OpenManage Integration for VMware vCenter

Version 3.0 Compatibility Matrix

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.

Contents

Overview

This document contains updated information for your *OpenManage Integration for VMware vCenter* (OMIVV) and any other technical documentation included with *OpenManage Integration for VMware vCenter* software.

The *OpenManage Integration for VMware vCenter* 3.0 now supports:

- vCenter 6.0 and 5.1 U3

- VMware ESXi versions 5.1 U3 and 6.0

- Appliance infrastructure upgrade from 32-bit (Cent OS) to 64-bit (Cent OS)

- The readonly password has changed from admin password (for OMIVV v1.0 to v2.3.1) to read only (for OMIVV 3.0 and later) for security purposes.

Topics:

- Space required for provisioned storage
- Default virtual appliance configuration
- Other documents you may need

Space required for provisioned storage

The OpenManage Integration virtual appliance requires 43.5 GB of disk space for provisioned storage.

Default virtual appliance configuration

The OpenManage Integration virtual appliance is provisioned with 8 GB of RAM and 2 virtual CPU.

Other documents you may need

Go to **dell.com/support/manuals** for the following list of documents for vSphere desktop and web client:

- *Dell OpenManage Integration for VMware vCenter 3.0 User's Guide for Desktop client*

- *Dell OpenManage Integration for VMware vCenter 3.0 Installation Guide for Desktop client*

- *Dell OpenManage Integration for VMware vCenter 3.0 User's Guide for Web client*

- *Dell OpenManage Integration for VMware vCenter 3.0 Installation Guide for Web client*

- *Dell OpenManage Integration for VMware vCenter 3.0 Release notes*

Supported resources

This chapter contains sections that provides information about the resources that support OpenManage Integration for VMware vCenter.

Topics:

Browser and Flash player requirements

To display OpenManage Integration for VMware vCenter , a system must have a minimum 1024 x 768 screen resolution and a Web browser that meets minimum requirements based on the operating system.

(i) **NOTE:** Browser and Flash player requirements are as per the VMware guidelines for OpenManage Integration for VMware vCenter.

(i) **NOTE:** A minimum of Adobe Flash player version 11.5.0 with Web browser is required for using the vSphere Web Client in a vCenter version 5.5 U1 or later environment. A minimum of Adobe Flash player version 11.9 is required for a vCenter version 6.0 or later environment. To access OpenManage Integration for VMware vCenter from Windows Server 2012 or later, enable the Desktop Experience Feature to activate the flash player. Install the OpenManage Integration for VMware vCenter (virtual appliance) on any ESXi host.

BIOS, iDRAC, Lifecycle Controller versions

The following BIOS, iDRAC, and Lifecycle Controller versions are required to enable the features of *OpenManage Integration for VMware vCenter*.

It is recommended to use Server Update Utility (SUU), Repository Manager, or Lifecycle Controller's Platform to update your servers to one of the following base versions before using *OpenManage Integration for VMware vCenter*.

Table 1. BIOS for Dell PowerEdge 11th Generation Servers

Server	Minimum Version
PowerEdge R210	1.8.2 or later
PowerEdge R210II	1.3.1 or later
PowerEdge R310	1.8.2 or later
PowerEdge R410	1.9.0 or later
PowerEdge R415	1.8.6 or later
PowerEdge R510	1.9.0 or later
PowerEdge R515	1.8.6 or later
PowerEdge R610	6.1.0 or later
PowerEdge R710	6.1.0 or later

Table 1. BIOS for Dell PowerEdge 11th Generation Servers (continued)

Server	Minimum Version
PowerEdge R710	6.1.0 or later
PowerEdge R715	3.0.0 or later
PowerEdge R810	2.5.0 or later
PowerEdge R815	3.0.0 or later
PowerEdge R910	2.5.0 or later
PowerEdge M610	6.1.0 or later
PowerEdge M610x	6.1.0 or later
PowerEdge M710HD	5.0.1 or later
PowerEdge M910	2.5.0 or later
PowerEdge M915	2.6.0 or later
PowerEdge T110	1.8.2 or later
PowerEdge T310	1.8.2 or later
PowerEdge T410	1.9.0 or later
PowerEdge T610	6.1.0 or later
PowerEdge T710	6.1.0 or later

Table 2. BIOS for Dell PowerEdge 12th Generation Servers

Server	Minimum Version
T320	1.0.1 or later
T420	1.0.1 or later
T620	1.2.6 or later
M420	1.2.4 or later
M520	1.2.6 or later
M620	1.2.6 or later
M820	1.2.6 or later
R220	1.0.3 or later
R320	1.2.4 or later
R420	1.2.4 or later
R520	1.2.4 or later
R620	1.2.6 or later
R720	1.2.6 or later
R720xd	1.2.6 or later
R820	1.7.2 or later
R920	1.1.0 or later

Table 3. BIOS for Dell PowerEdge 13th Generation Servers

Server	Minimum version
R630	1.0.4 or later
T630	1.0.4 or later

Table 3. BIOS for Dell PowerEdge 13th Generation Servers (continued)

Server	Minimum version
R730	1.0.4 or later
R730xd	1.0.4 or later
R430	1.0.2 or later
R530	1.0.2 or later
T430	1.0.2 or later
M630	1.0.0 or later
M830	1.0.0 or later
FC430	1.0.0 or later
FC630	1.0.0 or later
FC830	1.0.0 or later

Table 4. iDRAC and Lifecycle Controller for Deployment

Generation	Version	
	iDRAC	**LifeCycle Controller**
Dell PowerEdge 11th generation servers	3.35 for Modular, 1.85 for Rack or Tower	1.5.2 or later
Dell PowerEdge 12th generation servers	1.00.0 or later	1.0.0.3017 or later
Dell PowerEdge 13th generation servers	2.00.00.00 or later	2.00.00.00 or later

Table 5. BIOS and iDRAC requirements for Cloud server

Model	BIOS	iDRAC with LifeCycle Controller
C6320	1.0.2	2.20.20.20

Port information

Virtual appliance and Managed Nodes

In OpenManage Integration for VMware vCenter, when you deploy the OMSA agent using the *Fix non-compliance hosts* link available in the Compliance window, the OpenManage Integration for VMware vCenter starts the http Client service, enables port 8080, and releases the port for ESXi 5.0 or later to download and install OMSA VIB. After the OMSA VIB installation is complete, the service automatically stops and the port is closed.

Table 6. Virtual Appliance

Port Number	Protocols	Port Type	Maximum Encryption Level	Direction	Usage	Configurable
21	FTP	TCP	None	Out	FTP command client	No
53	DNS	TCP	None	Out	DNS client	No
80	HTTP	TCP	None	Out	Dell Online Data Access	No
80	HTTP	TCP	None	In	Administration Console	No

Table 6. Virtual Appliance (continued)

Port Number	Protocols	Port Type	Maximum Encryption Level	Direction	Usage	Configurable
162	SNMP Agent	UDP	None	In	SNMP Agent (server)	No
443	HTTPS	TCP	128-bit	In	HTTPS server	No
443	WSMAN	TCP	128-bit	In/Out	iDRAC/OMSA communication	No
4433	HTTPS	TCP	128-bit	In	Auto Discovery	No
2049	NFS	UDP/TCP	None	In/Out	Public Share	No
4001-4004	NFS	UDP/TCP	None	In/Out	Public Share	No
5432	Postgres	TCP	128-bit	In/Out	PostgreSQL	No
11620	SNMP Agent	UDP	None	In	SNMP Agent (server)	No

Table 7. Managed Nodes

Port Number	Protocols	Port Type	Maximum Encryption Level	Direction	Usage	Configurable
162, 11620	SNMP	UDP	None	Out	Hardware Events	No
443	WSMAN	TCP	128-bit	In	iDRAC/OMSA communication	No
4433	HTTPS	TCP	128-bit	Out	Auto Discovery	No
2049	NFS	UDP	None	In/Out	Public Share	No
4001-4004	NFS	UDP	None	In/Out	Public Share	No
443	HTTPS	TCP	128-bit	In	HTTPS server	No
8080	HTTP	TCP		In	HTTP server; downloads the OMSA VIB and fixes non-compliant vSphere hosts	No
50	RMCP	UDP/TCP	128-bit	Out	Remote Mail Check Protocol	No
51	IMP	UDP/TCP	None	N/A	IMP Logical Address Maintenance	No
5353	mDNS	UDP/TCP		In/Out	Multicast DNS	No
631	IPP	UDP/TCP	None	Out	Internet Printing Protocol (IPP)	No
69	TFTP	UDP	128-bit	In/Out	Trivial File Transfer	No
111	NFS	UDP/TCP	128-bit	In	SUN Remote Procedure Call (Portmap)	No
68	BOOTP	UDP	None	Out	Bootstrap Protocol Client	No

OpenManage Integration for VMware vCenter requirements

Supported ESXi versions on managed hosts

The following table provides information about the supported ESXi versions on managed hosts.

ESXi version support	Server Generation		
	11G	**12G**	**13G**
v5.0	Y	Y	N
v5.0 U1	Y	Y	N
v5.0 U2	Y	Y	N
v5.0 U3	Y	Y	N
v5.1	Y	Y	N
v5.1 U1	Y	Y	N
v5.1 U2	Y	Y	Y
v5.1 U3	Y	Y	Y (except M830, FC830, and FC430)
v5.5	Y	Y	N
v5.5 U1	Y	Y	N
v5.5 U2	Y	Y	Y
v6.0	Y	Y	Y

Supported vCenter Server versions for release 3.0

The OpenManage Integration for VMware vCenter will work with any of the following vCenter Server versions:

vCenter version	Desktop Client Support	Web Client Support
v5.1 U2	Y	N
v5.1 U3	Y	N
v5.5 U1	Y	Y
v5.5 U2	Y	Y
v6.0	Y	Y

(i) **NOTE:** For more information on Registering a vCenter Server, see *OpenManage Integration for VMware vCenter, Quick Install Guide v3.0* available at **dell.com/support/manuals**.

Supported features on the Dell PowerEdge chassis

This chapter provides information about the supported features on the Dell PowerEdge chassis.

Features	M1000e	VRTX	FX2s
SNMP Alerts	Y	Y	Y
Hardware Inventory	Y	Y	Y
Link and Launch CMC	Y	Y	Y
License Information	N/A	Y	Y
Warranty Information	Y	Y	Y
Health Reporting	Y	Y	Y

Supported features on PowerEdge servers

The following features are supported on the hosts managed by OpenManage Integration for VMware vCenter.

Resource	Platform		
	11th	12th	13th
Hardware Inventory	Y	Y	Y
Events and Alarms	Y (SNMP v1 only)	Y (SNMP v1 and v2)	Y (SNMP v1 and v2)
Component wise Health Monitoring*	Y	Y	Y
BIOS/Firmware Updates**	Y	Y	Y
Warranty Information	Y	Y	Y
Host Compliance	Y	Y	Y
Auto / Manual discovery of bare metal Server	Y	Y	Y
Bare Metal compliance	Y	Y	Y
Hardware Configuration	Y	Y	Y
Bare Metal Hypervisor Deployment	Y	Y	Y
Blink Server LED	Y	Y	Y
View/Clear SEL logs	Y	Y	Y
Link and Launch iDRAC	Y	Y	Y
iDRAC reset	Y	Y	Y

*In Cloud with model number C6320, health monitoring is not supported for the mezzanine cards.

**In Cloud with model number C6320, firmware updates are not supported for the mezzanine cards.

Important notes

This section provides important information that you need to consider when you are working on OpenManage Integration for VMware vCenter.

- *OpenManage Integration for VMware vCenter* supports BIOS mode to deploy Hypervisor on the target server. Make sure that you have BIOS mode selected in the reference hardware profile before applying the Hypervisor profile. If there is no hardware profile selected, make sure to manually configure the boot mode as BIOS and reboot the server before applying the Hypervisor profile.

  (i) **NOTE:** Hypervisor deployment is supported only in the desktop client.

- The *OpenManage Integration for VMware vCenter* currently supports only the community named "Public" or "public".The SNMP community name is not configurable. If another community name is used, the events are not received by the OpenManage Integration for VMware vCenter and the events do not appear in the VMware vCenter.

- A hardware profile created using a reference server with a certain BIOS version can cause deployment to fail. Some BIOS versions do not provide accurate information for certain BIOS settings, such as the Embedded NIC1 and NIC2 settings. When a server with the minimum BIOS version is used as a reference server in a hardware profile, the fields are ignored by both the UI and deployment. An issue may occur, however, if the settings in question are required to have a certain value for deployment to complete successfully.The solution to this issue is to use a server with up-to-date BIOS as a reference server for a hardware profile.

  (i) **NOTE:** Servers being used for deployment should also have updated BIOS. If deployment tries to apply settings to a server with issues in BIOS, deployment fails. Currently the BIOS version is not checked for compliance, but it is displayed on the server compliance page. Warnings are displayed on the hardware profile reference server and BIOS settings pages and when you select a deployment template with an affected hardware profile during deployment.

- Registering OpenManage Integration for VMware vCenter with the VMware vCenter using Fully Qualified Domain Name (FQDN) is highly recommended. For FQDN based registrations, the hostname of the vCenter should be properly resolvable by the DNS server.

  (i) **NOTE:** For more information about the DNS requirements for vSphere, see:

  - https://pubs.vmware.com/vsphere-55/index.jsp?topic=/com.vmware.vsphere.install.doc/GUID-1DD8E69C-4551-4C18-8698-7BFE01BEA8B7.html
  - https://pubs.vmware.com/vsphere-60/index.jsp?topic=/com.vmware.vsphere.install.doc/GUID-1DD8E69C-4551-4C18-8698-7BFE01BEA8B7.html