

VMware vSphere 6.7.x on Dell PowerEdge Systems

Release Notes

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.

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Release summary

VMware vSphere 6.7.x includes the ESXi 6.7.x hypervisor and is managed by vCenter Server 6.7.x. The current release of VMware vSphere incorporates feature upgrades, new hardware, feature support, and bug fixes that enhance the virtualization experience in VMware environments.

 **NOTE:** The issues that are listed in this document are applicable to Dell EMC servers with VMware vSphere 6.7.x installed.

Topics:

- [Version](#)
- [Release date](#)
- [Priority and recommendations](#)

Version

6.7.x

Release date

April 2021

Priority and recommendations

RECOMMENDED: Dell EMC recommends applying this update during your next scheduled update cycle. The update contains feature enhancements or changes that will help keep your system software current and compatible with other system modules, including firmware, BIOS, drivers, and software.

Compatibility

Topics:

- System configuration requirements

System configuration requirements

Memory

The following table lists the system memory requirements for VMware vSphere 6.7.x on Dell PowerEdge servers.

Table 1. Memory requirements for VMware vSphere 6.7.x

Memory	Size
Minimum recommended system memory	1.5 GB per logical CPU
Maximum certified system memory	16 TB

New and enhanced in VMware vSphere 6.7.x release

VMware vSphere 6.7.x includes the ESXi 6.7.x hypervisor and is managed by vCenter Server 6.7.x. The current release of VMware vSphere incorporates feature upgrades, new hardware, feature support, and bug fixes that enhance the virtualization experience in VMware environments.

NOTE: The issues that are listed in this document are only applicable for Dell EMC servers with VMware vSphere 6.7.x installed.

Following are some of the important features that are included with vSphere 6.7.x:

- TPM 2.0 support for ESXi hosts, and virtual TPM (vTPM) 2.0 for VMs
- Support for Microsoft virtualization-based security
- User interface updates—Advances in the functionality of the vSphere Client
- Multiple Syslog targets

NOTE: For more information on what is new and enhanced in this release, see www.vmware.com/vmware-whats-new-in-vsphere-whitepaper.pdf.

Topics:

- [Installation and upgrade instructions](#)

Installation and upgrade instructions

For information about installing ESXi 6.7.x or upgrading from a previous version of ESXi, see the version specific VMware ESXi 6.7.x for Dell PowerEdge systems Installation Instructions and Important Information Guide at www.dell.com/virtualizationsolutions.

For the list of enhancements and bug fixes, see the version-specific VMware vSphere Release Notes at www.support.vmware.com.


Fixes

The following issue is fixed in ESXi 6.7 U3:

Description: On Dell EMC yx4x PowerEdge R7415 and R6415 servers with AMD processors, hot-add or hot-replace of NVMe devices did not work at times. A warning message was displayed in the VMkernel log similar to the following:

```
WARNING: PCIEHP: 850: 0000:c0:03.4: hotplug slot:0xb7 Inserted adapter  
seems broken, or removed (slotStatusPDS: 1). Aborting hot-add operation.
```

**Tracking
Number:** 122715

 **NOTE:** The PowerEdge servers are represented using the generic naming convention. To identify the range of server models, see [Identifying the series of your Dell EMC PowerEdge servers](#).

Known issues

Topics:

- Console fails to respond during EULA acceptance window with iSM SupportAssist collection
- ESXi nodes is offline post I/O module replacement
- The model name for the Dell PowerEdge RAID Controller H350i MM is displayed incorrectly
- Fan redundancy status is incorrect
- iDRAC IPv6 IP address is blank
- NVIDIA GPU name is displayed incorrectly
- The model name for the Dell PowerEdge RAID Controller H350 is displayed incorrectly
- Dell HBA350i MX card is listed as Dell HBA355i MX in Dell EMC PowerEdge MX750c
- The `esxcli` or `localcli` commands fail to support receive side scaling (RSS)
- The UID information for the Dell PowerEdge RAID Controller H310 is displayed incorrectly
- Operating system takes more time to complete boot when Intel DCPMM is configured in the interleaved app-direct mode
- The health status of the SD cards are not updated under the Hardware Health tab
- Network connectivity is lost when virtual machines configured with Virtual Guest Tagging (VGT) are migrated to another ESXi host
- The Hardware Health tab of the vCenter Web Client does not display any information when a drive is removed
- Status of the NVMe devices configured as a host cache device is not updated after surprise removal
- The NIC description is incorrect
- FCoE adapter speed is displayed as 0
- vSAN nodes may experience a PSOD during log collection under heavy load
- The `vmkernel` log displays a warning
- The `vmkernel` log displays an invalid support message on multiple PCIe devices
- PSOD is not seen in the host when the NMI option is selected in the iDRAC UI
- Auto-negotiation value shown as false though it was set with 100G
- The hardware label for PCIe devices is shown as Not appropriate
- Multiple `sfc` core files are generated on ESXi 6.7 U1 host after installing OM and iSM
- Virtual machines report guest data consistency errors after disk extend operation
- SR-IOV functionality is not available for QLogic 41xxx adapter
- iDRAC web interface shows incorrect status with ESXi inbox native driver
- Dell EMC PowerEdge Express Flash NVMe PCIe SSD device is not detected during hot-plug operation
- ESXi OS installed on IDSDM fails to boot when USB 3.0 is enabled
- While logging into OMSA, vSAN cluster experiences Connection Error
- Dell EMC customized VMware ESXi 6.7 A00 installer fails to boot from PXE infrastructure
- PCI devices status is listed as Unknown on vCenter server
- iDRAC does not report the operating system information
- FcoE, iSCSI, RoCE functionality are not available for BCM5741x and QL411xx in ESXi 6.7
- Unsafe shutdowns counter of an NVMe device is incremented for both soft and abrupt shutdowns

Console fails to respond during EULA acceptance window with iSM SupportAssist collection

Description

With iSM 4.3.0 installed on ESXi 6.7 U3, SupportAssist logs can be downloaded from CLI on ESXi host. For collecting the logs, invoke command `/opt/dell/srvadmin/iSM/bin/Invoke-SupportAssistCollection -u` on the shell, EULA is displayed and has to be accepted to run the command. During browsing of EULA content on the shell, the console stops responding if backspace is entered.

Workaround Press Ctrl + U for the cursor to return to its original position.

Systems affected Dell PowerEdge Systems with ESXi 6.7 U3, iDRAC Service Module 4.3.0 and later.

Applies to ESXi 6.7.x

Tracking number 228951

ESXi nodes is offline post I/O module replacement

Description Post I/O module replacement, ESXi nodes in Dell PowerEdge MX7000 configured to use the replaced I/O module for management traffic go offline or are disconnected from the vCenter server.

Workaround If the host goes offline, enter the Direct Console User Interface (DCUI) on the affected host and run **Restart Management Network**, and then enter Troubleshooting Options and run **Restart Management Agents** to reconnect the host to the vCenter server.

Systems affected Dell PowerEdge MX740c or MX840c servers with IOMs MX9116n and MX7116n.

Applies to ESXi 6.7.x

Tracking number 234332

The model name for the Dell PowerEdge RAID Controller H350i MM is displayed incorrectly

Description For ESXi host with PERC HBA350i MM, the vCenter Server Web Client or ESXi host web client lists the storage controller as Fusion-MPT 12GSAS/PCIe Secure SAS38xx. This is cosmetic issue and can be ignored.

Workaround Refer the output of command **perccli** or check the iDRAC page.

Systems affected All Dell EMC PowerEdge servers with ESXi and PERC HBA350i MM.

Applies to ESXi 6.7.x

Tracking number 222541

Fan redundancy status is incorrect

Description For ESXi host with system fans active and running, the vCenter Server Web Client or ESXi Host Web Client lists the fan redundancy as redundancy lost. This is a cosmetic issue and can be ignored. Refer to the fan redundancy status shown in the iDRAC GUI to observe the correct status.

Workaround Not applicable

Systems affected All Dell EMC PowerEdge Servers with ESXi

Applies to ESXi 6.7.x

Tracking number 21953

iDRAC IPv6 IP address is blank

Description For ESXi hosts, the BMC (iDRAC) IPv6 IP address is blank for the below commands:

```
esxcli hardware ipmi bmc get
localcli hardware ipmi bmc get
```

Workaround Use the iDRAC page or use **ipmitool** to get the BMC (iDRAC) IPv6 IP address with ESXi host.

Systems affected All Dell EMC PowerEdge servers with ESXi.

Applies to ESXi 6.7.x

Tracking number 214958

NVIDIA GPU name is displayed incorrectly

Description For ESXi host with NVIDIA A2 GPU, the vCenter Server Web Client or ESXi Host Web Client lists the GPU as NVIDIA A16 or NVIDIA A2. This is cosmetic issue and can be ignored.

Workaround Refer the output of command **nvidia-smi** or check the iDRAC page.

Systems affected All Dell EMC PowerEdge Servers with ESXi and GPU.

Applies to ESXi 6.7.x

Tracking number 219974

The model name for the Dell PowerEdge RAID Controller H350 is displayed incorrectly

Description In Dell EMC PowerEdge systems with ESXi 7.0.x, the installed PERC H350 Adapter model name is displayed as **MegaRAID 12GSAS/PCIe Secure SAS38xx** instead of **PERC H350 Adapter**. This issue is a cosmetic issue and there is no functionality loss.

Systems affected All Dell EMC PowerEdge servers with ESXi 7.0.x that support PERC H350 Adapter.

Applies to ESXi 6.7.x

Tracking number 207940

Dell HBA350i MX card is listed as Dell HBA355i MX in Dell EMC PowerEdge MX750c

Description The description for the Dell HBA350i MX card is listed as Dell HBA355i MX on the Dell EMC PowerEdge MX750c server with the ESXi 6.7 U3 operating system.

Workaround None

Systems affected Dell EMC PowerEdge MX750c

Applies to ESXi 6.7.x only

Tracking number 178489

The esxcli or localcli commands fail to support receive side scaling (RSS)

Description On an ESXi host with Mellanox devices, the esxcli or localcli utilities displays the receive side scaling (RSS) as UA, though the underlying NIC supports and uses RSS by default. The command **esxcli network nic queue loadbalancer list** displays UA for RSS.

Workaround None

Systems affected All Dell EMC PowerEdge servers

Applies to ESXi 6.7.x only

Tracking number 157330

The UID information for the Dell PowerEdge RAID Controller H310 is displayed incorrectly

Description The UID information for the Dell PowerEdge RAID Controller H310 is displayed incorrectly as **unknown.vmhba3** when the command **localcli storage core adapter list** is queried. This issue is a cosmetic issue and can be ignored.

Systems affected All Dell EMC PowerEdge servers that support PERC H310 controller.

Applies to ESXi 6.x

Tracking number 117210

Operating system takes more time to complete boot when Intel DCPMM is configured in the interleaved app-direct mode

Description Dell EMC PowerEdge servers with the VMware ESXi operating system installed take more time to complete boot when Intel® Optane™ DC Persistent Memory (DCPMM) is configured in the interleaved app-direct mode. The time taken to complete the boot depends on the capacity, configuration, and the number of sockets on the server. Messages such as: **Attempt to allocate zero bytes, allocating 1 byte** from the VMkernel log can be ignored. A similar issue is documented when the VMware ESXi operating system takes a longer time to complete boot when DIMMs are configured in non-interleaved sets. For more information, see [Dell EMC DCPMM User's Guide](#).

Systems affected Dell EMC PowerEdge servers that support Persistent Memory (PMEM)

Applies to ESXi 6.7.x

Tracking number 174273

The health status of the SD cards are not updated under the Hardware Health tab

Description The health status of the SD card from the Dell Internal Dual SD Module (IDSMD) is displayed as **Unknown** on the respective **Hardware Health** tabs of the VMware ESXi web client and the vCenter web client.

Workaround The iDRAC page displays the status of the IDSMD SD cards correctly.

Systems affected All Dell EMC PowerEdge servers.

Applies to ESXi 6.7.x

Tracking number 101450

Network connectivity is lost when virtual machines configured with Virtual Guest Tagging (VGT) are migrated to another ESXi host

Description	When virtual machines that are configured with 802.1q VLAN tagging are migrated to another ESXi host, the network connectivity is lost. The network connectivity is reestablished within a few minutes without any user intervention.
Cause	VMware VMotion is unable to send a Reverse Address Resolution Protocol (RARP) for the tagged guest virtual machine. For more information VMware Knowledge Base article 2113783 .
Workaround	Force an Address Resolution Protocol (ARP) lookup request on the tagged network which generates an egress traffic that is started from the new switch port and update the switch of the new location. Forcing an ARP lookup request can be accomplished by performing a ping to another destination on the network from inside the guest operating system running in the virtual machine.
Systems affected	All Dell EMC PowerEdge servers.
Applies to	ESXi 6.7.x
Tracking number	173609

The Hardware Health tab of the vCenter Web Client does not display any information when a drive is removed

Description	The Hardware Health tab does not generate alerts in the vCenter Web Client when a drive is removed from the ESXi host or when a RAID storage array is modified.
Workaround	The drive status of the ESXi host is marked as Deassert under the Hardware Health tab when it is removed. The status of the drive removal can also be obtained using the percli storelib library in the ESXi host shell.
Systems affected	All Dell EMC PowerEdge servers
Applies to	ESXi 6.7.x
Tracking number	81455

Status of the NVMe devices configured as a host cache device is not updated after surprise removal

Description	When surprise removal is performed on NVMe devices, the status of the drives that are configured as a host cache device is not updated and listed as Available when the following esxcli or localcli commands are queried:
--------------------	---

```
esxcli storage core device list
esxcli storage nmp path list
```

Cause	This issue is an expected behavior as the surprise removal of devices that are configured as a host cache device is unsupported.
Systems affected	All Dell EMC PowerEdge servers.
Applies to	ESXi 6.7.x
Tracking number	171186

Tracking number 142775

The vmkernel log displays a warning

Description On the Dell EMC PowerEdge servers with AMD EPYC processors , the vmkernel log displays a following warning message:

```
WARNING: AMDIOMMU: 222: completion wait bit is not set after a while!
```

These messages are displayed on vSAN Cluster nodes.

Workaround These messages can be ignored because there is no functionality loss with these error messages logged in vmkernel.log file.

Systems affected yx5x AMD Dell EMC PowerEdge servers

Applies to ESXi 6.7.x

Tracking number 142440

The vmkernel log displays an invalid support message on multiple PCIe devices

Description On Dell EMC PowerEdge servers with AMD Rome processors connected to multiple PCIe devices, the vmkernel log displays the following message for all the PCIe devices:

```
invalid supported max link speed
```

These messages are displayed only when Dell iSM or Dell OMSA is installed on the system, or when wbem is enabled.

Workaround Enable the wbem, and then disable the provider vmw_pci to prevent these repeated error messages logging in vmkernel.log file. For more information about enable/disable wbem, see the VMware KB [1025757](#). For more information about disabling provider vwm_pci, see the VMware KB [2053715](#).

Systems affected yx5x PowerEdge servers with AMD processors

Applies to ESXi 6.7.x

Tracking number 114799

PSOD is not seen in the host when the NMI option is selected in the iDRAC UI

Description In the iDRAC UI of Dell EMC PowerEdge servers with AMD EPYC processors, below the **Configuration** tab, select the **Power Control** option, and then select **NMI(Non-Masing Interrupt)**. On selecting the option NMI on the idrac page, the server crashes the PSOD. However, the PSOD is not seen in the yx5x PowerEdge servers with AMD EPYC processors due to a bug in AMD IOMMU.

Workaround Disable IOMMU in the BIOS.

Systems affected yx5x PowerEdge servers with AMD processors

Applies to ESXi 6.7.x

Tracking number 132871

Auto-negotiation value shown as false though it was set with 100G

Description	With vSphere web client, auto-negotiation value is shown as false although the configure speed was set to 100G.
Workaround	Use the Mellanox mlxlink tool available at www.mellanox.com/page/management_tools to read the link speed value.
Systems affected	All Dell EMC PowerEdge servers
Applies to	ESXi 6.7.x
Tracking number	114799

The hardware label for PCIe devices is shown as Not appropriate

Description	On Dell EMC PowerEdge servers with AMD processors, the hardware label for PCIe devices in ESXi Direct Control User Interface (DCUI) is shown as N/A. But the vCenter Server and other esxcli commands show the appropriate values.
Workaround	There is no workaround. This issue can be ignored as it is a cosmetic issue, and there is no functionality loss. For more information about the PCIe device info, use vCenter Server or the esxcli command: esxcfg-nics -l .
Systems affected	Dell EMC PowerEdge servers with AMD processors.
Applies to	ESXi 6.7.x and ESXi 6.5 U3
Tracking number	137055

Multiple sfcB core files are generated on ESXi 6.7 U1 host after installing OM and iSM

Description	On Dell EMC PowerEdge servers, sfcB core files are generated in <code>/var/core</code> (for example, <code>sfcB-ProviderMa-zdump.000</code>) after installing OpenManage (OM) and iDRAC Service Module (iSM) vib.
Workaround	This issue can be ignored because there is no functionality loss.
Systems affected	All Dell EMC PowerEdge servers
Applies to	ESXi 6.7 U1
Tracking number	118018

Virtual machines report guest data consistency errors after disk extend operation

Description	Virtual machines running on VMware vSAN 6.6 and later report guest data consistency errors following a disk extend operation. This is a rare occurrence, requiring specific conditions to be met.
Workaround	VMware recommends the following workaround:

1. Log in to the ESXi host through SSH with username as root.
2. To set the Inplace Expansion value to 0, run the following command:

```
# esxcfg-advcfg -s 0 /VSAN/ClomEnableInplaceExpansion
```

3. To confirm that the value is set to 0, run the following command:

```
# esxcfg-advcfg -g /VSAN/ClomEnableInplaceExpansion
```

4. Repeat this process on all ESXi hosts in the vSAN cluster.
For more information, see the VMware KB article [58715](#).

Systems affected All Dell EMC PowerEdge servers

Applies to ESXi 6.7.x

Tracking number NA

SR-IOV functionality is not available for QLogic 41xxx adapter

Description If the inbox native driver **qedentv-2.0.6.4-8**, is installed on ESXi 6.7, Virtual Functions (VFs) cannot be enabled on QLogic 41xxx adapter. Therefore, the SR-IOV functionality is not available.

Workaround There is no workaround.

Systems affected All Dell EMC PowerEdge servers

Applies to ESXi 6.7.x

Tracking number 99976

iDRAC web interface shows incorrect status with ESXi inbox native driver

Description If the ESXi inbox native driver is installed, iDRAC web interface displays incorrect status for network card details such as **OS Driver State** and **Family Driver version**.

Workaround This issue can be ignored because there is no functionality loss.

For more information about the port link status, use vCenter Server or the esxcli command: **esxcfg-nics -l**.

Systems affected All Dell EMC PowerEdge servers

Applies to ESXi 6.7.x

Tracking number 86600

Dell EMC PowerEdge Express Flash NVMe PCIe SSD device is not detected during hot-plug operation

Description When the Express Flash NVMe PCIe SSD namespace is set as Offline and the hot-plug operation is performed in the same slot, the SSD is not initialized and detected.

Workaround Perform one of the following steps:

- If a different drive slot is available, reconnect the drive to the available drive slot.
- Restart the **sfcdb-watchdog** service, and reinsert the drive.

Systems affected All Dell EMC PowerEdge servers

Applies to ESXi 6.7.x

Tracking number 100866

ESXi OS installed on IDSDM fails to boot when USB 3.0 is enabled

Description On rebooting the Dell EMC PowerEdge R530, R430, and T430 servers, the ESXi OS installed on IDSDM does not boot when the USB 3.0 controller is enabled on the server BIOS.

Workaround Disable the **vmkusb** module on the affected servers by running the command:

```
#esxcli system module set -m=vmkusb -e=FALSE
```

For more information, see VMware KB [2147650](#).

Systems affected Dell EMC PowerEdge R530, R430, and T430 servers

Applies to ESXi 6.7.x

Tracking number 93275

While logging into OMSA, vSAN cluster experiences Connection Error

Description While logging into OMSA, the vSAN cluster, under heavy utilization, experiences a Connection Error.

Workaround Restart the WSMAN service by running the following command:

```
#/etc/init.d/wsman restart
```

Systems affected All Dell EMC PowerEdge servers

Applies to

- ESXi 6.7.x
- openwsmand v2.2.1

Tracking number 101360

Dell EMC customized VMware ESXi 6.7 A00 installer fails to boot from PXE infrastructure

Description Dell EMC customized ESXi 6.7 A00 installer fails to boot from PXE infrastructure either in the UEFI or BIOS boot modes and displays the following error message:

```
Error loading DelleMC_.v00 ... Fatal Error: 24 (TFTP error)
```

Workaround Go to **TFTP/Web server** and rename the ESXi 6.7 A00 file name from **DelleMC_.v00** to **dellemc_.v00** or download and install the ESXi 6.7.x A01 image available at <https://www.dell.com/support>.

Systems affected All Dell EMC PowerEdge servers

Applies to ESXi 6.7.x

Tracking number 100451

PCI devices status is listed as Unknown on vCenter server

Description	On vCenter Server installed on an ESXi host, the status of some of the devices under Hardware Status > PCI device is displayed as Unknown .
Workaround	This issue can be ignored because there is no functionality loss.
Systems affected	All Dell EMC PowerEdge servers
Applies to	ESXi 6.7.x
Tracking number	79601 and 87243

iDRAC does not report the operating system information

Description	PowerEdge servers with VMware ESXi 6.7 installed do not report the operating system information that is installed in iDRAC.
Workaround	This is an expected behavior and it is recommended to set it manually by the following steps: <ol style="list-style-type: none">1. Run the command: vmware -vl The output is: <OS Name> build <OS Version>.2. Run the command:<pre>esxcli hardware ipmi bmc set -n <OS Name> -v <OS Version></pre>
Systems affected	All Dell EMC PowerEdge servers
Applies to	ESXi 6.7.x
Tracking number	59663

FcoE, iSCSI, RoCE functionality are not available for BCM5741x and QL411xx in ESXi 6.7

Description	In ESXi 6.7 OS, FcoE, iSCSI and RoCE functionality are not available for BCM5741x and QL411xx family devices, due to the unavailability of bnxtrc, qedf, scsi-qedil, and qedrntv drivers.
Workaround	This is an expected behavior with ESXi 6.7 A00 build because these drivers are not available.
Systems affected	All Dell EMC PowerEdge servers
Applies to	ESXi 6.7.x
Tracking number	87053

Unsafe shutdowns counter of an NVMe device is incremented for both soft and abrupt shutdowns

Description	Unsafe shutdowns counter of a NVMe device is incremented for both soft and abrupt shutdowns.
Workaround	This issue can be ignored because there is no data loss or corruption.
Systems affected	All Dell EMC PowerEdge servers

Applies to ESXi 6.7.x.
Tracking number 86600

Resources and support

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

Table 2. 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 <i>Getting Started Guide</i> that is shipped with your server.	https://www.dell.com/poweredgemanuals
	For information about turning on the server and the technical specifications of your server, see the <i>Getting Started Guide</i> that is shipped with your server.	https://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 <i>Integrated Dell Remote Access Configuration Tool User's Guide</i> .	https://www.dell.com/idracmanuals
	For information about installing the operating system, see operating system documentation.	https://www.dell.com/operatingsystemmanuals
	For information about understanding Remote Access Controller Admin (RACADM) subcommands and supported RACADM interfaces, see the <i>iDRAC RACADM CLI Guide</i> .	https://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, see the <i>Dell Systems Management Overview Guide</i> .	https://www.dell.com/openmanagemanuals
	For information about setting up, using, and troubleshooting OpenManage, see the <i>Dell OpenManage Server Administrator User's Guide</i> .	https://www.dell.com/openmanagemanuals
	For information about installing, using, and troubleshooting Dell OpenManage Essentials, see the Dell www.dell.com/openmanagemanuals >	https://www.dell.com/openmanagemanuals

Table 2. Additional documentation resources for your server (continued)

Task	Document	Location
	<i>OpenManage Essentials User's Guide</i> .	
	For information about installing and using Dell SupportAssist, see the <i>Dell SupportAssist Enterprise User's Guide</i> .	https://www.dell.com/serviceabilitytools
	For understanding the features of Dell Lifecycle Controller (LC), see the <i>Lifecycle Controller User's Guide</i> .	https://www.dell.com/idracmanuals
	For information about partner programs enterprise systems management, see the <i>OpenManage Connections Enterprise Systems Management</i> documents.	https://www.dell.com/esmmanuals
	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 Chassis Management Controller (CMC), see the <i>Chassis Management Controller User's Guide</i> .	https://www.dell.com/esmmanuals
Working with the Dell PowerEdge RAID controllers	For information about understanding the features of the Dell 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 Event and Error Messages Reference Guide.	www.dell.com/openmanagemanuals
Troubleshooting your system	For information about identifying and troubleshooting the PowerEdge server issues, see the <i>PowerEdge Servers Troubleshooting Guide</i> .	https://www.dell.com/poweredgemanuals

Topics:

- [Related information for virtualization solutions](#)
- [Documentation resources](#)
- [Identifying the series of your Dell EMC PowerEdge servers](#)
- [Download drivers and firmware](#)
- [Documentation feedback](#)

Related information for virtualization solutions

Table 3. Related information for virtualization solutions

If you need information about	See
Dell VMware documentation	www.dell.com/virtualizationsolutions
OpenManage documentation	https://www.dell.com/openmanagemanuals
PowerEdge documentation	https://www.dell.com/poweredgemanuals
Basic configuration information for running ESXi on a Dell PowerEdge server	Getting Started Guide at www.dell.com/virtualizationsolutions
<ul style="list-style-type: none"> Information about downloading, installing, and configuring ESXi Supported hardware configurations for running ESXi on a Dell 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 PowerEdge Servers Compatibility Matrix at www.dell.com/virtualizationsolutions
PowerEdge and PowerVault compatibility information for running ESXi	VMware vSphere on Dell PowerEdge Servers Compatibility Matrix at www.dell.com/virtualizationsolutions
Known issues and resolutions	VMware vSphere 6.7.x on Dell PowerEdge Server Release Notes at www.dell.com/virtualizationsolutions
ESXi ISO image customization information	VMware ESXi on Dell PowerEdge Systems Image Customization Information at www.dell.com/virtualizationsolutions
UEFI Boot order management utility in VMware ESXi 7.0	www.dell.com/support/article/en-us/sln321019
Dell EMC Add-on for VMware vSphere 7.0	www.dell.com/support/article/en-us/sln320956
Dell EMC ESXi 7.0 Quick Boot compatibility guide	www.dell.com/support/article/en-us/sln320746
VMware vSphere Life Cycle Manager vLCM and Dell EMC integration	downloads.dell.com/manuals/all-products/esuprt_software_int/esuprt_software_virtualization_solutions/vmware-esxi-7x_white-papers3_en-us.pdf
PVRDMA Deployment and Configuration of QLogic CNA devices in VMware ESXi	downloads.dell.com/manuals/common/vmware_esxi_6x_7x_whitepaper6_en-us.pdf
Self-Encrypting Drives in Dell EMC PowerEdge servers with VMware vSphere	downloads.dell.com/manuals/common/vmware_esxi_6x_7x_whitepaper7_en-us.pdf
NVMe Hot-Plug on Dell EMC PowerEdge servers running VMware vSphere or vSAN	downloads.dell.com/manuals/common/vmware_esxi_6x_7x_whitepaper9_en-us.pdf
Upgrading to Dell EMC vSphere and vSAN version 7.0	downloads.dell.com/manuals/all-products/esuprt_software_int/esuprt_software_virtualization_solutions/vmware-esxi-7x_white-papers8_en-us.pdf
Firmware catalog for Dell EMC's vSAN Ready Nodes	https://www.dell.com/support/kbdoc/en-us/000183111/firmware-catalog-for-dellemc-s-vsant-ready-nodes
Firmware catalog for Dell customized VMware ESXi images	https://www.dell.com/support/kbdoc/en-in/000126599/firmware-catalog-for-dell-customized-vmware-esxi-images

Technical support resources


- vmware.com/support
- www.dell.com/support/home
- Dell.com/services

Discussion forums

- Communities.vmware.com/community/vmttn
- [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 PowerEdge servers, go to [Dell Virtualization](#).

Virtualization videos for Dell PowerEdge servers

All the supported virtualization videos for Dell PowerEdge servers are available in the [Supported Operating Systems for Dell PowerEdge servers playlist](#).

Table 4. Virtualization videos for Dell PowerEdge servers

Video title	Links
Downloading the Dell customized ESXi image from support site	www.youtube.com/watch?v=YnVxtkAkYTI
Downloading Dell customized ESXi image from VMware website	www.youtube.com/watch?v=TnWyuyxuk5k
Operating system Deployment (VMware ESXi)—Installing Using CD/DVD	www.youtube.com/watch?v=-EbufUS86zA
Enabling and Configuring Fault Resilient Memory on Dell PowerEdge servers	www.youtube.com/watch?v=retSh-XIsK0
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 EMC's yx3x PowerEdge servers  NOTE: This video is applicable to VMware ESXi 6.5.x and later.	www.youtube.com/watch?v=LI9qIF9qV9I
To enable UEFI Secure Boot on VMware ESXi for Dell EMC's yx4x PowerEdge servers  NOTE: This video is applicable to VMware ESXi 6.5.x and later.	www.youtube.com/watch?v=ZZB_XyV0enY

Documentation resources

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

Table 5. Additional documentation resources for your server

Task	Document	Location
VMware vSphere 6.7.x Release Notes	Release Notes posted on the VMware website that covers known issues, compatibility information and new features in this release.	VMware vSphere 6.7 Release Notes
Setting up your server	For information about installing the server into a rack, see the rack documentation included with your rack solution or the <i>Getting Started Guide</i> that is shipped with your server.	https://www.dell.com/poweredgemanuals
	For information about turning on the server and the technical specifications of your server, see the <i>Getting Started Guide</i> that is shipped with your server.	https://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 <i>Integrated Dell Remote Access Configuration Tool User's Guide</i> .	https://www.dell.com/idracmanuals
	For information about installing the operating system, see operating system documentation.	https://www.dell.com/operatingsystemmanuals
	For information about understanding Remote Access Controller Admin (RACADM) subcommands and supported RACADM interfaces, see the <i>iDRAC RACADM CLI Guide</i> .	https://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, see the <i>Dell Systems Management Overview Guide</i> .	https://www.dell.com/openmanagemanuals
	For information about setting up, using, and troubleshooting OpenManage, see the <i>Dell OpenManage Server Administrator User's Guide</i> .	https://www.dell.com/openmanagemanuals
	For information about installing, using, and troubleshooting Dell OpenManage Essentials, go to www.dell.com/	https://www.dell.com/openmanagemanuals

Table 5. Additional documentation resources for your server (continued)

Task	Document	Location
	openmanagemanuals > <i>OpenManage Essentials User's Guide</i> .	
	For information about installing and using Dell SupportAssist, see the <i>Dell SupportAssist Enterprise User's Guide</i> .	https://www.dell.com/serviceabilitytools
	For understanding the features of Dell Lifecycle Controller (LC), see the <i>Lifecycle Controller User's Guide</i> .	https://www.dell.com/idracmanuals
	For information about partner programs enterprise systems management, see the <i>OpenManage Connections Enterprise Systems Management</i> documents.	https://www.dell.com/esmmanuals
	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 Chassis Management Controller (CMC), see the <i>Chassis Management Controller User's Guide</i> .	https://www.dell.com/esmmanuals
Working with the Dell PowerEdge RAID controllers	For information about understanding the features of the Dell 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 Event and Error Messages Reference Guide.	www.dell.com/openmanagemanuals
Troubleshooting your system	For information about identifying and troubleshooting the PowerEdge server issues, see the <i>PowerEdge Servers Troubleshooting Guide</i> .	https://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

Identifying the series of your Dell EMC PowerEdge servers

The PowerEdge series of servers from Dell EMC are divided into different categories based on their configuration. They are referred as YX2X, YX3X, YX4X, YX4XX, or YX5XX series of servers. The structure of the naming convention is described below:

The letter Y denotes the character in the server model number. The character denotes the form factor of the server. The form factors are listed below:

- C- Cloud
- F- Flexible
- M or MX- Modular
- R- Rack
- T- Tower

The letter X denotes the numbers in the server model number. The number denotes multiple characteristics about the server. They are listed as follows:

- The first digit (X) denotes the value stream or class of the server.
 - 1-5—iDRAC basic
 - 6-9—iDRAC Express
- The second digit denotes the series of the server. It is retained in the server naming convention and does not replace the letter X.
 - 0—series 10
 - 1—series 11
 - 2—series 12
 - 3—series 13
 - 4—series 14
 - 5—series 15
- The last digit (X) always denotes the make of the processor as described below:
 - 0-Intel
 - 5-AMD

NOTE: For servers that use an AMD processor, the model number is made up of four digits instead of three. The third digit (X) denotes the number of processor sockets that the series of server supports.

- 1—one socket server
- 2—two socket server

Table 6. PowerEdge servers naming convention and examples

YX3X servers	YX4X systems	YX4XX systems	YX5XX
PowerEdge M630	PowerEdge M640	PowerEdge R6415	PowerEdge R6515
PowerEdge M830	PowerEdge R440	PowerEdge R7415	PowerEdge R7515
PowerEdge T130	PowerEdge R540	PowerEdge R7425	PowerEdge R6525

Download drivers and firmware

It is recommended 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 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** text box, and then click the right arrow button.

NOTE: If you do not have the Service Tag, click **Detect PC** to allow the system to automatically detect your Service Tag.

3. Click **Drivers & Downloads**.

A list of applicable downloads is displayed.

4. Download the drivers or firmware to a USB drive, CD, or DVD.

Documentation feedback

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

Contacting Dell EMC

Dell 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 for sales, technical assistance, or customer service issues, see <https://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.