



Dell OpenManage Plug-in Version 2.0 for Oracle Enterprise Manager 12c

Installation Guide

June 2014

Revisions

Date	Description
March 2014	Initial release
June 2014	Version 2.0 with updated support for OEM 12c R4 version and several fixes to version 1.0.

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1 Introduction

The Dell OpenManage Plug-in Version 2.0 for Oracle Enterprise Manager 12c Installation Guide is designed to instruct a database or IT administrator through the fundamental steps of installing and setting up the Dell OpenManage Plug-in for Oracle Enterprise Manager. The guide is designed for administrators with a basic to intermediate understanding of Oracle Enterprise Manager (OEM) and makes some fundamental assumptions on navigation and tooling within the system. In addition to OEM knowledge, it will be necessary for the administrator to have access to an OpenManage Essentials credential set for the configuration portion of this plug-in. Additional knowledge of OpenManage Essentials operation will also be beneficial prior to reading this guide.

Dell OpenManage Plug-in for OEM enables data center customers to monitor Dell devices in an environment managed by Oracle Enterprise Manager. Dell OpenManage Plug-in for OEM also supports mapping of database workload to Dell hardware for quicker fault detection and console launch of Dell devices to perform further troubleshooting, configuration, and management activities.

Dell OpenManage Plug-in for OEM supports the following Dell devices:

- Dell PowerEdge 9th Generation (9G) to 12th Generation (12G) servers
- Dell PowerEdge M1000e, Dell PowerEdge VRTX, and Dell PowerEdge FX2 chassis
- All Dell Storage, including Compellent, EqualLogic and PowerVault devices
- Dell Networking switches, including Force10 and PowerConnect devices

The Dell OpenManage Plug-in for OEM installer (**dell.em.ome_12.1.0.2.0.opar**), Installation Guide, open source licenses and attribution, and the Release Notes are packaged in the self-extracting **dell.em.ome_12.1.0.2.0.zip** file. Before installing this version of the OpenManage Plug-in for OEM, download the latest Dell OpenManage Plug-in for OEM documents at dell.com/support/manuals.

For the latest information about software requirements, management server requirements, hardware platforms supported, known issues, and limitations, see the *Dell OpenManage Plug-in for Oracle Enterprise Manager Installation Guide* and *Dell OpenManage Plug-in for Oracle Enterprise Manager Release Notes* at delltechcenter.com/ome.



2 Prerequisites

The requirements for installing Dell OpenManage Plug-in for OEM are as follows:

- Installation of Dell OpenManage Essentials on a server running a supported Windows server operating system
- Installation and setup of Oracle Enterprise Manager, including:
 - Oracle Management Server
 - Oracle Management Agent

Note: For more information on the setup and configuration of an Oracle Enterprise Manager 12c environment, see the Oracle Enterprise Manager documentation at docs.oracle.com.

2.1 Supported system configurations

Dell OpenManage Plug-in for OEM is supported on the following software versions:

Oracle Enterprise Monitoring:

- Oracle Enterprise Manager Cloud Control 12c R2 (12.1.0.2.0)
- Oracle Enterprise Manager Cloud Control 12c R3 (12.1.0.3.0)
- Oracle Enterprise Manager Cloud Control 12c R4 (12.1.0.4.0)

Oracle Management Server (OMS):

- OpenManage Plug-in for OEM is supported on all Oracle supported OMS platforms

Oracle Management Agent (OMA):

- Oracle Enterprise Linux 4 (32-bit and 64-bit)
- Oracle Linux 5 (32-bit and 64-bit)
- Oracle Linux 6 (64-bit)
- Red Hat Enterprise Linux 4 and 5 (32-bit)
- Red Hat Enterprise Linux 4, 5, and 6 (64-bit)
- Microsoft Windows 2008 (32-bit)
- Microsoft Windows 2003, 2008, 2008 R2, and 2012 (64-bit)

Note: Dell OpenManage Plug-in for OEM is supported on Guest operating systems (Oracle Linux, Red Hat Enterprise Linux, and Microsoft Windows) for Oracle VM listed in the preceding section.

Web browsers:

- Mozilla Firefox versions 12 to 29
- Google Chrome versions 17 to 35
- Microsoft Internet Explorer versions 8 to 11
- Apple Safari versions 5 to 7



OpenManage Essentials

- OpenManage Essentials version 1.3 or later
- Supported operating systems:
 - Microsoft Windows Server 2012 R2 Standard and Datacenter editions
 - Microsoft Windows Server 2012 Standard and Datacenter editions
 - Windows Server 2008 R2 SP1 Standard and Enterprise editions
 - Windows Server 2008 SP2 Standard and Enterprise editions (x64)

Note: OpenManage Essentials is also supported on virtual machines.

For more details on the operating systems supported by OpenManage Essentials and other support related documentation, see the *Dell OpenManage Essentials Support Matrix* at dell.com/openmanagemanuals.

Oracle Database

- Oracle Database 11g and 12c

Note: For more details on Oracle 11g support, see the Oracle 11g Release 1 documentation at docs.oracle.com.

Note: For more details on Oracle 12c support, see the Oracle 12c Release 1 documentation at docs.oracle.com.



2.3 Supported Dell devices

Dell PowerEdge servers (9G to 12G)

Note: In the PowerEdge server name format yxxx; y denotes alphabets, for example M, R, or T and x denotes numbers.

x9xx Systems	yx0x Systems	yx1x Systems		yx2x Systems
PowerEdge 1900	PowerEdge M600	PowerEdge R210	PowerEdge T710	PowerEdge M420
PowerEdge 1950	PowerEdge M605	PowerEdge R210 II	PowerEdge M610	PowerEdge M520
PowerEdge 1955	PowerEdge M805	PowerEdge R310	PowerEdge M610x	PowerEdge M620
PowerEdge 2900	PowerEdge M905	PowerEdge R510	PowerEdge M710	PowerEdge M820
PowerEdge 2950	PowerEdge R200	PowerEdge R515	PowerEdge M710HD	PowerEdge R320
PowerEdge 2970	PowerEdge R300	PowerEdge R610	PowerEdge M910	PowerEdge R420
PowerEdge 6950	PowerEdge R805	PowerEdge R710		PowerEdge R620
	PowerEdge R900	PowerEdge R810		PowerEdge R720
	PowerEdge R905	PowerEdge R815		PowerEdge R720xd
	PowerEdge T100	PowerEdge R910		PowerEdge T320
	PowerEdge T105	PowerEdge R410		PowerEdge T420
	PowerEdge T300	PowerEdge R415		PowerEdge R520
	PowerEdge T605	PowerEdge R715		PowerEdge T620
		PowerEdge T110		PowerEdge R820
		PowerEdge T110 II		PowerEdge R920
		PowerEdge T310		PowerEdge FC420
		PowerEdge T410		PowerEdge FC620
		PowerEdge T610		PowerEdge FM120x4

Dell Chassis devices

PowerEdge VRTX

PowerEdge M1000e

PowerEdge FX2

PowerEdge FX2s



Dell EqualLogic devices

EqualLogic PS4000E	EqualLogic PS6000E	EqualLogic PS6100XS	EqualLogic PS6510 ES
EqualLogic PS4000X	EqualLogic PS6000X	EqualLogic PS6110E	EqualLogic PS6510X
EqualLogic PS4000XV	EqualLogic PS6000XV	EqualLogic PS6110S	EqualLogic PS6600
EqualLogic PS4100X	EqualLogic PS6010	EqualLogic PS6110X	EqualLogic PS6610
EqualLogic PS4100XV	EqualLogic PS6010E	EqualLogic PS6110XS	EqualLogic PS- M4110X
EqualLogic PS4100E	EqualLogic PS6010X	EqualLogic PS6110XV	EqualLogic PS- M4110XV
EqualLogic PS4110X	EqualLogic PS6010XV	EqualLogic PS6210	EqualLogic PSM4110E
EqualLogic PS4110XV	EqualLogic PS6010XVS	EqualLogic PS6500	EqualLogic PSM4110XS
EqualLogic PS4110E	EqualLogic PS6100	EqualLogic PS6500E	EqualLogic P6500X
EqualLogic PS5000E	EqualLogic PS6100E	EqualLogic PS6500ES	EqualLogic FS7500
EqualLogic PS5000X	EqualLogic PS6100S	EqualLogic PS6500X	
EqualLogic PS5000XV	EqualLogic PS6100X	EqualLogic PS6510	
EqualLogic PS5500E	EqualLogic PS6100XV	EqualLogic PS6510E	

Dell PowerVault devices

PowerVault NX200	PowerVault MD3060e	PowerVault MD3600i	PowerVault MD3860f
PowerVault NX300	PowerVault MD3200	PowerVault MD3600f	PowerVault MD3860i
PowerVault NX3000	PowerVault MD3200i	PowerVault MD3620i	
PowerVault NX3100	PowerVault MD3220	PowerVault MD3620f	Tape libraries/drives
PowerVault NX3500	PowerVault MD3220i	PowerVault MD3660i	PowerVault TL2000
PowerVault NF500	PowerVault MD3260	PowerVault MD3660f	PowerVault TL4000
PowerVault DP500	PowerVault MD3260i	PowerVault MD3800i	PowerVault ML6000
PowerVault DL2000	PowerVault MD3400	PowerVault MD3800f	
PowerVault DL2100	PowerVault MD3420	PowerVault MD3820f	
PowerVault DL2200	PowerVault MD3460	PowerVault MD3820i	

Dell Compellent devices

Compellent SC8000



Dell PowerConnect network switches

PowerConnect 2808	PowerConnect 6224F	PowerConnect B- 8000e
PowerConnect 2816	PowerConnect 6248	PowerConnect B- MLXe 16
PowerConnect 2824	PowerConnect 6248P	PowerConnect J- SRX210
PowerConnect 2848	PowerConnect 7000	PowerConnect J- SRX240
PowerConnect 3424	PowerConnect 7024F	PowerConnect J- EX4200 (48T)
PowerConnect 3424P	PowerConnect 7024P	PowerConnect J- EX8216
PowerConnect 3448	PowerConnect 7048	PowerConnect M6220
PowerConnect 3448P	PowerConnect 7048F	PowerConnect M6348
PowerConnect 3548	PowerConnect 7048P	PowerConnect M8024
PowerConnect 3548P	PowerConnect 8024	PowerConnect M8024K
PowerConnect 3524	PowerConnect 8024F	PowerConnect M8428K
PowerConnect 3860	PowerConnect 8100	PowerConnect W- 3200
PowerConnect 5224P	PowerConnect 8132	PowerConnect W- 3600
PowerConnect 5316M	PowerConnect 8132f	PowerConnect W- 6000 M3
PowerConnect 5324	PowerConnect 8164	PowerConnect W- 650
PowerConnect 5424	PowerConnect 8164F	PowerConnect W- 7210
PowerConnect 5448	PowerConnect B- DCX-4S	PowerConnect W- 7220
PowerConnect 5524	PowerConnect B- RX 4	PowerConnect W- 7240
PowerConnect 5548	PowerConnect B- RX 8	
PowerConnect 6224	PowerConnect B- RX 16	
PowerConnect 6224P	PowerConnect B- 8000	

Dell Force10 devices

Force10 C150	Force10 E610	Force10 S4810	Force10 Z9000
Force10 C300	Force10 S25P	Force10 S4820P	Force10 MXL 10/40GbE
Force10 E1200i	Force10 S50	Force10 S4820T	PowerEdge M I/O Aggregator
Force10 E300	Force10 S55	Force10 S5000	
Force10 E600i	Force10 S60	Force10 S6000	

Note: For the complete list of Dell devices supported by OpenManage Essentials, see the *Dell OpenManage Essentials Support Matrix* at dell.com/openmanagemanuals.



2.4 Hardware requirements

2.4.1 Oracle Management Agent (OMA) hardware requirements

Note: The load on the system is influenced by the number of devices promoted to the plug-in. As more devices are promoted, the system will require more hardware to support collection of expanded data sets through the plug-in.

The following are the system requirements for OpenManage Plug-in for OEM:

- 1 GB RAM above and beyond the requirement for OMA
- 2.0 GHz dual-core processor

Note: It is recommended that OpenManage Plug-in for OEM is installed on a separate OMA, rather than on a system running both an OMA and an OMS.

2.4.2 Client display requirements

OpenManage Plug-in for OEM complies with the client requirements as defined by the Oracle Enterprise Manager system prerequisites. The recommended additional client hardware configuration is as follows:

- Client display capable of 1440x852 (8:5) or 1920x1080 (16:9) or more.

2.5 Software requirements

2.5.1 Oracle Management Server (OMS) requirements

OMS requires that the Oracle emcli utility is installed and configured. For more information, see the Oracle Enterprise Manager (OEM) documentation at docs.oracle.com.

2.5.2 Adobe Flash plug-in requirements

OpenManage Essentials Plug-in for OEM requires the Flash plug-in for displaying graphical data in Oracle Enterprise Manager. It is recommended that the latest version of the Flash plug-in is installed and enabled on the web browser used for connecting to the Oracle Cloud Control interface.

2.5.3 OpenManage Essentials requirements

OpenManage Essentials is a mandatory component to be installed on a physical system or virtual machine (Windows operating system) for the Dell OpenManage plug-in to work. The plug-in retrieves all the hardware information to the Oracle EM console from OpenManage Essentials. Therefore, OpenManage Essentials must be installed and the Dell devices (to be monitored in OEM console) must be discovered in OpenManage Essentials for the plug-in to show the relevant data for each device. OpenManage Plug-in for OEM supports OpenManage Essentials version 1.3 or later.



For information on installing, configuring, and using OpenManage Essentials, see the *Dell OpenManage Essentials User's Guide* at dell.com/openmanagemanuals.

The latest version of OpenManage Essentials can be downloaded from Dell TechCenter at delltechcenter.com/ome.



3 Installing Dell OpenManage Plug-in Version 2.0 for Oracle Enterprise Manager 12c

3.1 Importing the OPAR file

1. The Oracle Plugin Archive (OPAR) file is distributed as a packaged zip file. Extract the contents of the zip file and make the OPAR (for example, **dell.em.ome_12.1.0.2.0.opar**) file available to OMS.

Note: At this point it is assumed that the Oracle emcli utility has been properly configured and set up prior to installation.

2. Import the OPAR file into the Software Library of the OMS. The following is an example of an emcli import command (in this example the contents of the downloaded media have been unzipped to the /tmp folder):

```
$ emcli import_update -file=/tmp/dell.em.ome_12.1.0.2.0.opar  
-omslocal
```

After a successful import the following output will be displayed:

```
Processing update: Plug-in - Dell OpenManage Essentials monitoring for  
Servers, CMCs, Storage, and Switches Operation completed successfully.  
Update has been uploaded to Enterprise Manager. Please use the Self  
Update Home to manage this update.  
$
```

3. Log in to Enterprise Manager and navigate to **Setup → Extensibility → Self Update**.

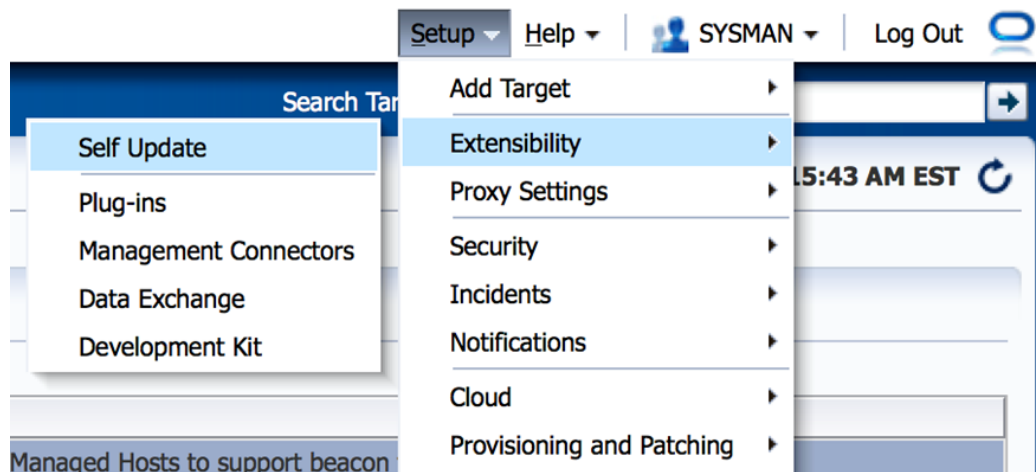


Figure 1 Navigating to Self Update

4. Click the Plugin Folder and confirm that OpenManage Plug-in for OEM has been successfully uploaded to the Software Repository.

3.2 Deploying the plug-in

3.2.1 Deploying the plug-in on an Oracle Management Server (OMS)

1. Log in to an Oracle Enterprise Manager Cloud Control web console with administrative privileges.
2. From the Enterprise Manager web console, navigate to **Setup** → **Extensibility** → **Plug-ins**.
3. In the **Plug-ins** page, select the *Dell OpenManage Essentials* row under the **Servers, Storage and Network** folder.
4. Click the **Deploy On** button from the menu above the table and select **Management Servers...** from the drop-down list.
5. In the **Deploy Plug-in on Management Servers** window, provide the **Repository SYS Password** and click **Continue**.
6. Review the results of the pre-requisite check and click **Next**.
7. If the details in the review page are correct, click the **Deploy** button to begin the plug-in deployment.

Note: The **Review** page displays the management servers on which the plug-in is being deployed, the version of any previously deployed Dell plug-ins, and the status of the OMS.

8. If it is desired to view the progress of the plug-in deployment, select the **Show Status** button on the **Confirmation** window.

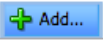
Note: It is recommended to always view the status of a job or task in OEM when given the opportunity. This will help ensure that there are no issues during the execution of the task.

9. The **On Management Server** field, for the plug-in, should now display the version of OpenManage plug-in for OEM that was deployed. To view this field, navigate back to the **Plug-ins** page (**Setup** → **Extensibility** → **Plug-ins**).

Name	Version			Management Agent with Plug-in	Description
	Latest Available	Latest Downloaded	On Management Server		
Applications ⓘ					
Databases ⓘ					
Middleware ⓘ					
Servers, Storage and Network ⓘ					
Dell OpenManage Essentials	12.1.0.2.0	12.1.0.2.0	12.1.0.2.0	1	Dell OpenManage Essentials monitoring for Servers, CMCs, Storage, and Switches

Figure 2 Verifying OMS deployment

3.2.3 Deploying the plug-in on an Oracle Management Agent (OMA)

1. Log in to an Oracle Enterprise Manager Cloud Control web console with administrative privileges.
2. From the Enterprise Manager web console, navigate to **Setup** → **Extensibility** → **Plug-ins**.
3. In the **Plug-ins** page, select the *Dell OpenManage Essentials* row under the **Servers, Storage and Network** folder.
4. Click the **Deploy On** button from the menu bar above the table and select **Management Agent...** from the drop-down menu.
5. Under the **Selected Management Agent** field, click the  button to view the **Search and Select: Targets** window. Use this OEM window to find one or more OMAs acceptable to have the plug-in deployed and installed on.
6. After selecting the appropriate OMA, click **Continue** on the **Deploy Plug-in on Management Agent** window.
7. Review the results of the pre-requisite check and click **Next**.
8. If the details in the review page are correct, click the **Deploy** button to begin the plug-in deployment job.

Note: The **Review** page displays the management servers on which the plug-in is being deployed, the version of any previously deployed Dell plug-ins, and the status of the OMA.

9. If it is desired to view the progress of the plug-in deployment, select the **Show Status** button on the **Confirmation** window.

Note: It is recommended to always view the status of a job or task in OEM when given the opportunity. This will help ensure there are no issues during the execution of the task.

10. The **Management Agent with Plug-in** field, for the plug-in, should now contain the number of OpenManage Essentials plug-ins that were deployed to OMAs. To view this field, navigate back to the **Plug-ins** page (**Setup** → **Extensibility** → **Plug-ins**).







Name	Version			Management Agent with Plug-in	Description
	Latest Available	Latest Downloaded	On Management Server		
Applications 					
Databases 					
Middleware 					
Servers, Storage and Network 					
 Dell OpenManage Essentials	12.1.0.2.0	12.1.0.2.0	12.1.0.2.0	<input type="text" value="1"/>	Dell OpenManage Essentials monitoring for Servers, CMCs, Storage, and Switches

Figure 3 Verifying OMA deployment



3.3 Manually adding the OpenManage Essentials target

1. Log in to an Oracle Enterprise Manager Cloud Control web console with administrative privileges.
2. From the Enterprise Manager web console, navigate to **Setup** → **Add Target** → **Add Targets Manually**.
3. Select the **Add Non-Host Targets by Specifying Target Monitoring Properties** radio button from the *Add Targets Manually* section. The guide will then present two additional fields: **Target Type** and **Monitoring Agent**.
4. From the **Target Type** drop-down list, select the **Dell OpenManage Essentials** target.
5. To fill in the **Monitoring Agent** field, click the  icon to the right of the text box. This will display the **Search and Select: Targets** window. Select the OMA to configure the plug-in to from this window and click **Select**.
6. After selecting the OMA to use, click the **Add Manually...** button to continue to the plug-in configuration page.
7. In the configuration page, set the values for customizing the plug-in connection to the OpenManage Essentials system.
 - a. **Target Name** (required): An instance name desired for the OpenManage Essentials Plug-in target. This name is used to reference this specifically configured target and sub-targets inside of OEM.
 - b. **Dell OpenManage Essentials Hostname** (required): The fully-qualified host name of the system where OpenManage Essentials is installed. This must be the same host name that is used when connecting the OpenManage Essentials web console.
 - c. **Dell OpenManage Essentials Port**: The port that Dell OpenManage Essentials is running on. This value is optional, if it is not provided, the plug-in will use port **2607** by default.
 - d. **Password** (required): A valid password in combination with the associated username is needed to connect to the Dell OpenManage Essentials web services. The account used should have at least OME Users privileges.
 - e. **Username** (required): A valid username in combination with the associated password is needed to connect to the OpenManage Essentials web services. The account used should have at least OME Users privileges..
 - f. **View Acknowledged Alerts (yes/no)** (required): Set this value to **no** if it is desired for the plug-in to not collect device alerts that have been acknowledged in OpenManage Essentials. The plug-in will be set to yes (default), if no value is set for this field.
8. Use the **Test Connection** button in the top-right of the screen to test the credentials that were provided in step 7. This ensures that the plug-in is able to connect properly to the OpenManage Essentials system and collect data.
9. If the test connection result is successful, click **OK** to finalize the target configuration.
10. To view the **Dell OpenManage Essentials** target that was just created, navigate to the All Targets view (**Targets** → **All Target**) and look through the table of targets for the instance name that was used during configuration.

Note: It may take up to 20 minutes for completion of the first collection interval for the target.



At this point, the home target for the plug-in has been successfully deployed in OEM. For complete collection of the Dell OpenManage Essentials environment, it is recommended to follow the instruction in this installation guide and deploy sub-targets for each desired device. If no devices are discovered and promoted, the plug-in will not be able to collect device data from an OpenManage Essentials environment.

Sub-target discovery and promotion is described in the “Discovering device sub-targets” section of this guide.

3.4 Discovering device sub-targets

The discovery process will find all targets related to a Dell OpenManage Essentials target. This includes servers, chassis controllers, storage, and switches.

1. Log in to an Oracle Enterprise Manager Cloud Control web console with administrative privileges.
2. From the Enterprise Manager web console, navigate to **Setup** → **Add Target** → **Configure Auto Discovery**.
3. Under the **Configure Auto Discovery** section, click the **All Discovery Modules** link in the **Auto Discovery** table.
4. Select the appropriate host being used for the OpenManage Essentials target and click the **Configure** button.
5. Uncheck all options except for **Dell OME Discovery Module** to disable the discovery of other targets unrelated to this plug-in.
6. Click **OK**.
7. Select the same host selected in step 4 and click **Run Discovery Now**.

3.5 Promoting discovered device sub-targets

1. After the discovery process is complete, view the discovery results to see the targets that have been discovered.
2. Select all targets in this list from where you want to collect data and click **Promote**.
3. After this process finishes, navigate back to the OpenManage Essentials target to view that the data is now being collected.

Note: The time between the target being promoted and data for the target returning is dependent on the configured collection interval of the OMA.



4 Verifying the Dell OpenManage Plug-in installation

To verify that Dell OpenManage Plug-in is imported correctly in OEM:

1. Log in to an Oracle Enterprise Manager Cloud Control web console with administrative privileges.
2. From the Enterprise Manager web console, navigate to **Setup** → **Extensibility** → **Self Update**.
3. Follow the Plug-in link to view all downloaded and imported OEM plug-ins.
4. In this list verify if the OpenManage Essentials plug-in is listed.

Self Update > Plug-in

Plug-in Updates

Actions ▾ Download Apply Plug-in Search Description

Status	Plug-in Name	OS Platform	Revision	Version	Vendor	Description
Applied	Dell OpenManage ...	Generic Platform	0	12.1.0.2.0	DELL	Dell OpenManage Essentials n
Available	Oracle VDI	Generic Platform	0	12.1.0.2.0	ORACLE	Enterprise Manager for Oracle
Available	Oracle VDI	Generic Platform	0	12.1.0.1.0	ORACLE	Enterprise Manager for Oracle
Available	Oracle Utilities	Generic Platform	0	12.1.0.3.0	ORACLE	Enterprise Manager for Oracle

Figure 4 Verifying plug-in import

To verify that the Dell OpenManage Plug-in is deployed correctly to both the OMA and OMS:

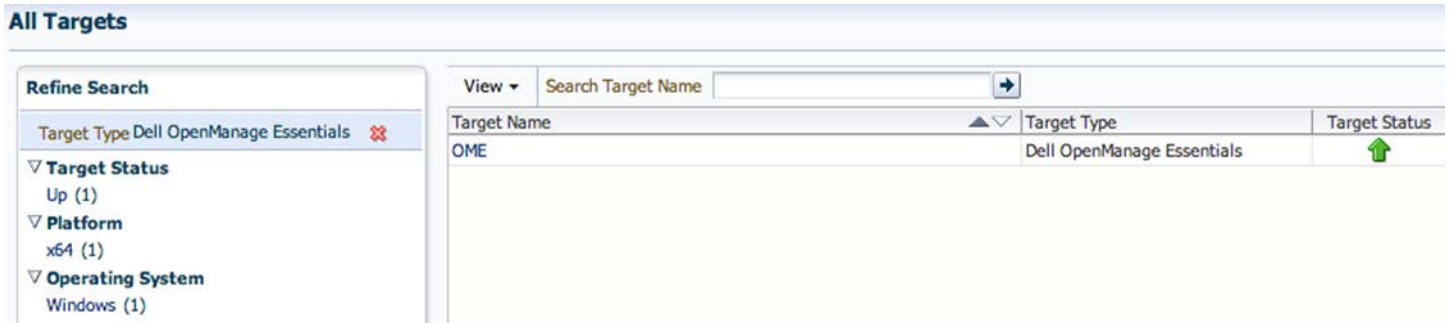
1. Log in to an Oracle Enterprise Manager Cloud Control web console with administrative privileges.
2. From the Enterprise Manager web console, navigate to **Setup** → **Extensibility** → **Plugins**.
3. Expand the **Servers, Storage and Network** folder.
4. In this list verify if the OpenManage Essentials plug-in lists a version for the column **On Management Server**. Also, check if the number under the **Management Agent with Plug-in** column correctly reflects how many OMAs were deployed to.

Name	Version			Management Agent with Plug-in	Description
	Latest Available	Latest Downloaded	On Management Server		
Applications					
Databases					
Middleware					
Servers, Storage and Network					
Dell OpenManage Essentials	12.1.0.2.0	12.1.0.2.0	12.1.0.2.0	1	Dell OpenManage Essentials monitoring for Servers, CMCs, Storage, and Switches

Figure 5 Verifying plug-in deployment

To verify that the Dell OpenManage Plug-in targets were correctly created:

1. Log in to an Oracle Enterprise Manager Cloud Control web console with administrative privileges.
2. From the Enterprise Manager web console, navigate to **Targets** → **All Targets**.
3. In the **Refine Search** panel on the left, select **Dell OpenManage Essentials**. The OpenManage Essentials targets that were created manually are listed.
4. In addition, check to ensure that the **Target Status** column shows a green arrow representing Up status.
5. Continually perform this check for all subsequent Dell OpenManage Essentials target types.



The screenshot shows the 'All Targets' interface. On the left, the 'Refine Search' panel is active, with 'Dell OpenManage Essentials' selected under the 'Target Type' filter. The main table has the following data:

Target Name	Target Type	Target Status
OME	Dell OpenManage Essentials	Up

Figure 6 Verifying target creation



5 Upgrading from Dell OpenManage Plug-in Version 1.0

The procedure for upgrading to Dell OpenManage Essentials Plug-in for OEM 12c version 2.0 is similar to the installation of the base version of the plug-in with the exception that it is not necessary to discover and promote afresh already existing targets in OEM console. There is no need to remove the previous version of the plug-in prior to installation of version 2.0. Further, the targets that were created during the installation of version 1.0 of the plug-in will be migrated after the upgrade to version 2.0. If it is desired to add additional targets, you may do so after the deployment.

Fixes contained in Dell OpenManage Plug-in Version 2.0 will be applied to the version 1.0 targets during the plug-in's next collection, after the completion of the upgrade.



6 Removing Dell device targets

If it is desired to no longer collect metrics for a specific device, the target for that device may be removed. After removal, the device data will no longer be collected and will not be displayed in the Dell OpenManage Plug-in target.

To remove a device target:

1. Log in to an Oracle Enterprise Manager Cloud Control web console with administrative privileges.
2. From the Enterprise Manager web console, navigate to **Targets** → **All Targets**.
3. Right-click the device target that is required to be removed.
4. Select **Target Setup** → **Remove Target...**

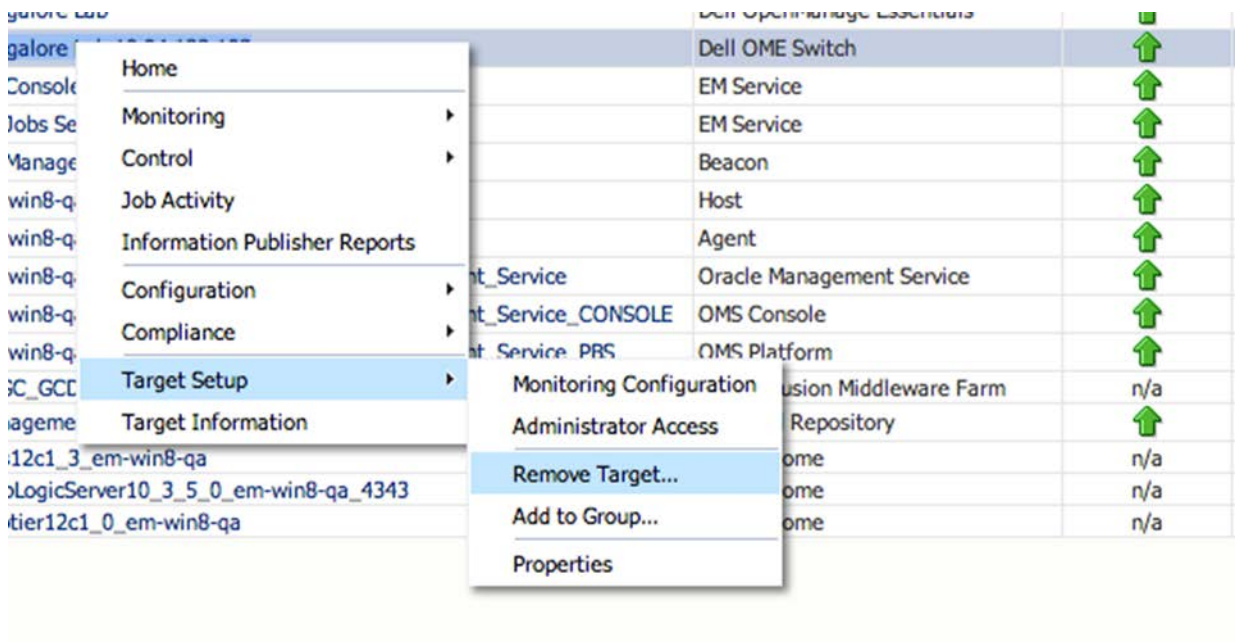


Figure 7 Removing device target

7 Uninstalling Dell OpenManage Plug-in for Oracle Enterprise Manager

Follow the instructions in this section to remove Dell OpenManage Plug-in for OEM from Oracle Cloud Control.

Before uninstalling the plug-in, you must undeploy the plug-in from OMS and OMA:

1. Log in to an Oracle Enterprise Manager Cloud Control web console with administrative privileges.
2. From the Enterprise Manager web console, navigate to **Setup** → **Extensibility** → **Plug-ins**.
3. Expand the **Servers, Storage and Network** folder.
4. Select the Dell OpenManage Essentials plug-in row.
5. Click the **Undeploy From** drop-down list and select **Management Agent...**

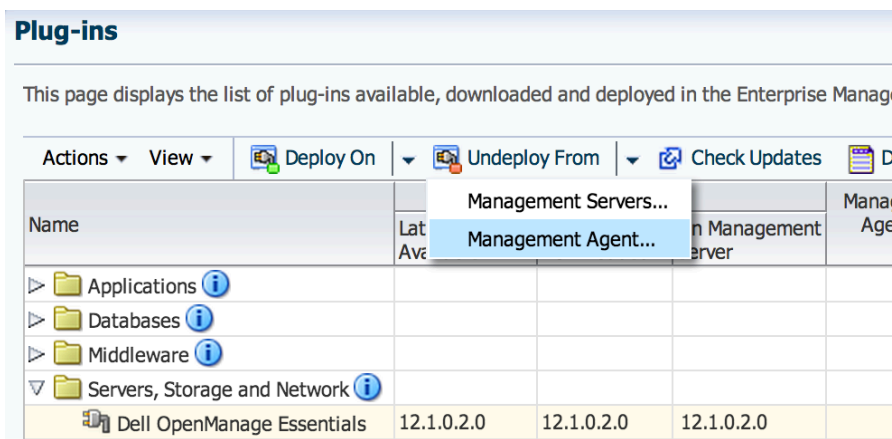


Figure 8 Undeploying the plug-in from the OMA

6. After the undeploy job finishes for the OMS, navigate back to the **Plug-ins** page to undeploy from the OMS: **Setup** → **Extensibility** → **Plug-ins**.
7. Click the **Undeploy From** drop-down list, select **Management Server...** and complete the undeploy wizard.



After the plug-in has been successfully undeployed from both OMA and OMS, the plug-in must be deleted from the **Plug-in Updates** list:

1. Log in to an Oracle Enterprise Manager Cloud Control web console with administrative privileges.
2. From the Enterprise Manager web console, navigate to **Setup** → **Extensibility** → **Self Update**.
3. Follow the Plug-in link to view all downloaded and imported OEM plug-ins.
4. Select the Dell OpenManage Essentials plug-in from the list.
5. Click the **Actions** drop-down list and select **Remove**.

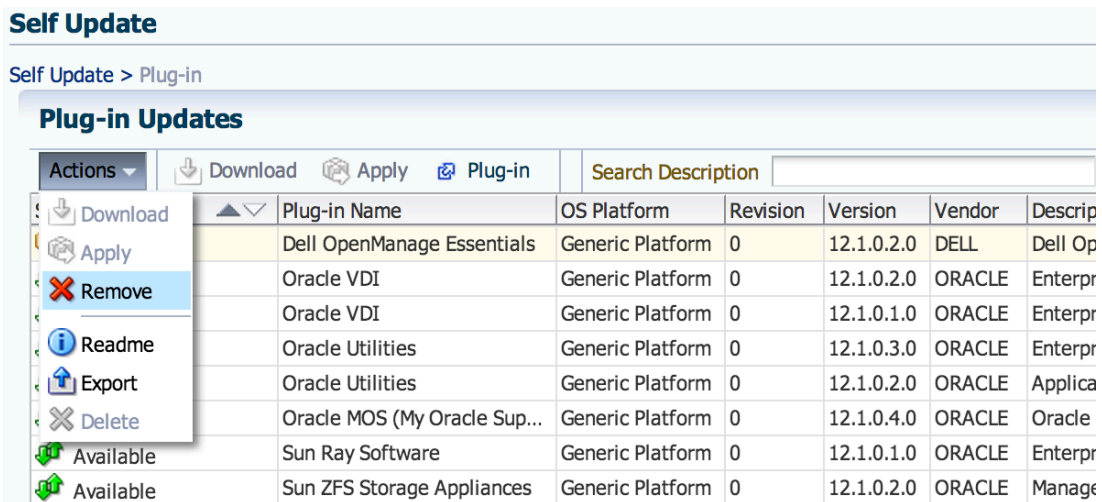


Figure 9 Deleting the plug-in from Self Update



8 Verifying the uninstallation of Dell OpenManage Plug-in

To verify if the Dell OpenManage plug-in has been removed from Oracle Cloud Control, the administrator will need to verify if the plug-in information no longer exists in three locations: Self Update, Plug-ins, and All Targets.

Checking the Self Update page:

1. Log in to an Oracle Enterprise Manager Cloud Control web console with administrative privileges.
2. From the Enterprise Manager web console, navigate to **Setup** → **Extensibility** → **Self Update**.
3. Follow the Plug-in link to view all downloaded and imported OEM plug-ins.
4. Ensure that the Dell OpenManage plug-in is no longer listed here.

Checking the Plug-ins page:

1. Log in to an Oracle Enterprise Manager Cloud Control web console with administrative privileges.
2. From the Enterprise Manager web console, navigate to **Setup** → **Extensibility** → **Plug-ins**.
3. Expand the **Servers, Storage and Network** folder.
4. In this list, ensure that the Dell OpenManage plug-in is no longer listed.

Checking the All Targets page:

1. Log in to an Oracle Enterprise Manager Cloud Control web console with administrative privileges.
2. From the Enterprise Manager web console, navigate to **Targets** → **All Targets**.
3. Check this list and ensure there are no Dell OpenManage Essentials or related targets listed.



9 Related documents

In addition to this guide, you can access the following guides available on the Dell support website at dell.com/support/manuals. On the **Support** page, click **Software and Security** → **Enterprise System Management**. Click the appropriate product link to access the documents.

For example, to view Dell OpenManage Essentials documentation, click **Software and Security** → **Enterprise System Management** → **OpenManage Essentials**.

- *Dell OpenManage Plug-in Version 2.0 for OEM 12c User's Guide*
- *Dell OpenManage Essentials Version 1.3 User's Guide*
- *Dell OpenManage Essentials Support Matrix*
- *Dell Integrated Remote Access Controller User's Guide*
- *Dell OpenManage Server Administrator User's Guide*
- *Dell Chassis Management Controller User's Guide*
- *Dell Chassis Management Controller for Dell PowerEdge VRTX User's Guide*

