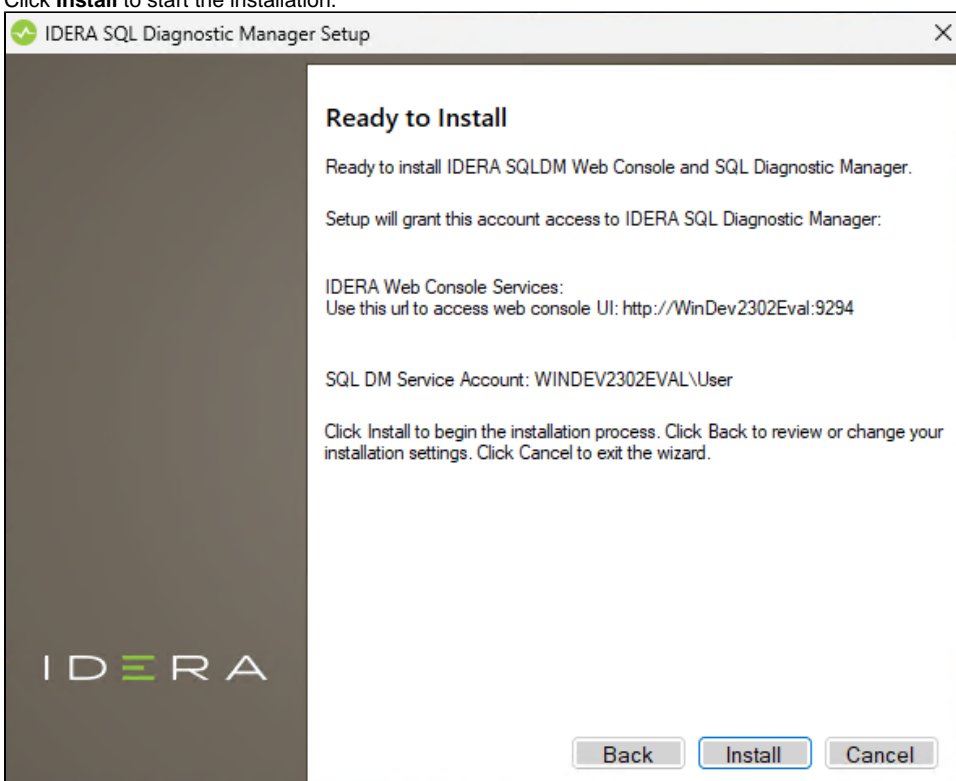
9. Provide the installation directory for the SQL DM Web Console and SQL Diagnostic Manager and click **Next**.



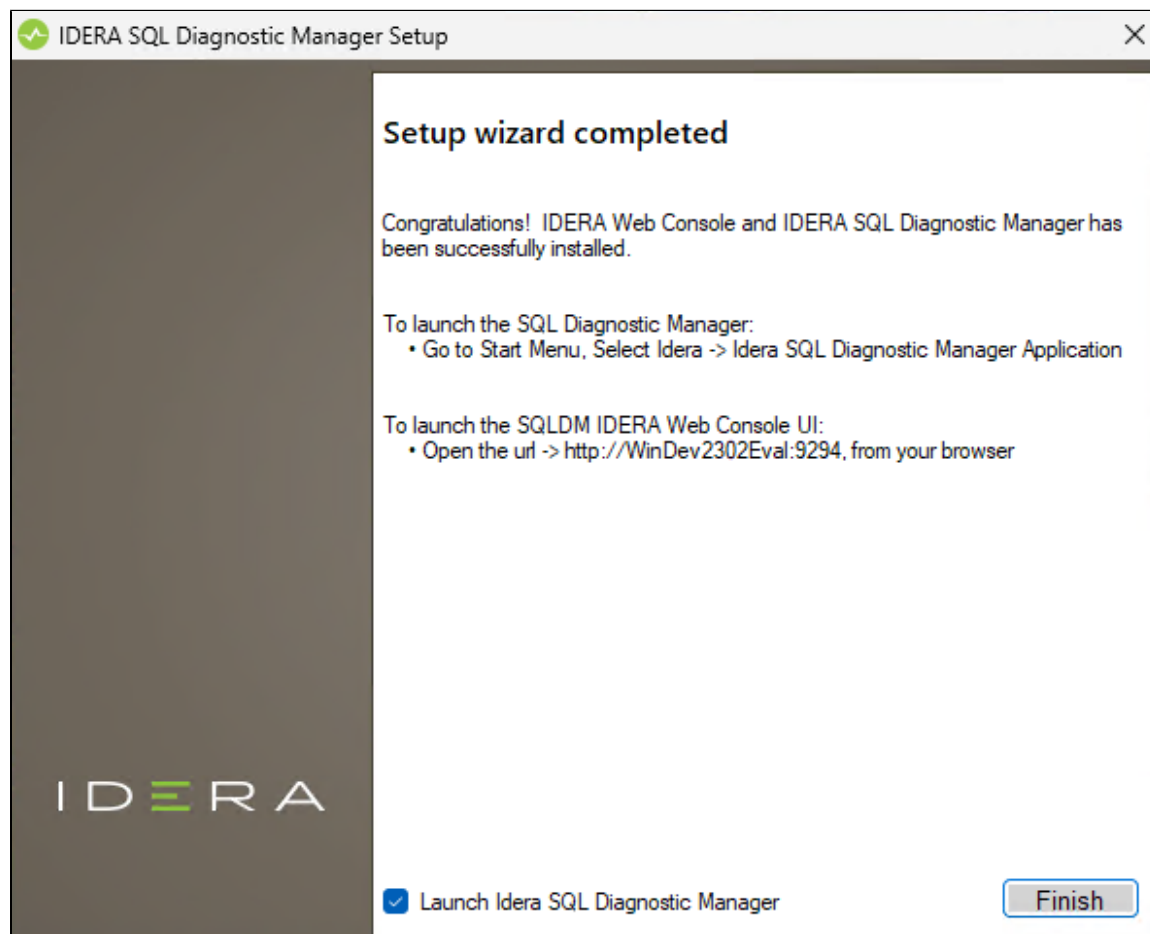
10. The following window prompts when the specified paths do not exist on the system. Click **Yes** to proceed.



11. Click **Install** to start the installation.

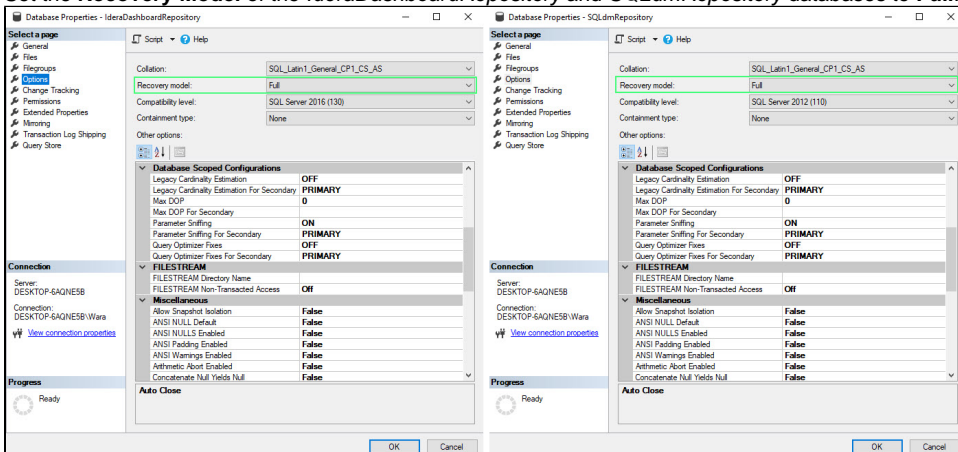


12. After the installation is completed, disable the **Launch IDERA SQL Diagnostic Manager** checkbox and click **Finish**.

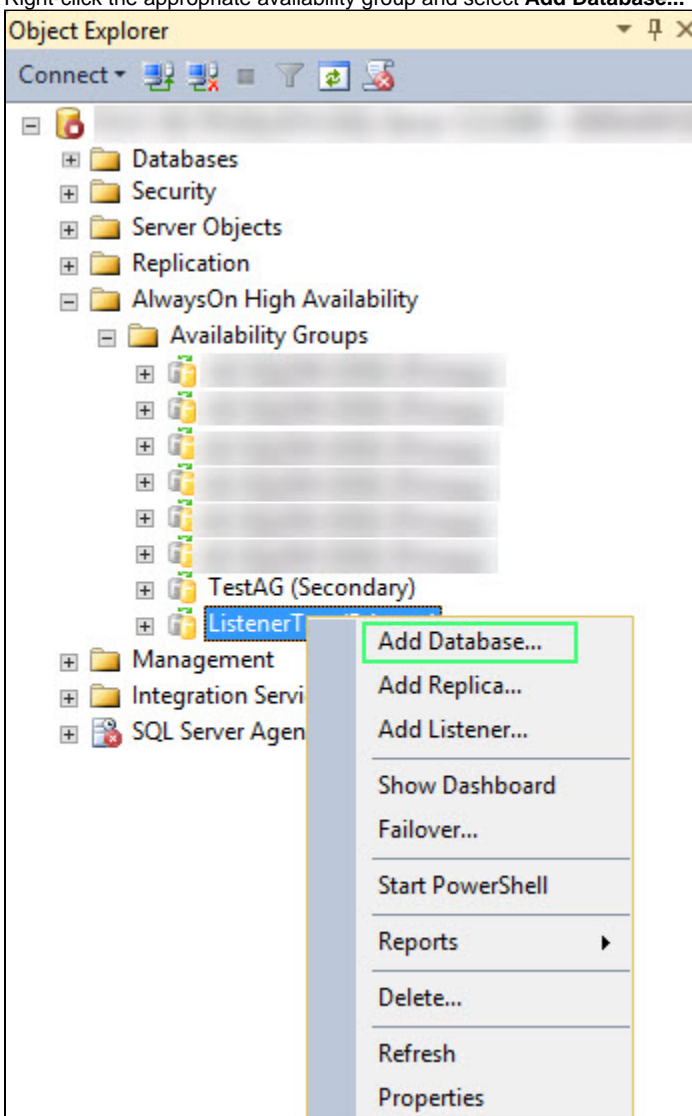


Configure the Databases for High Availability

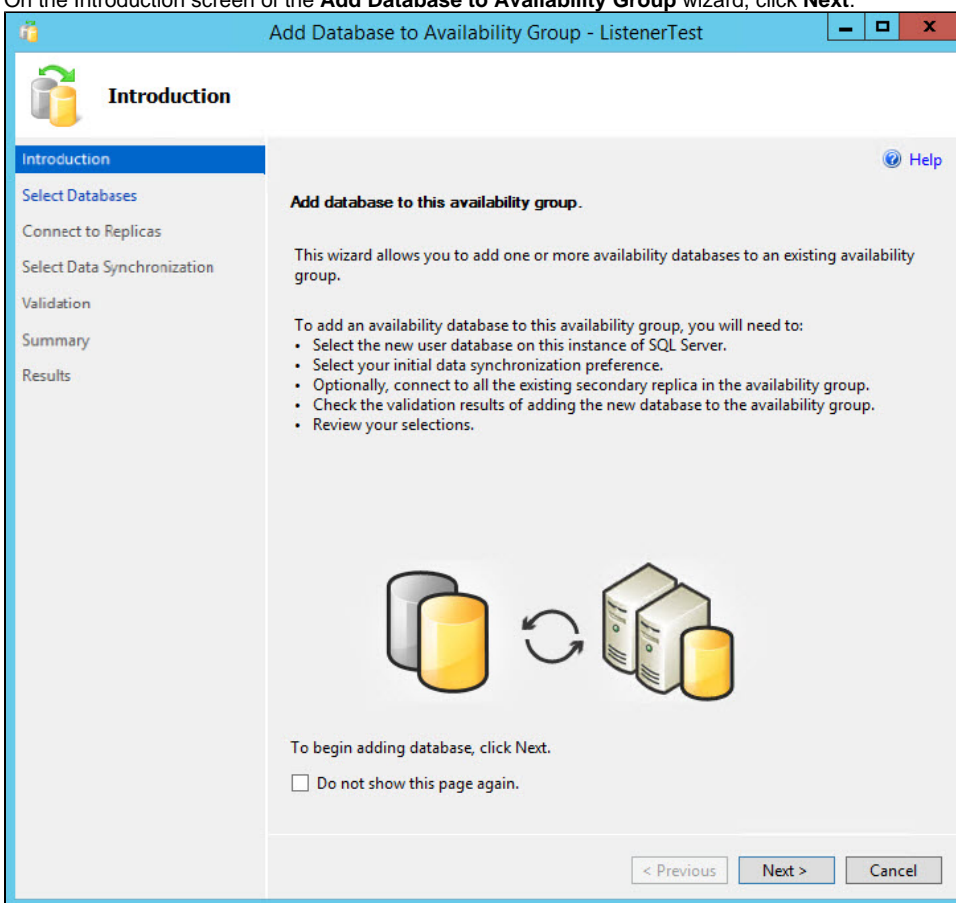
1. Open *SQL Server Management Studio (SSMS)* on the primary node and connect the listener name.
2. Set the **Recovery Model** of the *IderaDashboardRepository* and *SQLdmRepository* databases to **Full**.



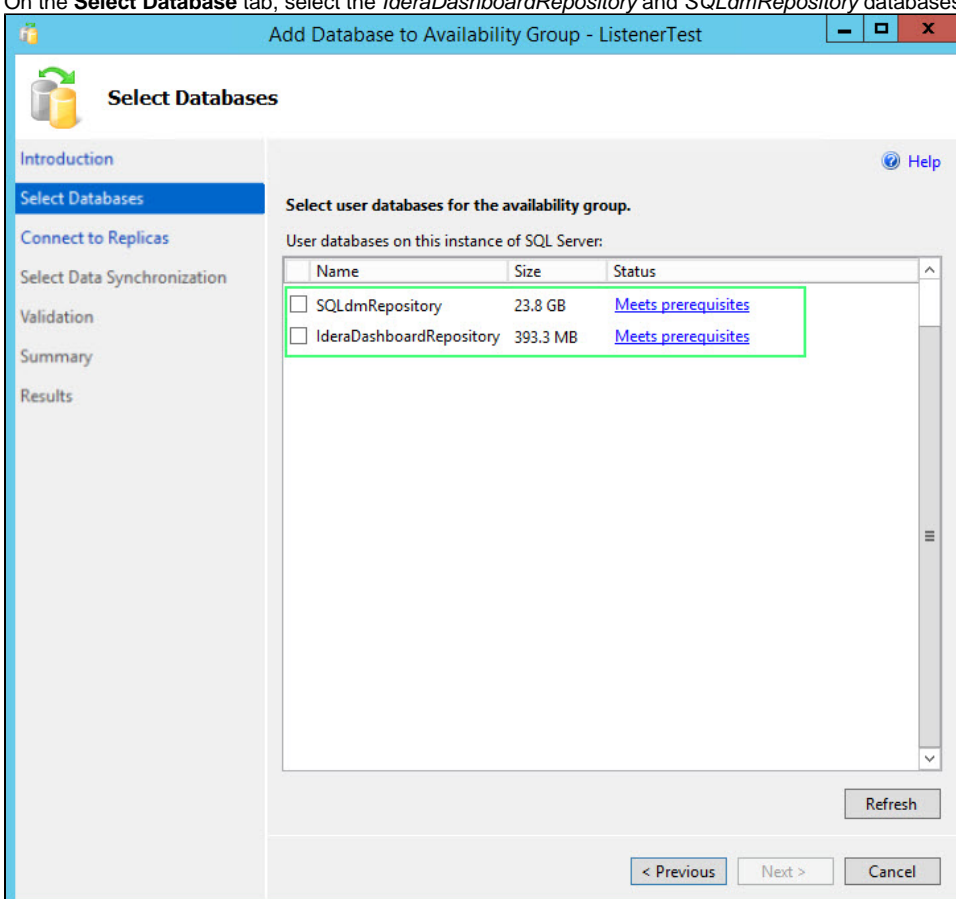
3. Perform a full backup of the *IderaDashboardRepository* and *SQLdmRepository* databases.
4. Right-click the appropriate availability group and select **Add Database...**



- On the Introduction screen of the **Add Database to Availability Group** wizard, click **Next**.

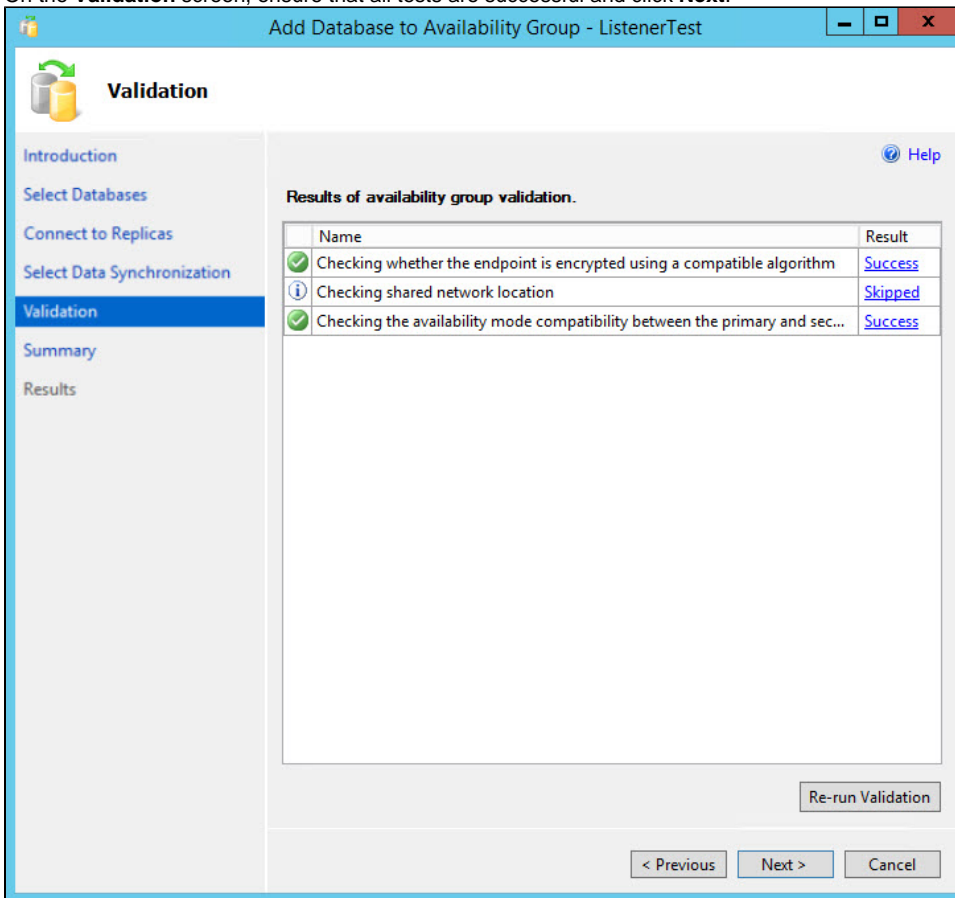


6. On the **Select Database** tab, select the *IderaDashboardRepository* and *SQLdmRepository* databases, and click **Next**.



7. On the **Connect to Replicas** tab, connect to the other replica(s) in the availability groups by clicking **Connect...** next to the Server Instances, and click **Next**.
8. On the **Select Data Synchronization** tab, select one of the following options for your environment, and click **Next**.
- Automatic Seeding
 - Full database and log backup
 - Join only
 - Skip initial data synchronization

9. On the **Validation** screen, ensure that all tests are successful and click **Next**.



Add Database to Availability Group - ListenerTest

Validation

Introduction
Select Databases
Connect to Replicas
Select Data Synchronization
Validation
Summary
Results

Help

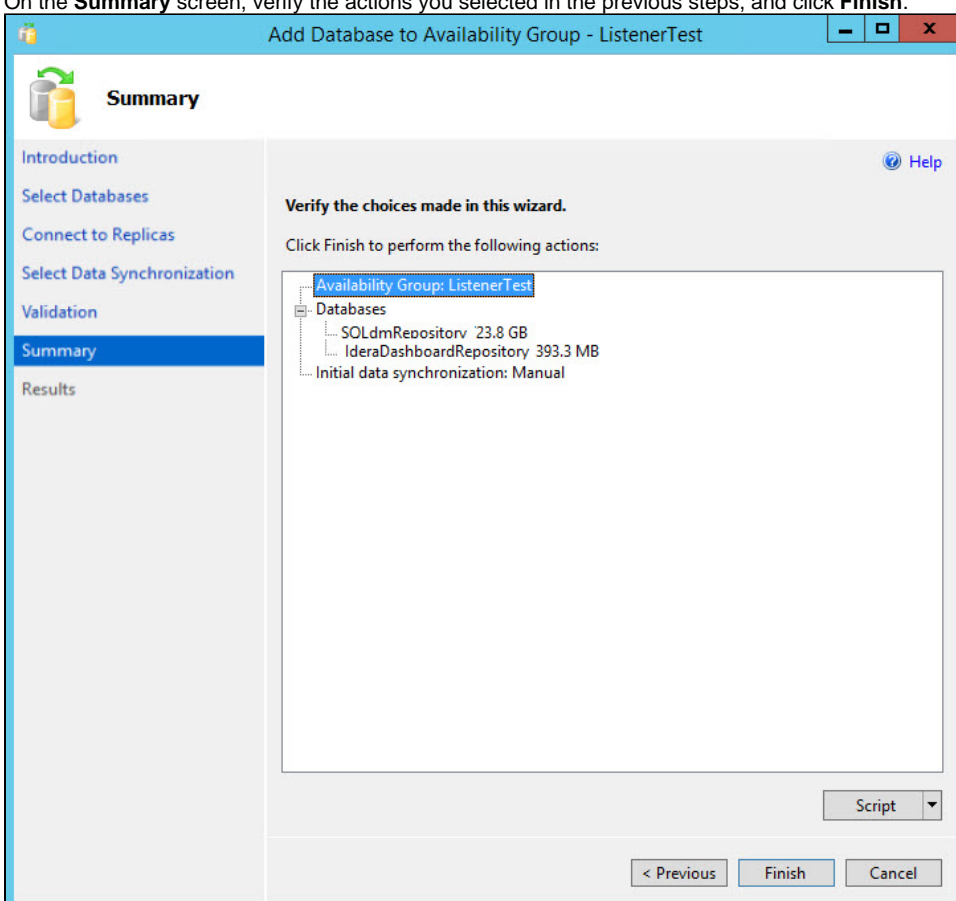
Results of availability group validation.

Name	Result
Checking whether the endpoint is encrypted using a compatible algorithm	Success
Checking shared network location	Skipped
Checking the availability mode compatibility between the primary and sec...	Success

Re-run Validation

< Previous Next > Cancel

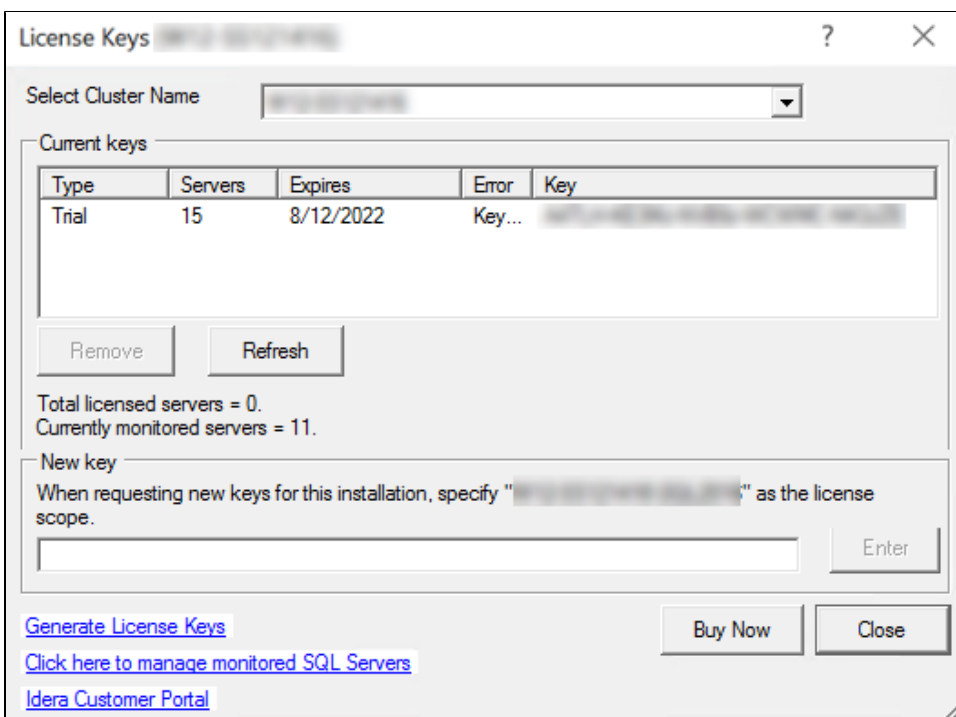
10. On the **Summary** screen, verify the actions you selected in the previous steps, and click **Finish**.



11. The **Results** screen displays the summary of the performed actions and their results, click **Close** to exit the wizard.
12. In SSMS connect to the secondary replica(s) and ensure that the databases were added successfully.
13. On the server where SQL Diagnostic Manager is installed, restart the services listed below:
 - a. SQLdm Collection Service
 - b. SQLdm Management Service
 - c. SQLdm Predictive Analytics Service
 - d. SQLdm Rest Service

Validate SQL Diagnostic Manager Configuration

1. To validate the SQL Diagnostic Manager configuration, launch the Desktop Client.
2. Go to **? > Manage License**. In the New Key section, you should see the name of the listener and the port instead of the primary node name.



If you see the listener and port as in the image above, you have successfully configured the repository databases in an availability group.



Consider that the **Select Cluster Name** option is a field only for a Scale-out configuration.