

OpenManage Integration for VMware vCenter Quick Install Guide for vSphere Client, Version 2.3



Notes, Cautions, and Warnings



NOTE: A NOTE indicates important information that helps you make better use of your computer.



CAUTION: A CAUTION indicates either potential damage to hardware or loss of data and tells you how to avoid the problem.



WARNING: A WARNING indicates a potential for property damage, personal injury, or death.

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Quick Start Installation

Installation Introduction


This guide provides step-by-step instructions for the installation and configuration of the OpenManage Integration for VMware vCenter installation on Dell servers. Once the installation is complete, refer to the *OpenManage Integration for VMware vCenter User's Guide* for information about all aspects of administration including: inventory management, monitoring and alerting, firmware updates, deployments and provisioning, and warranty management.


 **NOTE:** With installations on hosts that are on 12th and 13th generation of PowerEdge servers, OMSA agent installation is not required. For installations on 11th generation PowerEdge servers OMSA agent is now automatically installed during the deployment process. For more information about OMSA, please see the section "Understanding OMSA For 11G Hosts" in the *OpenManage Integration for VMware vCenter User's Guide*. To more clearly understand 12th generation PowerEdge servers, 13th generation PowerEdge servers and hosts prior to the 12th generation PowerEdge servers, see the Release Notes for this release.

Prerequisites

The following information is needed prior to the start of OpenManage Integration for VMware vCenter installation.

- TCP/IP address information to assign to the OpenManage Integration for VMware vCenter virtual appliance.
- A user name and password for the OpenManage Integration for VMware vCenter to access the vCenter server. This should be an administrator role that has all needed permissions. For additional information on the available OpenManage Integration for VMware vCenter roles within vCenter, see the OpenManage Integration for VMware vCenter Configuration chapter of the *User's Guide*.
- Root password for ESX/ESXi host systems or the active directory credentials which has admin rights on the host.
- User name and password associated with iDRAC Express or Enterprise (only for host systems that include an iDRAC).
- Make sure the vCenter server and vSphere client are currently running.
- Know the location of the OpenManage Integration for VMware vCenter OVF file.
- Install the OpenManage Integration for VMware vCenter (virtual appliance) on any ESX/ESXi host managed by a vCenter instance that will be registered with the virtual appliance.
- Your VMware vSphere environment must meet virtual appliance, port access, and listening port requirements. In addition, install Adobe Flash player 10.0 or higher on the vSphere client system.

 **NOTE:** The virtual appliance functions as a regular virtual machine; any interruptions or shut downs impacts overall functionality of the virtual appliance.

 **NOTE:** The OpenManage Integration for VMware vCenter shows the VMware Tools as 'Running (Out-of-date)' when deployed on ESXi 5.5 and above. You can upgrade the VMware tools after a successful deployment of the appliance or anytime later, if desired.

Product Hardware Requirements

The OpenManage Integration for VMware vCenter provides full support for several generation of Dell servers, with full feature support for servers with iDRAC Express or Enterprise available, and limited feature support for older generation Dell servers. Extensive information on the platform requirements can be found in the OpenManage Integration for VMware vCenter Release Notes. To verify your host servers are eligible, please see these tables in the Release notes:

- Supported server and minimum BIOS
- iDRAC supported versions (both deployment and management)
- OMSA support for older servers and ESX / ESXi version support (both deployment and management)


Software Requirements

The vSphere environment must meet virtual appliance, port access, and listening port requirements.

VMware vSphere has both a desktop client and Web client.

Requirements for Desktop Client

- Install Adobe Flash Player 10.0 or higher on the vSphere client system

 **NOTE:** It is recommended that the OpenManage Integration for VMware vCenter and vCenter server are located on the same network.

For specific software requirements, refer to the *OpenManage Integration for VMware vCenter Release Notes*.

OpenManage Integration for VMware vCenter Port Requirements

- 443 (https) and 80 (http) - For Administration Console
- 4433 (https) - For auto discovery and handshake
- 162 and 11620 - For SNMP trap listener
- 2049, 4001, 4002, 4003, 4004 - For NFS share


Installation and Configuration Overview

The following high-level steps outline the overall installation procedure for the OpenManage Integration for VMware vCenter. These procedures assume that the required hardware is in place and running the required VMware vCenter software. With installations on PowerEdge 12th and higher Generation reference servers, OMSA agent installation is not required for this release. For installing PowerEdge 11th Generation servers, the OMSA agent is now automatically installed during the deployment process. For more information about OMSA, please see the *Dell Management Plug-in User's Guide*.

The following information is an outline of the installation process. To begin the actual installation, see [Deploy Plug-In OVF Using the vSphere Client](#).

Installation Overview


1. Install OpenManage Integration for VMware vCenter.
 - a. Be sure systems are connected, and vCenter server and vSphere client are running.
 - b. Deploy a Open Virtualization Format (OVF) file that contains the OpenManage Integration for VMware vCenter using the vSphere client.
 - c. Upload the license file.
 - d. Register the OpenManage Integration for VMware vCenter with vCenter server using the Administration Console.

 **NOTE:** Register using FQDN is not mandatory, but is highly recommended. For both IP / FQDN based registrations, the hostname of the vCenter should be properly resolvable by the DNS server.

2. Complete Configuration Wizard.
3. Enable Dell events.
 - a. Set up event filter options on the Settings page.
4. Enable firmware updates.
 - a. Download firmware updates, and make them available to applicable systems.
5. Configure the Dell iDRAC user name and password.

Deploying the Dell Management Plug-in OVF Using the vSphere Client

This procedure assumes you have downloaded the zip file from the Dell Web site.

 **NOTE:** Thick Provision Eager Zeroed is the disk format recommended during this installation.

To deploy the Dell Management Plug-in OVF using the vSphere Client:

1. Unzip the file containing the Dell Management Plug-in virtual disk, and run **setup.exe**.
2. Double-click the Setup.exe file to agree to the EULA, extract the user guides, and obtain the OVF file.
3. Copy/move the OVF file to a location accessible to the VMware vSphere host to which you will upload the appliance.
4. Start the VMware vSphere client.
5. From the VMware vSphere client, select **File** → **Deploy OVF Template**.

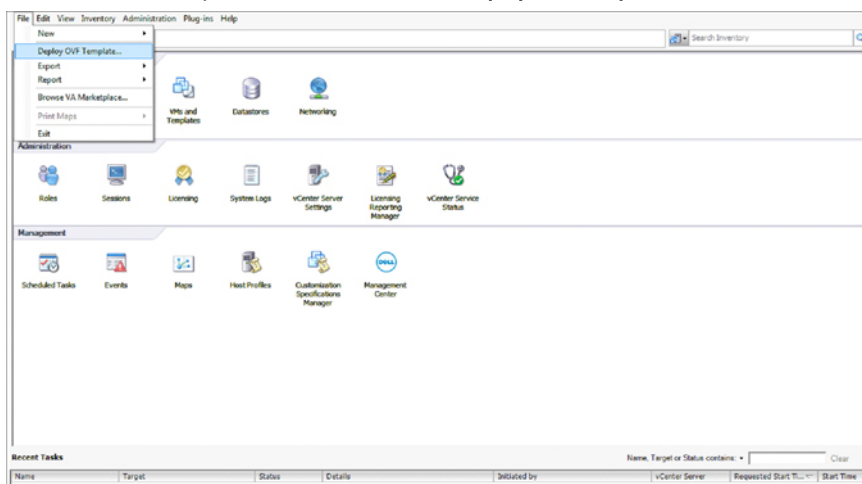



Figure 1. Deploying the OVF Template from vSphere


6. In the **Source** window, use the **Browse** button to locate the OVF package. The location can be a local drive, network drive, CD/DVD, or from the Internet. The Dell Management Plug-in file size is approximately 1.5 GB.

 **NOTE:** The install can take 10-30 minutes if the OVF package resides on a network share. For the quickest installation, it is recommended that you host the OVF on a local drive.
7. Click **Next**.
8. In the **OVF Template Details** window, review the information presented.
9. Click **Next**.
10. In the **Name and Location** window, do the following:

- a. In the **Name** text box, enter the name of the template. This name can contain up to 80 characters.
 - b. In the **Inventory Location** list, select a location to store the template.
11. Click **Next**.
12. Depending on the vCenter configuration, one of the following options displays:
- If resource pools are configured — On the Resource Pool page, select the pool of virtual servers to which the Dell Management Plug-in will be deployed.
 - If resource pools are *not* configured — On the Hosts/Clusters page, select the host or cluster to which the Dell Management Plug-in will be deployed.
13. If there is more than one datastore available on the host, the Datastore page displays. Select the location to store Dell Management Plug-in files, and click **Next**.
14. In the **Disk Format** window, select the format in which you want to store the virtual disks:
- a. **Thick Provision Lazy Zeroed**
A lazy-zeroed thick disk has all the disk space allocated at the time of creation, but each block is zeroed only on first write. This results in a shorter creation time, but reduced performance the first time a block is written to. Subsequent writes have the same performance as eager-zeroed thick disks.
 - b. **Thick Provision Eager Zeroed [Recommended]**
An eager-zeroed thick disk has all the space allocated and zeroed out at the time of creation. This increases the time it takes to create the disk, but results in the best performance, even on the first write to each block.
 - c. **Thin Provision [Not Recommended]**
Space required for a thin-provisioned virtual disk is allocated and zeroed upon first write, as opposed to upon creation. There is a higher I/O cost (similar to that of lazy-zeroed thick disks) during the first write to an unwritten file block, but on subsequent writes thin-provisioned disks have the same performance as eager-zeroed thick disks.
15. Click **Next**.
16. In the **Ready to Complete** window, review the selected options for the OVF deployment task and click **Finish**. The deployment job runs and provides a completion status window where you can track job progress.

Registering OpenManage Integration for VMware vCenter And Importing The License File

This procedure assumes that you have got the licenses in the form of an e-mail attachment from download_software@dell.com. If you have more than one license, you can add the one license after another. The license XML file is used in this procedure and it does not come with a hard coded file name.

 **NOTE:** You cannot use the individual license XML file to upload, instead use the license XML file included in a compressed file. Some editors might add a NULL String to the end of the license when the file is transferred or edited. Therefore, it is not recognized by the XML parser.

1. From the vSphere client, select **Home** → **Hosts and Clusters**, then in the left panel, locate the OpenManage Integration just deployed, and then click **Power on the virtual machine**.
2. Click the **Console** tab in the main VMware vCenter window to initiate the Administration Console.
3. Allow the OpenManage Integration for VMware vCenter to finish booting up and then enter the user name for the administrator (the default is Admin), and set a password.
4. Configure the OpenManage Integration for VMware vCenter network and time zone information.

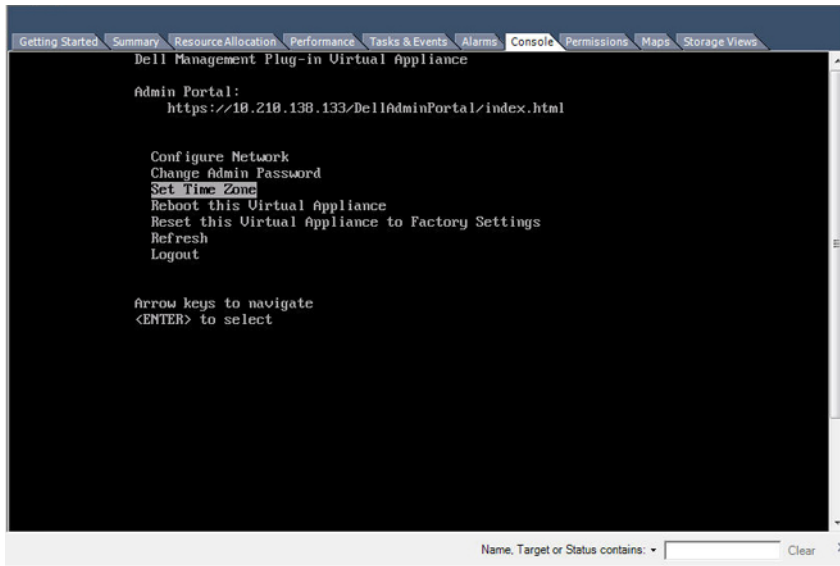


Figure 2. Console tab

5. Open a Web browser and type the appliance's IP address or hostname.
For example: https://10.210.126.120 or https://myesxihost. The URL is case-insensitive.

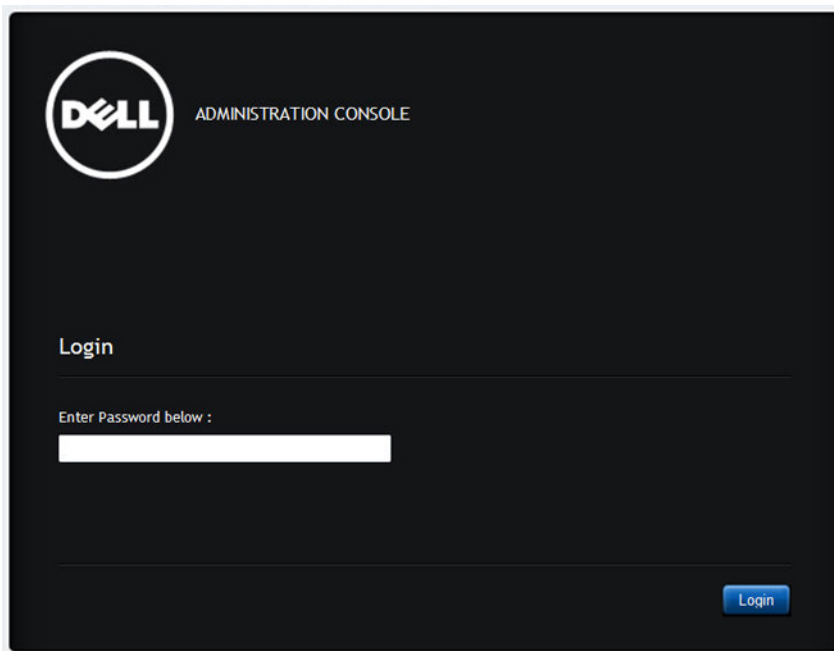


Figure 3. Administration Console

6. In the **Administration Console** login window, enter the password, and then click **Login**.

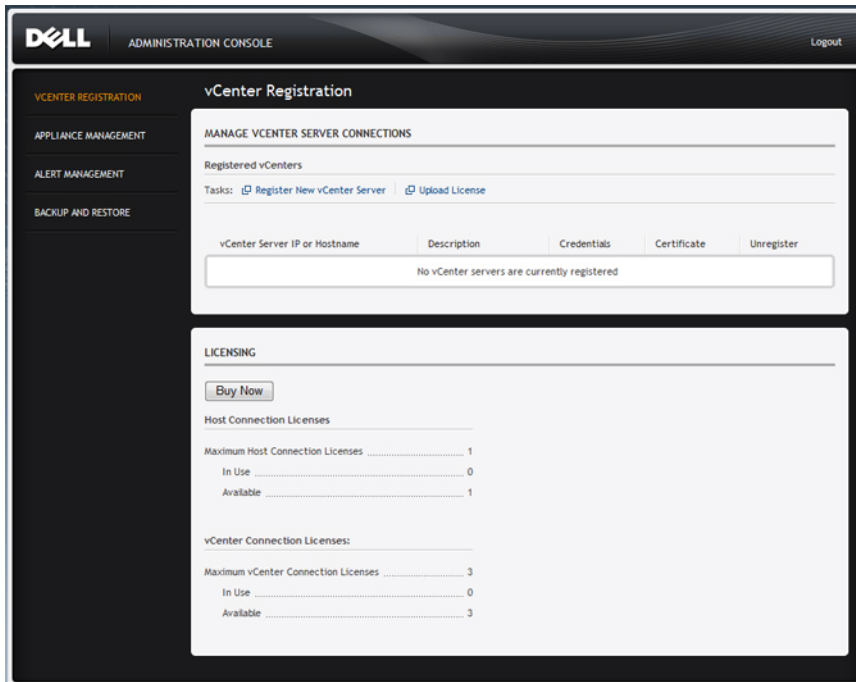



Figure 4. vCenter Registration Window from within the Administration Console

7. In the **vCenter Registration** window, click **Register New vCenter Server**.
8. On the **Register a New vCenter** window, do the following:
 - a. Under **vCenter Name**, in the **vCenter Server IP or Hostname** text box, enter the server IP or hostname and then in the **Description** text box, enter the optional description.
 - b. Under **Admin User Account**, in the **Admin User Name** text box, enter the Admin user name. Enter the username as domain\user or domain/user or user@domain. The Admin user account is used by the OpenManage Integration for vCenter administration.
 - c. In the **Password** text box, enter the password.
 - d. In the **Verify Password** text box, enter the password again.
9. Click **Register**.
10. Do one of the following:
 - If you are using the OpenManage Integration for VMware vCenter trial version, skip to step 12.
 - If you are using the full product version, the license file will be e-mailed to you, and you must import this license to your virtual appliance. To import the license file, click **Upload License**.
11. On the **Upload License** window, click the **Browse** button to navigate to the license file. Click **Upload** to import the license file.

 **NOTE:**

 - If the license file is modified or edited in any way, the license file will not work and you must send an e-mail with the original order number, SKU number, and account number to download_software@dell.com.
 - You cannot use the individual license XML file to upload, instead use the license XML file included in a compressed file. Some editors might add a NULL String to the end of the license when the file is transferred or edited. Therefore, it is not recognized by the XML parser.
12. Once the OpenManage Integration for VMware vCenter is registered, the OpenManage Integration icon displays under the **Management** category of the vCenter home page.

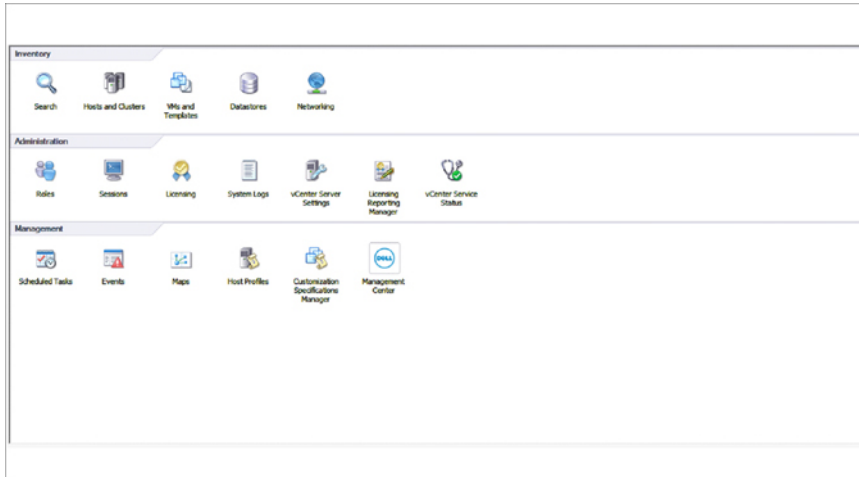


Figure 5. The OpenManage Integration for VMware vCenter Successfully Added to vCenter

Installation Verification

The following steps verify that the OpenManage Integration for VMware vCenter installation was successful:

1. Close any vSphere Client windows and open a new vSphere client.
2. Confirm that the OpenManage Integration icon appears inside vSphere Client.
3. Check that vCenter can communicate with the OpenManage Integration for VMware vCenter by attempting a ping command from the vCenter server to the virtual appliance IP address or hostname.
4. In **vSphere Client**, click **Plug-ins** → **Managed Plug-ins**. In the **Plug-in Manager** window verify the OpenManage Integration for VMware vCenter is installed and enabled.


Upgrading OpenManage Integration Plugin from 2.1 Version to the Current Version

1. Open the Administration Console of the virtual machine using one of the following methods:
 - Open a browser window and enter the Administration Console URL of the virtual machine you want to configure.
The Administration Console URL is displayed in the **vSphere vCenter Console** tab.
 - Use the link from the **Dell Management Console** → **Settings** page.
The URL uses the following format and it is case-insensitive: `https://<ApplianceIPAddress>`
2. In the left pane of the Administration Console, click **APPLIANCE MANAGEMENT**.
3. To upgrade the virtual appliance, perform one of the following:
 - To upgrade using the RPM that is available in the default Update Repository Path, under **Appliance Settings**, click **Update Virtual Appliance**, and then continue with step 7.
 - To upgrade using the latest downloaded RPMs, in the **Appliance Management** page, click **Edit**, and then enter the path that contains the RPM.
4. If you have downloaded the RPM folders/files to the different HTTP location, then modify the repository path. The modified path must point the folder specified in the default path for the Repository location.
5. To save this change, click **Apply**.
6. To apply the update to the virtual appliance, under **Appliance Settings**, click **Update Virtual Appliance**.
7. In the **Update Appliance** dialog box, click **Upgrade**.
After you click **Upgrade**, you are logged off from the Administration Console.

Migration Path to migrate from 1.6/1.7 to 2.3

There is no RPM update support to this version from 1.7 or lower versions. You can migrate from older version (1.6 or 1.7) to the version 2.3 release using the Backup and Restore path. Also, the migration path is only supported from version 1.6 and 1.7. If you are at a lower version than 1.6, you will have to upgrade your appliance to the supported version before you perform the migration to OpenManage Integration for VMware vCenter version 2.3.

Do the following to migrate from older version to the OpenManage Integration for VMware vCenter 2.3 version:

1. Take a Backup of the database for the older release. For more information, See the section, **Managing Backup and Restore** in this guide.
2. Power off the older appliance from the vCenter.
 -  **NOTE:** Do not unregister the Plug-in from the vCenter. Unregistering the plug-in from the vCenter will remove all the Alarms registered on the vCenter by the plug-in and remove all the customizing performed on the alarms like actions and so on, on the vCenter. For more information, see the section **How to recover if I have unregistered the older plugin after the backup** in this guide if you have already unregistered the Plug-ins after the backup.
3. Deploy the new OpenManage Integration version 2.3 OVF. For more information, see the section **Deploying the OpenManage Integration for VMware vCenter OVF Using the vSphere Client** in this guide to deploy the OVF.
4. Power on the OpenManage Integration version 2.3 appliance.
5. Setup the network, time zone and so on to the appliance. It is recommended that the new OpenManage Integration version 2.3 appliance has the same IP address as the old appliance. To setup the network details, see the section, **Registering OpenManage Integration for VMware vCenter And Importing The License File** in this guide.
6. Restore the database to the new appliance. For more information, see the section, **Restoring The Database From A Backup** in this guide.
7. Upload the new license file. For more information, see the section, **Registering OpenManage Integration for VMware vCenter And Importing The License File** in **OpenManage Integration Version 2.3 Quick Install Guide**.
8. Verify the appliance. For more information, see the section **Installation Verification** in this guide to ensure the database migration is successful.
9. Run the Inventory on all the registered vCenters.

 **NOTE:**

It is recommended that you run the inventory on all the hosts managed by the plug-in again after the upgrade. For more information, see the section **Running Inventory Jobs** for steps to run the inventory on demand.

If the IP address of the new OpenManage Integration version 2.3 appliance has changed from that of the old appliance, the trap destination for the SNMP traps must be configured to point to the new appliance. For 12th generation and higher generation servers, this will be fixed by running the Inventory on these hosts. For all 11th generation or lower generation hosts that were earlier complaint, this IP change will show up as non-complaint and will require configuring OMSA. For more information, see the section, **Running the Fix Non-Compliant vSphere hosts Wizard** to fix the host compliance in the this guide.

How to recover if you have unregistered the older plug-in after the backup

If you have unregistered the plug-ins after taking backup of the database of the older version, perform the following steps before proceeding with the migration.



NOTE: Unregistering the plug-in has removed all the customizing that was done on the registered alarms by the plug-in. The following steps will not be able to restore the customizing, however, it will re-register the alarms in the default state.

1. Perform the steps 3-5 in the section Migration Path to migrate from 1.6/1.7 to 2.3 in this chapter.
2. Register the plug-in to the same vCenters that you had registered earlier in the older plug-in.
3. Proceed with step 6 through step 9 in the section Migration Path to migrate from 1.6/1.7 to 2.3 in this chapter to complete the migration. For more information, see the section Migration Path to migrate from 1.6/1.7 to 2.3 in OpenManage Integration Version 2.3 Quick Install Guide.

Understanding How To Configure the OpenManage Integration for VMware vCenter Using the Wizard

After you do the basic installation of the OpenManage Integration for VMware vCenter, it needs to be configured. This is typically done using the Configuration Wizard, but you can also do it using the Settings page options in the Dell Management Center Setting's options.

The user interface in both areas is similar except in the wizard you *Save and Continue*, whereas in the Settings options you click *Apply*.

This section tells you how to configure using the wizard. For information about using the Dell Management Center's Settings options for configuring the OpenManage Integration for VMware vCenter, see *The OpenManage Integration for VMware vCenter User's Guide*.

Configuration Tasks Using the Configuration Wizard

Use these tasks when configuring the OpenManage Integration for VMware vCenter using the Configuration Wizard:

1. Configuration Wizard Welcome Page
2. Scheduling Inventory Jobs
3. Running A Warranty Retrieval Job
4. Configuring The Deployment Credentials
5. Setting The Default Firmware Update Repository
6. Enabling The OMSA Link


Configuration Wizard Welcome Page

After you install the OpenManage Integration for VMware vCenter, it must be configured.

1. In the **vSphere Client**, under **Management**, click the **Dell Management Center** icon.
2. The first time you click on the **Dell Management Center** icon, it opens the **Configuration Wizard**. You can also access this wizard on the **Dell Management Center** → **Settings** page.
3. In the **Welcome** tab, review the steps you will step through, and then click **Next**.


Creating A New Connection Profile [Wizard]


A connection profile stores the credentials that the virtual appliance uses to communicate with Dell servers. Each Dell server must be associated with a connection profile to be managed by the Dell Management Plug-in. You may assign multiple servers to a single connection profile. Creating the Connection Profile is similar between the Configuration Wizard and from the Dell Management Center, Settings option.


 **NOTE:** With installations on hosts that are using 12th or later generation of the Dell PowerEdge servers, the OMSA agent installation is not required. For installations on 11th generation servers, OMSA agent is now automatically installed during the deployment process.


To create a new connection profile using the wizard:

1. From the **Connection Profiles** tab, click **Create New**.
2. In the **Profile Name and Description** panel, enter the **Profile Name** and an optional **Description** that are used to help manage custom connection profiles, and then click **Next**.
3. In the **Associated Hosts** panel, select the host(s) associated with the Connection Profile, and click **Next**.
4. View the information about credentials and connection protocols and click **Next**.
5. In the iDRAC panel, enter the **iDRAC credential information**.
 - a. Enter the **User Name**, **Password**, and **Verify Password**. The user name can contain up to 16 characters including white space..The passwords must match and use ASCII-printable characters only.

 **NOTE:** Passwords can contain up to 20 printable ASCII characters. The domain name can contain alphanumeric characters, - (dash), or . (period) only.
 - b. For **Certificate Check**, select **Enable** to download and store the iDRAC certificate and validate it during all future connections, or select **Disable** to perform no check and not store the certificate.
You need to select Enable if you are using Active Directory.
6. Click **Next**.
7. In the **Host Root Credentials** panel, do the following:
 - a. Enter the **User Name**, **Password**, and **Verify Password**. The passwords must match.


 **NOTE:** Passwords cannot exceed 31 characters and cannot contain any special characters.

 **NOTE:** For servers that do not have either an iDRAC Express or Enterprise card, when the iDRAC test connection is run, *Not Applicable for this system* message is displayed.

 **NOTE:** The OMSA credentials are the same credentials used for ESX and ESXi hosts.
 - b. For **Certificate Check**, select **Enable** to download and store the OMSA certificate and validate it during all future connections, or select **Disable** to perform no check and not store the certificate. Select Enable if you use Active Directory.
8. Click **Next**.
9. The **Test Connection** window tests the entered iDRAC and Host Root Credentials on the selected servers. Do one of the following:
 - To begin the test, click **Test Selected**. The other options are inactive.
 - To stop the tests click **Abort All Tests**.
10. To complete the profile, click **Save**.
11. To continue on to configure Events and Alarms, click **Save and Continue**.




Configuring Events And Alarms [Wizard]

Configure events and alarms using the Configuration Wizard or from the Dell Management Center, Settings option for Events and Alarms.

 **NOTE:** On hosts prior to 12G, this feature requires that the virtual appliance is configured as a trap destination in OMSA to display host events in vCenter.

To configure events and alarms:

1. In the **Configuration Wizard**, under **Event Posting Levels**, select one of the following:

- Do not post any events - Block hardware events.
 - Post All Events - Post all hardware events.
 - Post only Critical and Warning Events - Post only critical or warning level hardware events.
 - Post only Virtualization-Related Critical and Warning Events - Post only virtualization-related critical and warning events; this is the default event posting level.
2. To enable all hardware alarms and events, select the **Enable Alarms for Dell Hosts** check box.
 -  **NOTE:** Dell hosts that have alarms enabled respond to critical events by entering maintenance mode.
 3. In the dialog box that displays, click **Continue** to accept this change, or click **Cancel**.
 -  **NOTE:** This step is only seen if **Enable Alarms For Dell Hosts** is selected.
 4. To restore the default vCenter alarm settings for all managed Dell servers, click **Restore Default Alarms**. It may take up to a minute before the change takes effect.
 5. To continue the wizard, click **Save and Continue**.
 -  **NOTE:** After restoring the appliance the **Events and Alarms** settings are not enabled even if the Graphic User Interface shows it as enabled. You need to enable the **Events and Alarms** settings again from the **Settings** page.


Setting Up A Proxy Server [Wizard]

Set the proxy server in the Configuration Wizard or later using the Dell Management Center, **Settings** → **Proxy** page. To set up a proxy server:

1. In the **Configure HTTP Proxy window**, do one of the following:
 - To not use a proxy server, click **Save and Continue**.
 - To use a proxy server, under **Settings** enter a **Proxy Server Address**.
2. Enter the **Proxy Port number**.
3. Select the **Credentials Required** check box, if needed.
4. If you selected **Credentials Required**, do the following:
 - a. In the **Proxy User Name** text box, type the proxy user name.
 - b. In the **Proxy Password** text box, type the proxy password.
 - c. In the **Verify Password** text box, re-type the proxy password.
5. Under **Proxy**, select the **Use Proxy** check box.
6. To save these options and continue, click **Save and Continue**.

Scheduling Inventory Jobs [Wizard]

The inventory schedule configuration is similar between the Configuration Wizard and from the **Dell Management Center** → **Settings** option. The only difference is that the wizard supplies an option to select if you want to run the inventory immediately.

-  **NOTE:** To make sure that the OpenManage Integration for VMware vCenter continues to display updated information, it is recommended that you schedule a periodic inventory job. The inventory job consumes minimal resources and will not degrade host performance.

To schedule an inventory job:

1. In the **Configuration Wizard**, in the **Inventory Schedule** window, do one of the following:
 - To run inventory schedules, click **On Selected Days**.

- To not run inventory schedules, select **Do not run inventory on Dell hosts**.
2. If you select **On Selected Days**, then do the following:
 - a. Select the check box next to each day of the week that you want to run the inventory.
 - b. In the text box, enter the time in HH:MM format.
The time you enter is your local time. Therefore, if you want to run the inventory at the virtual appliance time zone, calculate the time difference between your local and virtual appliance time zone, and then enter the time appropriately.
 - c. To automatically run the inventory task once the wizard is complete, select the **Run inventory at the end of the wizard [Recommended]** check box.
This check box only appears when the On Selected Days check box is selected.
 3. To apply the changes and continue, click **Save and Continue**.

Running A Warranty Retrieval Job [Wizard]


The warranty retrieval job configuration is similar between the wizard and from the **Dell Management Center** → **Settings** option. In addition, you can run the Warranty Retrieval Job now, from Job Queue.

To run a warranty retrieval job:

1. In the **Configuration Wizard**, on the **Warranty Schedule** window, do one of the following:
 - To run warranty schedules, click **On Selected Days**.
 - To not run warranty schedules, select **Do not retrieve Warranty Data**.
2. If you selected **On Selected Days**, then do the following:
 - a. Select the text box next to each day of the week that you want to run the warranty jobs.
 - b. In the text box, enter the time in HH:MM format.
The time you enter is your local time. Therefore, if you want to run the inventory at the virtual appliance time zone, calculate the time difference between your local and virtual appliance time zone, and then enter the time appropriately.
3. To apply the changes and continue, click **Save and Continue**.

Configuring the Deployment Credentials [Wizard]

Deployment credentials are used to communicate securely with a bare-metal system that is discovered using AutoDiscovery. For secure communication, it uses iDRAC from initial discovery until the end of the deployment process. Once deployment completes, the credentials are changed to those in the connection profile matched to the bare-metal system from the Deployment wizard. If the deployment credentials are changed, all newly discovered systems from that point on are provisioned with the new credentials; however, the credentials on servers discovered prior to the change are not affected.

 **NOTE:** OpenManage Integration for VMware vCenter acts as a provisioning server. The Deployment credentials are set on the iDRAC that uses the plug-in as a provisioning server in the Auto Discovery process.


To configure the deployment credentials:

1. In the **Deployment Credential** window you can view or change the credentials. The bare metal server switches from these credentials to those specified in the Connection Profile.
2. To change these credentials, under **Credentials for Bare Metal Server Deployment**, do the following:
 - a. In the **User name** text box, edit the user name.
 - b. In the **Password** text box, edit the password.
 - c. In the **Verify Password**, text box, confirm the password.
3. To save the specified credentials and continue with the Configuration Wizard, click **Save and Continue**.

Setting The Default Firmware Update Repository [Wizard]


Firmware repository settings contain the firmware catalog location used to update deployed servers. You can set up firmware repository initially here in the wizard or later from the **Dell Management Center** → **Settings** option. In addition, you can run the firmware update later from the OpenManage Integration tab.

To set the default firmware update repository:

1. In the **Configuration Wizard**, on the **Firmware Repository** page, to choose the default repository for firmware updates, select one of the following:
 - **Dell Online**
Default firmware repository (ftp.dell.com) with a staging folder. The OpenManage Integration for VMware vCenter downloads selected firmware updates and stores them in the staging folder, and then they are applied as necessary.
 - **Local/shared repository**
These are created with the Dell Repository Manager application. These local repositories should be located on Windows-based file shares.
2. If you selected **Local/shared repository**, do the following:
 - a. Enter the **Catalog File Location** using the following format:
 - NFS share for xml file: host:/share/filename.xml
 - NFS share for gz file: host:/share/filename.gz
 - CIFS share for xml file: \\host\share\filename.xml
 - CIFS share for gz file: \\host\share\filename.gz
 - b. If using a CIFS share, enter the **User Name**, **Password**, and **Verify Password**; the passwords must match. These fields are only active when entering a CIFS share.
 **NOTE:** The @ character is not supported for use in shared network folder user names/passwords.
 - c. To validate your entries click **Begin Test**.
3. To save this selection and continue the **Configuration Wizard**, click **Save and Continue**.

Enabling The OMSA Link [Wizard]

To launch OpenManage Server Administrator (OMSA) within the OpenManage Integration for VMware vCenter virtual appliance, the OMSA Web Server must be installed and configured. See the *OpenManage Server Administrator Installation Guide* for instructions on how to install and configure the Web Server.

 **NOTE:** OMSA is only required on Dell servers prior to Dell PowerEdge 12th generation servers.

You can use OMSA to:

- Manage vCenter elements (detailed sensor/component-level health information).
 - Clear command logs and system event logs (SELS).
 - Obtain NIC statistics.
 - Make sure that the OpenManage Integration for VMware vCenter captures events from a selected host.
1. In the **Configuration Wizard**, on the **OpenManage Server Admin** page, use the **OMSA Web Server URL** text box to enter the OMSA URL. You must include the full URL including the HTTPS and the port number. For example, https://<OMSA_Server_IP_or_hostname>:1311.
 2. To save this URL and finish the Configuration Wizard, click **Finish**.

Configuring Dell iDRAC Auto-Discovery And Initial Start-up

If you did not order your appliance with Auto-Discovery enabled from the factory manually.

Configuring OMSA Agents To Send Traps

The Install and Configure OMSA agent on the ESX Web site contains detailed instructions, as well as sample scripts, to the OMSA agent to send traps to the OpenManage Integration for VMware vCenter virtual appliance. It is located at the following URL:

<http://en.community.dell.com/techcenter/systems-management/w/wiki/1760.openmanage-server-administrator-omsa.aspx>

Configuring NFS Shares

To use NFS shares with the OpenManage Integration for VMware vCenter for backup and restore operations, firmware updates, and as a staging folder, there are certain configuration items that you must complete. CIFS shares do not require additional configuration.


To configure NFS shares:

1. On the Linux or Unix OS machine hosting the NFS shares, edit `/etc/exports` to add: `/share/path <appliance IP> (rw) *(ro)`.

This allows the virtual appliance full read and write access to the share, but limits all other users to read only.

2. Start nfs services:

```
service portmap start
service nfs start
service nfslock status
```

 **NOTE:** The steps above may vary depending on the Linux distribution in use.

3. If any of the services were already running:

```
exportfs -ra
```

For More Configuration Information

For a complete guide on OpenManage Integration for VMware vCenter configuration, management, and deployment options, see the *OpenManage Integration for VMware vCenter User's Guide*.