Dell EMC OpenManage Essentials Version 2.5
Support Matrix

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Notes, cautions, and warnings

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

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.

Introduction

Dell EMC OpenManage Essentials is a hardware management application that provides a comprehensive view of Dell EMC systems, devices, and components in your environment. This document lists the agents, devices, operating systems, and databases supported by OpenManage Essentials version 2.5.

(i) **NOTE:** Dell EMC SupportAssist Enterprise integrates with OpenManage Essentials to provide proactive support capabilities for enterprise servers, storage, and networking solutions by using the existing environment data. For the list of devices supported by Dell EMC SupportAssist Enterprise, see the Dell EMC SupportAssist Enterprise Support Matrix.

Topics:

- Supported agents
- Supported devices
- Supported operating systems
- Supported databases
- Supported browsers
- Minimum recommended hardware for OpenManage Essentials
- Other minimum requirements
- Support for stateless deployment
- Known limitations for stateless deployment
- Accessing documents from the Dell EMC support site

Supported agents

(i) **NOTE:** For more information about the agents listed, see their respective product documentation available on the support site.

Table 1. Agents supported by OpenManage Essentials

Dell EMC systems agents	Supported version
Dell EMC OpenManage Server Administrator	For the 11th, 12th, 13th, and 14th generation of PowerEdge servers—9.1, except for the following PowerEdge servers: ● R840, R940XA—9.1.1 ● MX840C, MX740C—9.1.2
Dell EMC Lifecycle Controller/ iDRAC	All the 14th generation of PowerEdge servers—3.21.21.21 and later versions, except for the following PowerEdge servers: ● MX840C, MX740C—3.20.20.20 For the 12th and 13th generation of PowerEdge servers—2.50.50.50 and later versions For the 11th generation of PowerEdge servers: ● Monolithic systems—1.98 and later versions ● Modular systems—3.65 and later versions
Chassis Management Controller (CMC)	For the PowerEdge MX7000 chassis—1.0 For the PowerEdge M1000e chassis—6.1 For the PowerEdge VRTX chassis—3.1 For the PowerEdge FX2 and FX2s sleds—2.1

Table 1. Agents supported by OpenManage Essentials (continued)

Dell EMC systems agents	Supported version
Dell Command Monitor (previously Dell OpenManage Client Instrumentation)	9.1 and later versions
Dell Networking OS	9.10.0.0, 9.10.0.1P10, 9.11.0.0, 9.11.2.0, 9.13.0.0, and 9.14.0.0

Supported devices

Supported Dell EMC PowerEdge servers

(i) **NOTE:** In the PowerEdge server name format yxxx; y denotes alphabets, for example M, MX, R, or T, and x denotes numbers.

Table 2. Supported PowerEdge servers

yx0x systems	yx1x systems	yx2x systems	yx3x systems	yx4x systems
PowerEdge M600	PowerEdge R210	PowerEdge M420	PowerEdge M630	PowerEdge M640
PowerEdge M605	PowerEdge R210 II	PowerEdge M520	PowerEdge M830	PowerEdge R240
PowerEdge M805	PowerEdge R310	PowerEdge M620	PowerEdge T130	PowerEdge R340
PowerEdge M905	PowerEdge R510	PowerEdge M820	PowerEdge T330	PowerEdge R440
PowerEdge R200	PowerEdge R515	PowerEdge R220	PowerEdge T430	PowerEdge R540
PowerEdge R300	PowerEdge R610	PowerEdge R320	PowerEdge T630	PowerEdge R640
PowerEdge R805	PowerEdge R710	PowerEdge R420	PowerEdge R230	PowerEdge R6415
PowerEdge R900	PowerEdge R810	PowerEdge R520	PowerEdge R330	PowerEdge R740
PowerEdge R905	PowerEdge R815	PowerEdge R620	PowerEdge R430	PowerEdge R740xd
PowerEdge T100	PowerEdge R910	PowerEdge R720	PowerEdge R530	PowerEdge R740xd2
PowerEdge T105	PowerEdge R410	PowerEdge R720xd	PowerEdge R530xd	PowerEdge R7415
PowerEdge T300	PowerEdge R415	PowerEdge R820	PowerEdge R630	PowerEdge R7425
PowerEdge T605	PowerEdge R715	PowerEdge R920	PowerEdge R730	PowerEdge R840
	PowerEdge T110	PowerEdge T320	PowerEdge R730xd	PowerEdge R940
	PowerEdge T110 II	PowerEdge T420	PowerEdge R830	PowerEdge R940XA
	PowerEdge T310	PowerEdge T620	PowerEdge R930	PowerEdge T140
	PowerEdge T410	PowerEdge FC420	PowerEdge FC430	PowerEdge T340
	PowerEdge T610	PowerEdge FC620	PowerEdge FC630	PowerEdge T440
	PowerEdge T710	PowerEdge FM120x4	PowerEdge FC830	PowerEdge T640
	PowerEdge M610			PowerEdge FC640
	PowerEdge M610x			PowerEdge MX840C
	PowerEdge M710			PowerEdge MX740C
	PowerEdge M710HD			
	PowerEdge M910			

Table 3. Supported PowerEdge C-Series servers

C-Series		
PowerEdge C6220	PowerEdge C6100	PowerEdge C4130
PowerEdge C8220	PowerEdge C5220	PowerEdge C6320
PowerEdge C6320p	PowerEdge C6420	PowerEdge C4140

ⓘ **NOTE:** Among the supported PowerEdge C-Series servers, OpenManage Essentials supports the server configuration management feature only on PowerEdge C4130, C6320, C6320p, and C6420.

Supported Dell EMC VxRail Hyper-converged appliances

Table 4. Supported VxRail Hyper-converged appliances

VxRail Hyper-converged appliances			
VxRail E460	VxRail E460F	VxRail P470	VxRail P470F
VxRail V470	VxRail V470F	VxRail S470	

Supported Dell EMC XC Series Web-Scale converged appliances

Table 5. Supported XC Series Web-Scale converged appliances

XC Series Web-Scale converged appliances			
XC6320-6	XC6320-6AF	XC430 Xpress	XC430-4
XC430-8	XC630-10	XC630-10AF	XC630-10P
XC730-16G	XC730xd-12	XC730xd-12C	XC730xd-12R
XC730xd-12R Xpress	XC730xd-12S	XC730xd-24	XC730xd-24S

ⓘ **NOTE:** The SATADOM-specific information is not displayed in the device inventory of OpenManage Essentials.

Supported Dell Storage module

PowerEdge FD332

Supported Dell EMC chassis devices

● PowerEdge VRTX
● PowerEdge M1000e
● PowerEdge MX7000
● PowerEdge FX2
● PowerEdge FX2s

Supported Dell EqualLogic devices

Table 6. Supported EqualLogic devices

EqualLogic devices			
EqualLogic PS4000E	EqualLogic PS5500E	EqualLogic PS6110S	EqualLogic PS6510X
EqualLogic PS4000X	EqualLogic PS6000E	EqualLogic PS6110X	EqualLogic PS6610E

Table 6. Supported EqualLogic devices (continued)

EqualLogic devices			
EqualLogic PS4000XV	EqualLogic PS6000X	EqualLogic PS6110XS	EqualLogic PS6610X
EqualLogic PS4100X	EqualLogic PS6000XV	EqualLogic PS6110XV	EqualLogic PS6610ES
EqualLogic PS4100XV	EqualLogic PS6010	EqualLogic PS6210E	EqualLogic PS-M4110
EqualLogic PS4100E	EqualLogic PS6010E	EqualLogic PS6210X	EqualLogic PS-M4110X
EqualLogic PS4110X	EqualLogic PS6010X	EqualLogic PS6210XV	EqualLogic PS-M4110XV
EqualLogic PS4110XV	EqualLogic PS6010XV	EqualLogic PS6210S	EqualLogic PS-M4110E
EqualLogic PS4110E	EqualLogic PS6010XVS	EqualLogic PS6210XS	EqualLogic PS-M4110XS
EqualLogic PS4210E	EqualLogic PS6100	EqualLogic PS6500	
EqualLogic PS4210X	EqualLogic PS6100E	EqualLogic PS6500E	**NAS appliances**
EqualLogic PS4210XV	EqualLogic PS6100S	EqualLogic PS6500ES	EqualLogic FS7500
EqualLogic PS4210XS	EqualLogic PS6100X	EqualLogic PS6500X	EqualLogic FS7600
EqualLogic PS5000E	EqualLogic PS6100XV	EqualLogic PS6510	EqualLogic FS7610
EqualLogic PS5000X	EqualLogic PS6100XS	EqualLogic PS6510E	
EqualLogic PS5000XV	EqualLogic PS6110E	EqualLogic PS6510 ES	

(i) **NOTE:** Only EqualLogic NAS appliances with Fluid File System (Fluid FS) version 3 are supported.

Supported Dell PowerVault devices

Table 7. Supported PowerVault devices

PowerVault devices			
PowerVault NX200	PowerVault MD3200	PowerVault MD3620i	**Tape Libraries/Drives**
PowerVault NX300	PowerVault MD3200i	PowerVault MD3620f	PowerVault TL2000
PowerVault NX3000	PowerVault MD3220	PowerVault MD3660i	PowerVault TL4000
PowerVault NX3100	PowerVault MD3220i	PowerVault MD3660f	PowerVault ML6000
PowerVault NX3230	PowerVault MD3260	PowerVault MD3800i	
PowerVault NX3330	PowerVault MD3260i	PowerVault MD3800f	
PowerVault NX3500	PowerVault MD3400	PowerVault MD3820f	
PowerVault NF500	PowerVault MD3420	PowerVault MD3820i	
PowerVault DP500	PowerVault MD3460	PowerVault MD3860f	
PowerVault DL2000	PowerVault MD3600i	PowerVault MD3860i	
PowerVault DL2100	PowerVault MD3600f		
PowerVault DL2200			
PowerVault MD3060e			

Supported Dell EMC devices

Table 8. Supported devices

Devices	CX4 Series - Flare / Navisphere	CX4 Series - Flare / Unisphere
Dell EMC CX300	Dell EMC CX4-120	Dell EMC CX4-120
Dell EMC CX3-10	Dell EMC CX4-240	Dell EMC CX4-2400
Dell EMC CX3-20	Dell EMC CX4-480	Dell EMC CX4-480
Dell EMC CX3-40	Dell EMC CX4-960	Dell EMC CX4-960
Dell EMC CX3-80		
Dell EMC CX500		
Dell EMC CX700		

Supported Dell EMC Storage devices (previously Dell Compellent devices)

Table 9. Supported Storage devices

Storage devices	
Dell Compellent SC4020	**NAS appliance**
Dell Compellent SC7020	Dell Compellent FS8600 version 3
Dell Compellent SC8000	
Dell Compellent SC9000	
Storage SCv2000	

Supported Dell Disk Backup devices

- Dell DR4300
- Dell DR4300e
- Dell DR6300

Supported Dell Networking devices (previously PowerConnect and Dell Force10 devices)

Table 10. Supported Networking devices

Networking devices		
PowerConnect 2808	PowerConnect 6224F	PowerConnect B-8000
PowerConnect 2816	PowerConnect 6248	PowerConnect B-8000e
PowerConnect 2824	PowerConnect 6248P	PowerConnect B-MLXe 16
PowerConnect 2848	PowerConnect 7000	PowerConnect J-SRX210
PowerConnect 3424	PowerConnect 7024	PowerConnect J-SRX240
PowerConnect 3424P	PowerConnect 7024F	PowerConnect J-EX4200 (48T)
PowerConnect 3448	PowerConnect 7024P	PowerConnect J-EX8216
PowerConnect 3448P	PowerConnect 7048	PowerConnect M6220
PowerConnect 3548	PowerConnect 7048F	PowerConnect M6348

Table 10. Supported Networking devices (continued)

Networking devices		
PowerConnect 3548P	PowerConnect 7048P	PowerConnect M8024
PowerConnect 3524	PowerConnect 8024	PowerConnect M8024K
PowerConnect 3860	PowerConnect 8024F	PowerConnect M8428K
PowerConnect 5224P	PowerConnect 8100	PowerConnect W-3200
PowerConnect 5316M	PowerConnect 8132	PowerConnect W-3600
PowerConnect 5324	PowerConnect 8132F	PowerConnect W-6000 M3
PowerConnect 5424	PowerConnect 8164	PowerConnect W-650
PowerConnect 5448	PowerConnect 8164F	PowerConnect W-7210
PowerConnect 5524	PowerConnect B-DCX-4S	PowerConnect W-7220
PowerConnect 5548	PowerConnect B-RX 4	PowerConnect W-7240
PowerConnect 6224	PowerConnect B-RX 8	
PowerConnect 6224P	PowerConnect B-RX 16	
Dell Force10 C150	Dell Force10 S50	Dell Force10 S4820T
Dell Force10 C300	Dell Force10 S55	Dell Force10 S5000
Dell Force10 E1200i	Dell Force10 S60	Dell Force10 S6000
Dell Force10 E300	Dell Force10 S3048	Dell Force10 Z9000
Dell Force10 E600i	Dell Force10 S4048	Dell Force10 Z9100
Dell Force10 E610	Dell Force10 S4810	Dell Force10 MXL 10/40GbE
Dell Force10 S25P	Dell Force10 S4820P	
Dell Networking C7004	Dell Networking N3048P	Dell Networking W7205
Dell Networking C7008	Dell Networking N4000	Dell Networking X1008
Dell Networking C9010	Dell Networking N4032	Dell Networking X1008P
Dell Networking N2024	Dell Networking N4032F	Dell Networking X1018
Dell Networking N2024P	Dell Networking N4064	Dell Networking X1018P
Dell Networking N2048	Dell Networking N4064F	Dell Networking X1026
Dell Networking N2048P	Dell Networking M3020	Dell Networking X1026P
Dell Networking N3024	Dell Networking M3048	Dell Networking X1052
Dell Networking N3024P	Dell Networking S6010-ON	Dell Networking X1052P
Dell Networking N3024F	Dell Networking S6100-ON	Dell Networking X4012
Dell Networking N3048	Dell Networking S4048T-ON	Dell Networking Z9500
PowerEdge M IO Aggregator	PowerEdge FN2210S	PowerEdge FN410S
PowerEdge FN410T		

Supported Dell EMC Ready Nodes

Table 11. Supported Ready Nodes

Ready Nodes	
ScaleIO R640	VxFlex R640

Table 11. Supported Ready Nodes (continued)

Ready Nodes	
ScaleIO R740xd	VxFlex R740xd

Supported network security appliances

- Dell SonicWALL NSA 250M

Supported Brocade devices

Table 12. Supported Brocade devices

Brocade devices			
Brocade 200E	Brocade 5100	Brocade 6505	Brocade M6505
Brocade 300	Brocade 5300	Brocade 6510	Brocade 8000
Brocade 4424	Brocade M5424	Brocade 6520	Brocade 8424-K

Supported managed rack Power Distribution Units

- K538N
- G756N
- H544N
- J523N
- K539N

Supported metered rack Power Distribution Units

Table 13. Supported metered rack Power Distribution Units

Power Distribution Units				
1X98J	XX5T6	C0G4D	G740N	G744N
7P35N	RXKCH	G728N	H534N	H537N
09FG8	K5YYY	J519N	J520N	J521N
4J1C2	2CM2K	K535N	K536N	6809

Supported Keyboard, Video, and Mouse (KVM)

Table 14. Supported Keyboard, Video, and Mouse (KVM)

Keyboard, Video, and Mouse (KVM)				
1081AD	2161AD	2161DS-2	2321DS	4332DS
1082DS	2161DS	2162DS	4161DS	

Supported Dell UPS

Table 15. Supported Dell UPS

Dell UPS				
1000T HV	500T HV	2700R/T LV	2700R Telco HV	5600R LI HV-US
4200R HV	1000R LV	2700R/T HV	3750R HV-US	5600R LI HV
1920T LV	1000R HV	2700R/T HV-US	3750R HV	5600R OL HV-US
1920T HV	1920R LV	2700R Telco LV	4200R HV-US	5600R OL HV
500T LV	1920R HV	2700R Telco HV-US	4200R HV	

Supported Dell printers

Table 16. Supported Dell printers

Dell printers				
Dell W5300	Dell 5130cdn	Dell 2335dn	Dell 1710n	Dell B1165nfw
Dell S2500	Dell 5110cn	Dell 2330dn	Dell 1600n	Dell C1660w
Dell M5200	Dell 5100cn	Dell 2155c(d)n	Dell 1320c	Dell C1760nw
Dell 5535dn	Dell 3335dn	Dell 2150cdn	Dell B2360d/dn	Dell C1765nf/nfw
Dell 5530dn	Dell 3130cn	Dell 2145cn	Dell B3460dn	Dell B1265dfw
Dell 5330dn	Dell 3115cn	Dell 2135cn	Dell B3465dn/dnf	
Dell 5310n	Dell 3110cn	Dell 2130cn	Dell B5460dn	
Dell 5230dn	Dell 2355dn	Dell 1815dn	Dell B5465dnf	
Dell 5210n	Dell 2350dn	Dell 1720n	Dell B1163/w	

Supported client systems

Table 17. Supported client systems

Client systems				
Latitude 13	Latitude E6400	Precision R5400	Precision T7810	OptiPlex 9030
Latitude 10 ST2	Latitude E6410	Precision R7610	OptiPlex 980	OptiPlex XE
Latitude D531	Latitude E6540	Precision R7910	OptiPlex 990	OptiPlex XE2
Latitude 14 Rugged Extreme 7407	Latitude E6430U	Precision R7920	OptiPlex 3011	OptiPlex 7010
Latitude 3550	Latitude E7240	Precision T1700	OptiPlex 3020M	Dell Venue 11 Pro 7130/7139
Latitude E3440	Latitude E7440	Precision T3600	OptiPlex 3030	
Latitude E3540	Latitude E7450	Precision T3610	OptiPlex 9010AIO	
Latitude E5450	Latitude Z600	Precision T5610	OptiPlex 9020	
Latitude E6220	Precision M4700	Precision T7610	OptiPlex 9020AIO	

> **NOTE:** If an alert is received from a device with unknown severity, you can import the device MIB files using the MIB Import Utility to enable OpenManage Essentials to classify the alerts.

OEM devices

Dell EMC OEM devices (re-branded or de-branded Dell servers and Compellent S8000 iDRAC), when discovered, are classified under **OEM Devices** in the device tree. Most of the functionality available to the PowerEdge servers, such as tasks, reports, and filters are also applicable to the PowerEdge OEM servers. However, system update may not be possible if it is not supported by the OEM device module. OEM servers are always classified under the **OEM Devices** group in the device tree. They are not displayed under the **Servers** or **RAC** group. If both the server and RAC of the OEM device are discovered, they are correlated and displayed as one device under the **OEM Devices** group. Other OEM devices except servers and RAC are classified under the different server groups such as Microsoft Virtualization Servers, VMware ESX servers, and so on, based on the classification criteria they fulfill.

Supported operating systems

This section lists the operating systems on which you can install OpenManage Essentials (on a management station) and the operating systems that OpenManage Essentials can manage (for managed systems).

Supported operating systems for management stations

- Microsoft Windows Server 2016 Standard and Datacenter Editions
- Windows Server 2012 R2 Standard and Datacenter Editions
- Windows Server 2012 Standard and Datacenter Editions
- Windows Server 2008 R2 SP1 Standard and Enterprise Editions

(i) **NOTE:** OpenManage Essentials version is supported only on 64-bit operating systems.

(i) **NOTE:** The Wow64 component is required to run on a 64-bit operating system.

(i) **NOTE:** OpenManage Essentials is also supported on virtual machines.

(i) **NOTE:** Ensure that KB2919355 update is installed on Windows 2012 R2 systems to run OpenManage Essentials 2.5. To install KB2919355 update manually, see the Microsoft Knowledge Base article ID 2919355 at www.support.microsoft.com.

Supported operating systems for managed systems

Dell EMC systems and operating system versions that OpenManage Essentials can manage correspond to the Dell systems and operating systems supported by Dell OpenManage Software. For the Dell systems and operating system versions that OpenManage Essentials can manage, see Dell Systems Management - OpenManage Software Support Matrix. On the **Support** page, click **OpenManage Software**, and then click the appropriate version of OpenManage software.

(i) **NOTE:** The operating systems supported by OpenManage Software vary depending on the OpenManage Software version.

Supported operating systems for managed client systems

The Dell systems and operating system versions that OpenManage Essentials can manage correspond to the Dell systems and operating systems supported by Dell Command Monitor. For the Dell systems and operating system versions that OpenManage Essentials can manage, see the Dell systems and operating systems listed in the *Dell Command | Monitor User's Guide*. To access the User's Guide, visit www.dell.com/support. On the **Support** page, click **Choose from all products** > **Software & Security** > **Dell Client Command Suite** > **Dell Command | Monitor**, and then click the appropriate version of Dell Command Monitor.

(i) **NOTE:** The operating systems supported by Dell Command Monitor vary depending on the Dell Command Monitor version.

Supported databases

> **NOTE:** Only case-insensitive instance of SQL Server is supported. It is recommended that you install the latest SQL Server Service pack.

- Microsoft SQL Server 2016 Standard, Enterprise, and Express Editions
- SQL Server 2014 Standard, Enterprise, and Express Editions
- SQL Server 2012 Standard, Enterprise, and Express Editions
- SQL Server 2008 R2 SP1 Standard, Enterprise, and Express Editions

> **NOTE:** If you choose to install OpenManage Essentials on a local database, Microsoft SQL Server 2014 SP2 Express edition is installed on the system. For large deployments, you must use SQL Standard.

> **NOTE:** While installing OpenManage Essentials on a local database, ensure that Microsoft SQL Server Express editions are configured with 'SQLEXPRESSOME' named instance. For more information about the local database instances supported, see the *Installing OpenManage Essentials* technical white paper on the Dell TechCenter.

> **NOTE:** Both 32-bit and 64-bit versions of Microsoft SQL Server are supported. However, it is recommended to use a 64-bit version of Microsoft SQL Server.

> **NOTE:** OpenManage Essentials database does not support the 'Always On Availability Groups' feature of Microsoft SQL Servers.

Supported browsers

- Microsoft Internet Explorer 10 and 11
- Mozilla Firefox 50 and 51

> **NOTE:** Supported only on Windows-based operating systems.

Minimum recommended hardware for OpenManage Essentials

Table 18. Minimum recommended hardware

Minimum recommended hardware	Large deployments	Large deployments	Large deployments	Medium deployments [a]	Small deployments [a]
Number of devices	Up to 8000	Up to 5500	Up to 2000	Up to 500	Up to 100
Type of system	Physical machines / Virtual machines	Physical machines / Virtual machines	Physical machines / Virtual machines	Physical machines / Virtual machines	Physical machines / Virtual machines
RAM	16 GB	8 GB	8 GB	6 GB	6 GB
Processor cores	16	8	8	4	2
Database	SQL Enterprise or Standard	SQL Enterprise or Standard	SQL Enterprise or Standard	SQL Express	SQL Express
Database location	Remote **[b]**	Remote **[b]**	Remote **[b]**	Local	Local
Database size	14 GB	10 GB	6 GB	2 GB	1 GB

Table 18. Minimum recommended hardware (continued)

Minimum recommended hardware	Large deployments	Large deployments	Large deployments	Medium deployments [a]	Small deployments [a]
Free space on hard drive	30 GB	20 GB	10 GB	10 GB	10 GB

[a] If you are not using SQL Express, limit the maximum memory to 2 GB less than the total system memory and disable SQL analysis and report services.

[b] Install the remote database on a system that supports the minimum recommended hardware for OpenManage Essentials.

(i) **NOTE:** Before upgrading to OpenManage Essentials version 2.5, ensure that the system is configured with SQL Server Enterprise or Standard edition, 8 GB RAM and 8 cores processor when configuration deployment and compliance features are used.

(i) **NOTE:** The recommended minimum hardware requirements for OpenManage Essentials on a domain controller are 8 GB RAM, 8 cores processor, and a remote database.

(i) **NOTE:** If Dell EMC SupportAssist Enterprise is installed along with OpenManage Essentials, you require 2 GB RAM and 2 cores in addition to the minimum requirements described in the previous table. If you are using SQL Server Standard or Enterprise Editions, the maximum SQL Server memory must be configured within SQL Server to prevent it from using the entire system memory. It is recommended that you use a maximum of 4 GB for a 6 GB RAM.

Other minimum requirements

- Microsoft .NET Framework version 4.6.2
- Microsoft SQL Server database, for more information, see Supported databases.
- Operating system, for more information, see Supported operating systems.
- Supported browsers, for more information, see Supported browsers.
- Microsoft Silverlight version 5.1.50907
- Microsoft Visual C++ 2015 Runtime 14.0
- Network Bandwidth—1 Gbps or higher

(i) **NOTE:** The recommended minimum network bandwidth required for OpenManage Essentials in a WAN environment is 10 Mbps (for monitoring) and 20 Mbps (for updates).

Support for stateless deployment

Stateless deployments depend on the Host Bus Adapter (HBA) cards available in the PowerEdge servers. A server may have HBA cards manufactured by one or more vendors. Stateless deployments may or may not be supported on a server depending on the HBA card vendor.

(i) **NOTE:** For the list of HBA card types that support stateless deployment, see "Supported cards for I/O Identity Optimization" in the *iDRAC User's Guide* at Dell.com/idracmanuals.

(i) **NOTE:** Before you perform stateless deployment, ensure that the HBA cards have the latest firmware version installed.

Known limitations for stateless deployment

The following are the known limitations for deploying virtual I/O identities on target servers:

- On Broadcom network adapters, OpenManage Essentials does not support boot from ISO for installing the operating system on a SAN along with the virtual I/O identity deployment. However, if an operating system is already installed on the SAN, after deployment of virtual I/O identities, the server can boot from the SAN.
- For PowerEdge FC430, FC630, and FC830 sleds, the PCIe cards (FC and iSCSI) in the shared PCIe slots of the PowerEdge FX2s chassis are supported for stateless deployment. However, if the PCIe cards are mapped, replacement can be

performed only to an exactly similar sled in the same slot with the same PCIe mapping in another chassis. If the PCIe cards are not mapped, replacement can be performed on any similar sled.

- For performing stateless deployment on blade servers, the FlexAddress mode must be disabled on the blade server to prevent the host chassis from assigning I/O identity attributes. Even if the FlexAddress mode is enabled, OpenManage Essentials overrides the FlexAddress mode.
- While performing a stateless deployment on a server with a QLogic Converged Network Adapter, OpenManage Essentials generates different attribute values for the virtual MAC (vMAC) and virtual FIP (vFIP) MAC attributes. However, only the value of the vMAC attribute is deployed for both the vMAC and vFIP MAC attributes. If you create a zone for SAN boot before the deployment, ensure that the zone is created based on the vMAC address generating virtual WWPN (vWWPN) and virtual WWNN (vWWNN). For example, 20:00:vMAC for vWWNN and 20:01:vMAC for vWWPN.
- Intel NIC cards do not support unique iSCSI initiator name for each port. OpenManage Essentials deploys the same IQN value for all ports in the Intel NIC card.

Accessing documents from the Dell EMC support site

You can access the required documents in one of the following ways:

- Using the following links:
  - For Dell EMC Enterprise Systems Management, Dell EMC Remote Enterprise Systems Management, and Dell EMC Virtualization Solutions documents — www.dell.com/esmmanuals
  - For Dell EMC OpenManage documents — www.dell.com/openmanagemanuals
  - For iDRAC documents — www.dell.com/idracmanuals
  - For Dell EMC OpenManage Connections Enterprise Systems Management documents — www.dell.com/OMConnectionsEnterpriseSystemsManagement
  - For Dell EMC Serviceability Tools documents — https://www.dell.com/serviceabilitytools
- From the Dell EMC Support site:
  1. Go to https://www.dell.com/support.
  2. Click **Browse all products**.
  3. From **All products** page, click **Software**, and then click the required link from the following:
     - **Analytics**
     - **Client Systems Management**
     - **Enterprise Applications**
     - **Enterprise Systems Management**
     - **Mainframe**
     - **Operating Systems**
     - **Public Sector Solutions**
     - **Serviceability Tools**
     - **Support**
     - **Utilities**
     - **Virtualization Solutions**
  4. To view a document, click the required product and then click the required version.
- Using search engines:
  - Type the name and version of the document in the search box.