# Deploy SQL Diagnostic Manager in a high availability group

The following steps guide you through the installation and deployment of SQL Diagnostic Manages 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.



<ol><li>Enter the credential to be used by the IDERA services and click N</li></ol>	ext.
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📀 Idera SQL Diagnostic Manager	Setup		×
	Service Account Specify the service account will be used to will be used to collect i	nt count for IDERA SQL Diagnostic Manager. The service p install services and SQL Diagnostic Manager Account nformation and to log into the applications.	
	Domain∖UserName: Password:	WINDEV2302EVAL\User	
IDERA		Back Next Cancel	

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

IDERA SQL Diagnostic Manag	er Setup	×
	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 po All ports can be changed after installation in dedicated configuration After editing configuration files, respective services should be restart	orts. files. ed.
IDERA		
	Back Next	Cancel

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

📀 IDERA SQL Diagnostic Manage	er Setup			×
	SQL Diagnostic Create SQL Diagnostic SQL Server Instance:	C Manager Repo Manager Repository (local)	ository	
	Database Name:	SQLdmRepository		
	Connection Credentials credentials you provide	s: By default, the setup p ed to create the repositor	program uses the Windows y.	
	Use Microsoft SQL	Server Authentication	Change	
	If you want the SQL Di SQL Server authentica the following check bo	iagnostic Manager Mana tion to connect to the Si x:	agement Service to use QLDM Repository, select	
	🗌 Use Microsoft SQL	Server Authentication	Change	
IDERA				
		Back	Next Can	icel

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**.

📀 IDERA SQL Diagnostic Manage	r Setup	×
	SQL Diagnostic Ma Either a New or Existing Index	nager Index Database « database can be created or used.
	Index SQL Server Instance:	(local)
	Index Database Name:	DMSOClusterDatabase
	Connection Credentials: By o credentials you provided to co Use Microsoft SQL Serve If you want the SQL Diagnost SQL Server authentication to select the following check bo Use Microsoft SQL Serve	lefault, the setup program uses the Windows reate the index. Authentication Change tic Manager Management Service to use connect to the SQLDM Index database, x: ar Authentication Change
		Back Next Cancel

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

📀 IDERA SQL Diagnostic Manage	er Setup		×
	Choose a destir	nation folder	
	Please provide us the d	estination folder where you	want to install the component(s):
	SQLDM Web Console:	C:\Program Files\Idera	
	SQL DM:	C:\Program Files\Idera\I	dera SQL diagnostic mana
	Install this application fo	r:	
	<ul> <li>Anyone who uses the</li> </ul>	nis computer <mark>(</mark> all users)	
	Only for me (Current	: User)	
IDERA			
		Back	Next Cancel

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

Path Not I	Exist	×
	The entered path(s) doesn't exist, shall we continue creating the required folders?	5
	Yes No	

#### 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...



#### 5. On the Introduction screen of the Add Database to Availability Group wizard, click Next.

<b>1</b>	Add Database to Availability Group - ListenerTest
Introduction	
Introduction	Help
Select Databases	Add database to this availability group.
Connect to Replicas Select Data Synchronization Validation Summary Results	<ul> <li>This wizard allows you to add one or more availability databases to an existing availability group.</li> <li>To add an availability database to this availability group, you will need to: <ul> <li>Select the new user database on this instance of SQL Server.</li> <li>Select your initial data synchronization preference.</li> <li>Optionally, connect to all the existing secondary replica in the availability group.</li> <li>Check the validation results of adding the new database to the availability group.</li> <li>Review your selections.</li> </ul> </li> </ul>
	To begin adding database, click Next.
	< Previous Next > Cancel

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

- n a a a a a a a a a a a a a a a a a a	Add Database to Availabili	ty Group -	ListenerTest	_ <b>_</b> ×
Select Database	25			
Introduction Select Databases Connect to Replicas	Select user databases for the	availability g	roup.	@ Help
Select Data Synchronization	Name	Size	Status	^
Validation	SQLdmRepository	23.8 GB 393.3 MB	<u>Meets prerequisites</u> <u>Meets prerequisites</u>	
Results				
				=
				~
				Refresh
			< Previous Next	Cancel

- 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.
  - a. Automatic Seedingb. Full database and log backup

  - c. Join only
  - d. Skip initial data synchronization

<ol><li>On the Validation screen, ensure that all tests are successful and click Nex</li></ol>
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- <b>1</b>	Add Database to Availability Group - ListenerTest	D X
Validation		
Introduction		🕡 Help
Select Databases	Results of availability group validation.	
Connect to Replicas	Name	Result
Select Data Synchronization	Checking whether the endpoint is encrypted using a compatible algorithm	Success
Select but synchronization	(i) Checking shared network location	Skipped
Validation	Checking the availability mode compatibility between the primary and sec	Success
Summary		
Results		
	Re-run	Validation
	< Previous Next >	Cancel

10. On the <b>Summary</b> screen, ver	ify the actions you selected in the previous steps, and clic	k Finish.
Ä A	dd Database to Availability Group - ListenerTest	_ <b>D</b> X
Summary		
Introduction		🕐 Help
Select Databases	Verify the choices made in this wizard.	
Connect to Replicas	Click Finish to perform the following actions:	
Select Data Synchronization	Availability Group: ListenerTest	
Validation	- Databases SOLdmRepository 23.8 GB	
Summary	Initial data synchronization: Manual	
Results		
		Script 🔻
	< Previous Finish	Cancel

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.

License Keys								$\times$
Select Cluster Name							-	
Current keys								
	Туре	Servers	Expires	Error	Key			
	Trial	15	8/12/2022	Key	10,000			
Remove       Refresh         Total licensed servers = 0.       Currently monitored servers = 11.         New key       When requesting new keys for this installation, specify " " as the license								
Enter								
Generate License Keys Buy Now							Clo	se
Uick here to manage monitored SQL Servers           Idera Customer Portal         ////////////////////////////////////								

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

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

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