VMware vSphere 6.7.x on Dell EMC PowerEdge Servers

Getting Started Guide

D∕∕LLEMC

Notes, cautions, and warnings

(i) **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.**

Contents

Getting started with VMware vSphere

This document helps you in setting up your Dell EMC PowerEdge server and configuring VMware vSphere.

(i) **NOTE: If you had ordered VMware ESXi with your Dell EMC PowerEdge server, it is preinstalled on your server. The ESXi installer media is required for reinstallation. If you did not order ESXi with your server, you can order the Internal Dual SD Module kit (for supported Dell EMC PowerEdge servers) at www.dell.com/support/home, and then download the ESXi installation media from www.dell.com/support/drivers.**

Topics:

- Important information
- Download the Dell EMC customized ESXi image files
- Configuring ESXi on Dell EMC PowerEdge server

Important information

For all the Dell EMC PowerEdge servers with factory-installed VMware ESXi operating system:

- For all Dell EMC PowerEdge yx4x servers:
  - ○ Username: `root`.
  - ○ Password: Service Tag of the server followed by an exclamation mark (!).
- (i) **NOTE: To locate the Service Tag of your server, see Locating Service Tag of your system..**
- For allDell EMC PowerEdge yx3x servers:
  - ○ Username: `root`.
  - ○ Password: none.

For the Dell EMC PowerEdge servers with factory-installed VMware ESXi operating system on the BOSS-S1 device:

- Dell EMC PowerEdge yx4x servers do not have VMFS datastore enabled by default. It is recommended that you use the BOSS-S1 device as an OS boot device and vSphere ESXi Logging device. For more information, see VMware Knowledge Base article 2145210.

(i) **NOTE: Before deploying the system, Dell EMC recommends you see the *VMware vSphere 6.7.x on Dell EMC PowerEdge Server Release Notes* at www.dell.com/virtualizationsolutions.**

Download the Dell EMC customized ESXi image files

Dell EMC has migrated the latest revision of the Dell EMC customized ESXi image files with customized drivers to the website of VMware. This change aligns with industry-standard practices and brings the Dell EMC-customized image to the same location as that of our competitors. For customers who manage heterogeneous data centers, this simplifies the procurement of software image files because they will all be saved in one location. Visit my.vmware.com license portal or click My VMware Downloads. Older versions of these image files can be downloaded from www.dell.com/support.

For information about how Dell EMC is offering customized versions of VMware ESXi image files, see Dell's Customization of VMware ESXi and Its Advantages.

Download Dell EMC customized ESXi image and Dell EMC Addon from Dell EMC support site

(i) **NOTE: Ensure that you clear the web browser cache before downloading the drivers and firmware.**

1. Go to www.dell.com/support/drivers.
2. In the **Drivers & Downloads** section, enter the Service Tag of your system in the **Enter a Dell Service Tag, Dell EMC Product ID, or Model** box, and then click the right arrow button. If you do not have the Service Tag, select **Detect PC** to allow the system to automatically detect the service tag, or click **Browse all products**, and then navigate to your product.
3. Click **Drivers & Downloads**.

   The drivers that are applicable to your system are displayed.

4. From the **Operating System** list, select the appropriate VMware version.
5. In the **Category** list, select **Enterprise Solutions**.

   The latest Dell EMC VMware ESXi customized image files are displayed.

6. Click **Download**.
   The Dell EMC customized image file is successfully downloaded from the Dell EMC support site.

Download Dell EMC customized ESXi image file from VMware site

(i) NOTE: **Ensure that you clear the web browser cache before downloading the drivers and firmware.**

(i) NOTE: **To download the drivers and firmware, you must be a registered user in my.vmware.com.**

To download the ESXi image file, do the following:

1. Go to my.vmware.com and log in with your admin credentials.
2. Select **View & Download products** > **All Products** and then click the **View Download Components** link of **VMware vSphere**.
3. Select the image version from the **Select Version** list.
4. Click **Custom ISOs**.
5. Expand the **OEM Customized Installer CDs** option, and then click **Go to Downloads** to download the image.

Configuring ESXi on Dell EMC PowerEdge server

1. Set up your Dell EMC PowerEdge server.

   For more information, see the *Getting Started Guide* and the *Rack Installation Instructions* document shipped with your server.

2. Power on the server.
   The ESXi console is displayed.
3. To configure ESXi, press F2.

   Configuring the software includes changing the root password and setting a static IP address.

   (i) NOTE: **By default, the server obtains an IP address using the Dynamic Host Configuration Protocol (DHCP).**

4. To change the root password from the main menu, select **Configure Password**.

   The root password manages the server on a one-to-one basis.

5. To configure a static IP address, select **Configure Management Network** > **IP Configuration** > **Set static IP address and network configuration**.

   (i) NOTE: **Note down the network IP address of the ESXi.**

If you purchased the ESXi hypervisor-based vSphere Standard, Enterprise, Enterprise Plus, Essentials Plus software, or Acceleration kits from Dell EMC, you must have received the Partner Activation Code certificate with the server. To use the ESXi software and receive subscription services, follow the instructions in your Partner Activation Code certificate that is included with the server.

(i) NOTE: **By using the VMware software, you agree to the VMware End User License Agreement (EULA) at vmware.com/downloads/eula. For more information about license keys and VMware software licensing configuration, see the VMware documentation at vmware.com/support/pubs.**

Getting help

Topics:

- Contacting Dell EMC
- Related information for virtualization solutions
- Documentation resources
- Download drivers and firmware
- Documentation feedback
- Locating Service Tag of your system

Contacting Dell EMC

Dell EMC provides several online and telephone-based support and service options. Availability varies by country, region, and product, and some services may not be available in your area.

To contact Dell EMC for sales, technical assistance, or customer service issues, see www.dell.com/contactdell.

If you do not have an active Internet connection, you can find contact information on your purchase invoice, packing slip, bill, or the product catalog.

Related information for virtualization solutions

Table 1. Related information for virtualization solutions

If you need information about	See
Dell EMC VMware documentation	www.dell.com/virtualizationsolutions
OpenManage documentation	www.dell.com/openmanagemanuals
PowerEdge documentation	www.dell.com/poweredgemanuals
Basic configuration information for running ESXi on a Dell EMC PowerEdge server	Getting Started Guide at www.dell.com/virtualizationsolutions
• Information about downloading, installing, and configuring ESXi • Supported hardware configurations for running ESXi on a Dell EMC PowerEdge server	Installation Instructions and Important Information Guide at www.dell.com/virtualizationsolutions
PowerEdge servers and compatibility with vMotion	*VMware ESXi vMotion Support on Dell EMC PowerEdge Servers Compatibility Matrix* at www.dell.com/virtualizationsolutions
PowerEdge and PowerVault compatibility information for running ESXi	*VMware vSphere for Dell EMC PowerEdge Servers Compatibility Matrix* at www.dell.com/virtualizationsolutions
Known issues and resolutions	*VMware vSphere 6.7.x on Dell EMC PowerEdge Server Release Notes* at www.dell.com/virtualizationsolutions
ESXi ISO image customization information	*VMware ESXi on Dell EMC PowerEdge Systems Image Customization Information* at www.dell.com/virtualizationsolutions

Technical support resources

- vmware.com/support

- Dell.com/support/home
- Dell.com/services

Discussion forums

- communities.vmware.com/community/vmtn
- Dell Virtualization
- Wikis, Forums, Blogs, and Videos
- Dell Community

Knowledge base

- kb.vmware.com/kb

ⓘ **NOTE: For more information that is related to the VMware ESXi installation on Dell EMC PowerEdge servers, go to Dell Virtualization.**

Virtualization videos for Dell EMC PowerEdge servers

All the supported virtualization videos for Dell EMC PowerEdge servers are available in the Supported Operating Systems for Dell PowerEdge servers playlist.

Table 2. Virtualization videos for Dell EMC PowerEdge servers

Video title	Links
Downloading the Dell EMC customized ESXi image from support site	www.youtube.com/watch?v=YnVxtkAkYTI
Downloading Dell EMC customized ESXi image from VMware website	www.youtube.com/watch?v=TnWyuyxuk5k
OS Deployment (VMware ESXi)—Installing Using CD/DVD	www.youtube.com/watch?v=-EbufUS86zA
Enabling and Configuring Fault Resilient Memory on Dell EMC PowerEdge servers	www.youtube.com/watch?v=retSh-XlsK0
OS Deployment (VMware ESXi)—Installing on BOSS S1 device	www.youtube.com/watch?v=TB1loXpFFME
OS Deployment (VMware ESXi)—Installing on IDSDM	www.youtube.com/watch?v=EC-Xntg5mgw
To enable UEFI Secure Boot on VMware ESXi for Dell's 13th generation of PowerEdge servers ⓘ **NOTE: This video is applicable for VMware ESXi 6.5.x and VMware ESXi 6.7.**	www.youtube.com/watch?v=Ll9qlF9qV9I
To enable UEFI Secure Boot on VMware ESXi for Dell EMC's 14th generation of PowerEdge servers ⓘ **NOTE: This video is applicable for VMware ESXi 6.5.x and VMware ESXi 6.7.**	www.youtube.com/watch?v=ZZB_XyV0enY

Documentation resources

This section provides information about the documentation resources for your server.

Table 3. Additional documentation resources for your server

Task	Document	Location
Setting up your server	For information about installing the server into a rack, see the Rack documentation included with your rack solution or the *Getting*	www.dell.com/poweredgemanuals

Table 3. Additional documentation resources for your server (continued)

Task	Document	Location
	Started Guide that is shipped with your server.	
	For information about turning on the server and the technical specifications of your server, see the *Getting Started Guide* that is shipped with your server.	www.dell.com/poweredgemanuals
Configuring your server	For information about the iDRAC features, configuring and logging in to iDRAC, and managing your server remotely, see the *Integrated Dell Remote Access Configuration Tool User's Guide*	www.dell.com/idracmanuals
	For information about installing the operating system, see operating system documentation.	www.dell.com/operatingsystemmanuals
	For information about understanding Remote Access Controller Admin (RACADM) subcommands and supported RACADM interfaces, see the *iDRAC RACADM CLI Guide*.	www.dell.com/idracmanuals
	For information about updating drivers and firmware, see Download drivers and firmware topic in this document.	www.dell.com/support/drivers
Managing your server	For information about server management software offered by Dell EMC, see the Dell EMC *Systems Management Overview Guide*.	www.dell.com/openmanagemanuals
	For information about setting up, using, and troubleshooting OpenManage, see the Dell EMC *OpenManage Server Administrator User's Guide*.	www.dell.com/openmanagemanuals
	For information about installing, using, and troubleshooting Dell EMC OpenManage Essentials, go to *www.dell.com/ openmanagemanuals* > *OpenManage Essentials User's Guide*.	www.dell.com/openmanagemanuals
	For information about installing and using Dell SupportAssist, see the Dell EMC *SupportAssist Enterprise User's Guide*.	www.dell.com/serviceabilitytools
	For understanding the features of Dell EMC Lifecycle Controller (LC), see the *Lifecycle Controller User's Guide*.	www.dell.com/idracmanuals
	For information about partner programs enterprise systems	www.dell.com/esmmanuals

Table 3. Additional documentation resources for your server (continued)

Task	Document	Location
	management, see the *OpenManage Connections Enterprise Systems Management* documents.	
	For information about viewing inventory, performing configuration, and monitoring tasks, remotely turning on or off servers, and enabling alerts for events on servers and components using the Dell EMC Chassis Management Controller (CMC), see the *Chassis Management Controller User's Guide* .	www.dell.com/esmmanuals
Working with the Dell EMC PowerEdge RAID controllers	For information about understanding the features of the Dell EMC PowerEdge RAID controllers (PERC) and deploying the PERC cards, see the Storage controller documentation.	www.dell.com/storagecontrollermanuals
Understanding event and error messages	For information about checking the event and error messages generated by the system firmware and agents that monitor server components, see the Dell EMC *Event and Error Message Reference Guide for 14th Generation Dell EMC PowerEdge Servers* .	www.dell.com/openmanagemanuals
Troubleshooting your system	For information about identifying and troubleshooting the PowerEdge server issues, see the *PowerEdge Servers Troubleshooting Guide.*	www.dell.com/poweredgemanuals
Configuring Dell PowerEdge VRTX shared storage for VMware vSphere environment	For information on configuring Dell PowerEdge VRTX shared storage for VMware vSphere environment, see Dell EMC White papers.	Configuring Dell PowerEdge VRTX shared storage for VMware vSphere Environment

Download drivers and firmware

Dell EMC recommends that you download and install the latest BIOS, drivers, and systems management firmware on your system.

Ensure that you clear the web browser cache before downloading the drivers and firmware.

1. Go to Dell.com/support/drivers.
2. Under the **Drivers & Downloads** section, type the Service Tag of your system in the **Enter a Service Tag** box, and then click **Submit**.
3. Click **Drivers & Downloads**.
   The drivers that are applicable to your selection are displayed.
4. Download the drivers to a USB drive, CD, or DVD.

Documentation feedback

You can rate the documentation or write your feedback on any of our Dell EMC documentation pages and click **Send Feedback** to send your feedback.

Locating Service Tag of your system

Your system is identified by a unique Express Service Code and Service Tag number. The Express Service Code and Service Tag are found on the front or back of the system by pulling out the information tag. Alternatively, the information may be on a sticker on the chassis of the system. This information is used by Dell EMC to route support calls to the appropriate personnel.