

VMware vSphere 7.x on Dell EMC PowerEdge Servers

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 7.0 includes the ESXi 7.0 hypervisor and is managed by vCenter Server 7.0. 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 7.0 installed.

Topics:

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

Version

7.0

Release date

September 2020

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 7.0 on Dell EMC PowerEdge servers.

Table 1. Memory requirements for VMware vSphere 7.0

Memory	Size
Minimum recommended system memory	1.5 GB per logical CPU
Maximum certified system memory	12 TB

New and enhanced in VMware vSphere 7.0 release

VMware vSphere 7.0 includes the ESXi 7.0 hypervisor and is managed by vCenter Server 7.0. 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 7.0 installed.

Following are some of the important features that are included with vSphere 7.0:

- Simplified vSphere Lifecycle Manager
- vSphere with Kubernetes
- Improved distributed resource scheduler (DRS)
- HTTP/HTTPS boot

Topics:


- [Installation and upgrade instructions](#)

Installation and upgrade instructions

Dell EMC recommends VMware ESXi 7.0 A02 image for all installation and upgrade instances from previous ESXi versions.

Your Dell EMC customized VMware ESXi 7.0 A00 image must be installed as a new installation or deployment. Dell EMC recommends you to follow the VMware recommendations published in [VMware Knowledge Base article 78487](#) and [Dell Knowledge Base article SLN320957](#).

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

 **NOTE:** For more information related to VMware ESXi installation on Dell EMC PowerEdge servers, see [Dell Virtualization](#).

Known issues

Topics:

- 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
- Upgrading to ESXi 7.0 from earlier ESXi version fails
- VMware ESXi 7.0 does not boot after upgrading from VMware ESXi 6.5.x
- Upgrading to ESXi 7.0 from earlier ESXi version fails due to system management software incompatibility
- Installation of ESXi 7.0 fails on PowerEdge modular servers with BCM 5719 or 5720
- Surprise hot-plug of NVMe device is not supported
- Surprise hot-plug of an NVMe in a vSAN environment results in a PSOD
- The esxcli commands fail to locate the non-NVMe storage devices
- The option to start the NTP service does not work post configuration
- The driver modules qedf and qedi are not available for the QLogic 412xx adapter
- Unable to enable SRIOV on Solarflare devices with ESXi 7.0
- The rdma module for BCM 57416 devices fail to load in ESXi 7.0
- Uninstalling Dell EMC iSM VIB fails to delete files
- FCoE adapter speed is displayed as 0
- Status of the FCoE controller is displayed as offline
- The NIC description is incorrect
- The hardware label for PCIe devices is shown as Not appropriate
- Description of the NVMe drive displayed is incorrect

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 (IDSDM) is displayed as Unknown on the respective Hardware Health tabs of the VMware ESXi web client and the vCenter web client.
Applies to:	ESXi 7.0
Workaround:	The iDRAC page displays the status of the IDSDM SD cards correctly.
Systems affected:	All Dell EMC PowerEdge servers.
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.
Applies to:	ESXi 7.0
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.
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.
Applies to:	ESXi 7.0
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.
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 <code>Available</code> when the following <code>esxcli</code> or <code>localcli</code> commands are queried:
---------------------	---

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

Applies to:	ESXi 7.0
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.
Tracking number: 171186

Upgrading to ESXi 7.0 from earlier ESXi version fails

Description: Upgrading ESXi 6.5.x or ESXi 6.7.x to ESXi 7.0 fails with an error pointing to driver modules dependencies.

Applies to: ESXi 7.0

Workaround: Your Dell EMC customized VMware ESXi 7.0 A00 image must be installed as a new installation or deployment. Use the VMware ESXi 7.0 A02 image for upgrading from previous ESXi versions. It is not recommended to use ESXi A00 image to upgrade from previous VMware ESXi versions such as ESXi 6.7.x or ESXi 6.5.x. See [VMware Knowledge Base article 78487](#) and [Dell Knowledge Base article SLN320957](#).

Systems affected: All Dell EMC PowerEdge servers.
Tracking number: 148591, 159679, 159678

VMware ESXi 7.0 does not boot after upgrading from VMware ESXi 6.5.x

Description: VMware ESXi 7.0 does not boot after upgrading from VMware ESXi 6.5.x using VMware vSphere Update Manager (VUM). The following error message is observed during boot: `Fatal Error`. This issue is observed when the VMware ESXi 7.0 A01 image is installed.

Applies to: ESXi 7.0

Workaround: Use the VMware ESXi 7.0 A02 image for upgrading from VMware ESXi 6.5.x.

Systems affected: All Dell EMC PowerEdge servers.
Tracking number: 166665

Upgrading to ESXi 7.0 from earlier ESXi version fails due to system management software incompatibility

Description: Upgrading ESXi 6.7.x to ESXi 7.0 fails with an error pointing to dcim and dcism related packages.

Applies to: ESXi 7.0

Workaround: To uninstall the blocking packages together, run the following command:

```
esxcli software vib remove -n OpenManage -n dcism
```

Systems affected: All Dell EMC PowerEdge servers.
Tracking number: 148591

Installation of ESXi 7.0 fails on PowerEdge modular servers with BCM 5719 or 5720

Description: ESXi 7.0 installation fails on certain server configuration with the following error message:

```
No compatible Network adapter found. Please consult the product's  
Hardware Compatibility Guide (HCG) for a list of supported adapters.
```

The failure occurs only on Dell EMC PowerEdge modular servers that are supported on M1000e, VRTX, and FX2 Chassis with BCM 5720 or 5719 NIC. This issue is due to ntg3 driver limitations.

Applies to: ESXi 7.0

Workaround: Not applicable.

Systems affected: PowerEdge M640, PowerEdge M630, PowerEdge M830, PowerEdge FC640, PowerEdge FC630, and PowerEdge FC830 servers.

Tracking number: 160713

Surprise hot-plug of NVMe device is not supported

Description: The Dell EMC PowerEdge server with ESXi 7.0 does not support removing the NVMe devices abruptly.

Applies to: ESXi 7.0

Workaround: Dell EMC customized image A02 supports surprise removal of NVMe device.

Systems affected: All Dell EMC PowerEdge servers.

Tracking number: 161528

Surprise hot-plug of an NVMe in a vSAN environment results in a PSOD

Description: When an NVMe drive, which is configured for the cache or capacity tiers in a vSAN environment, is removed abruptly, a PSOD results.

Applies to: ESXi 7.0

Workaround: Dell EMC customized image A02 supports surprise removal of NVMe device.

Systems affected: All Dell EMC PowerEdge servers that support NVMe device.

Tracking number: 161528

The esxcli commands fail to locate the non-NVMe storage devices

Description: On Dell EMC PowerEdge yx4x servers, the LEDs of the storage devices do not provide a blink indication after esxcli commands are run. The command for the LED blink indication for the storage device is:

```
esxcli storage core device set -l=off -d <storage device uuid>
```

Applies to: ESXi 7.0

Workaround: Use percli to get the LED blink indication for the storage device.

Systems affected: Dell EMC PowerEdge yx4x servers.

Tracking number: 160207

The option to start the NTP service does not work post configuration

Description: After the configuration of the NTP service, the option to start the service does not work with the Host Web Client.

Applies to: ESXi 7.0

Workaround: The NTP service can be enabled or disabled from the **Services** tab of the Host Web Client. vCenter Server Web Client also allows for the NTP configuration and the NTP service to be enabled or disabled.

Systems affected: All Dell EMC PowerEdge servers.

Tracking number: 165026

The driver modules qedf and qedi are not available for the QLogic 412xx adapter

Description: In an ESXi 7.0 build, the driver modules qedf and qedi are not available for the QLogic 412xx adapter.

Applies to: ESXi 7.0

Workaround: Upgrade the in-box driver to the latest async drivers listed in the VMware HCL for ESXi 7.0 or use VMware ESXi 7.0 A01 image or above. For more information, see [VMware Knowledge Base article 78632](#).

Systems affected: All Dell EMC PowerEdge servers.

Tracking number: 149485

Unable to enable SRIOV on Solarfare devices with ESXi 7.0

Description: With ESXi 7.0, the SROV feature cannot be enabled on the Solarfare devices. This issue is due to in-box driver limitations. The in-box drivers do not have CIM providers required to enable SRIOV.

Applies to: ESXi 7.0

Workaround: Upgrade the in-box driver to the latest async drivers listed in the VMware HCL for ESXi 7.0 or use VMware ESXi 7.0 A01 image or above.

Systems affected: All Dell EMC PowerEdge servers.

Tracking number: 148416

The rdma module for BCM 57416 devices fail to load in ESXi 7.0

Description: The rdma module for BCM 57416 devices fails to load in ESXi 7.0. This issue is due to the in-box driver module bnxtnet limitations.

Applies to: ESXi 7.0

Workaround: Upgrade the in-box driver to the latest async drivers listed in the VMware HCL for ESXi 7.0 or use VMware ESXi 7.0 A01 image or above.

Systems affected: All Dell EMC PowerEdge servers.

Tracking number: 148585

Uninstalling Dell EMC iSM VIB fails to delete files

Description: Specific Dell EMC iSM directories are not deleted after uninstalling the Dell EMC iSM VIB.

Applies to: ESXi 7.0

Workaround: Reboot the host.

Systems affected: All Dell EMC PowerEdge servers.

Tracking number: 154804

FCoE adapter speed is displayed as 0

Description: Dell EMC PowerEdge systems MX740c and MX840c with ESXi 7.0 and FC adapter configuration displays the FCoE adapter speed as 0 when you run one of the following commands:

- `esxcli storage san fc list`
- `localcli storage san fc list`

When you run the same command on the same system that is configured with an FC device and a lun that is associated with an FC device, the FC adapter speed is not displayed as 0.

Applies to: ESXi 7.0

Workaround: Not applicable

Systems affected: Dell EMC PowerEdge MX740c servers and Dell EMC PowerEdge MX840c servers

Tracking number: 157316

Status of the FCoE controller is displayed as offline

Description: The status of the QLogic FastLinQ 41xxx Series FCoE controller is displayed as offline in vCenter server although, the LUNs associated with the controller are operational.

Applies to: ESXi 7.0

Systems affected: Dell EMC PowerEdge MX740c and Dell EMC PowerEdge MX840c servers.

Tracking number: 167266

The NIC description is incorrect

Description:	In Dell EMC PowerEdge systems with ESXi 7.0, the installed Broadcom 57416 device is displayed as Broadcom BCM57416 NetXtreme-E 10GBASE-T RDMA Ethernet Controller instead of Broadcom BCM57416 NetXtreme-E Dual-Media 10G RDMA Ethernet Controller . This is a cosmetic issue and there is no functionality loss.
Applies to:	ESXi 7.0
Workaround:	Not applicable
Systems affected:	All Dell EMC PowerEdge servers
Tracking number:	154618

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 <code>esxcli</code> commands show the appropriate values.
Applies to:	ESXi 7.0
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 <code>esxcli</code> command: <code>esxcli nics -l</code> .
Systems affected:	Dell EMC PowerEdge servers with AMD processors.
Tracking number:	137055

Description of the NVMe drive displayed is incorrect

Description:	The description of the Dell Express Flash PM1735 3.2 TB SFF NVMe model is displayed as a Non-Volatile Memory Controller in the adapter listings under the Storage tab. The same description is displayed on the vCenter Web Client and the ESXi Host Web Client. This is a cosmetic issue and will be resolved in future releases.
Applies to:	ESXi 7.0
Systems affected:	All Dell EMC PowerEdge servers.
Tracking number:	165227

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.	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.	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> .	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 <i>iDRAC RACADM CLI Guide</i> .	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 <i>Dell EMC Systems Management Overview Guide</i> .	www.dell.com/openmanagemanuals
	For information about setting up, using, and troubleshooting OpenManage, see the <i>Dell EMC OpenManage Server Administrator User's Guide</i> .	www.dell.com/openmanagemanuals
	For information about installing, using, and troubleshooting Dell EMC OpenManage Essentials, see the Dell EMC	www.dell.com/openmanagemanuals

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

Task	Document	Location
	www.dell.com/openmanagemanuals > <i>OpenManage Essentials User's Guide</i> .	
	For information about installing and using Dell SupportAssist, see the <i>Dell EMC SupportAssist Enterprise User's Guide</i> .	https://www.dell.com/serviceabilitytools
	For understanding the features of Dell EMC Lifecycle Controller (LC), see the <i>Lifecycle Controller User's Guide</i> .	www.dell.com/idracmanuals
	For information about partner programs enterprise systems management, see the <i>OpenManage Connections Enterprise Systems Management</i> documents.	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 EMC Chassis Management Controller (CMC), see the <i>Chassis Management Controller User's Guide</i> .	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 <i>Dell EMC Event and Error Messages Reference Guide</i> .	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> .	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 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
<ul style="list-style-type: none">Information about downloading, installing, and configuring ESXiSupported 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	<i>VMware ESXi vMotion Support on Dell EMC PowerEdge Servers Compatibility Matrix</i> at www.dell.com/virtualizationsolutions
PowerEdge and PowerVault compatibility information for running ESXi	<i>VMware vSphere on Dell EMC PowerEdge Servers Compatibility Matrix</i> at www.dell.com/virtualizationsolutions
Known issues and resolutions	<i>VMware vSphere 7.0 on Dell EMC PowerEdge Server Release Notes</i> at www.dell.com/virtualizationsolutions
ESXi ISO image customization information	<i>VMware ESXi on Dell EMC PowerEdge Systems Image Customization Information</i> at www.dell.com/virtualizationsolutions

Technical support resources


- vmware.com/support
- www.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 4. 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-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
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.	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.	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> .	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 <i>iDRAC RACADM CLI Guide</i> .	www.dell.com/idracmanuals

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

Task	Document	Location
	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 <i>Systems Management Overview Guide</i> .	www.dell.com/openmanagemanuals
	For information about setting up, using, and troubleshooting OpenManage, see the Dell EMC <i>OpenManage Server Administrator User's Guide</i> .	www.dell.com/openmanagemanuals
	For information about installing, using, and troubleshooting Dell EMC OpenManage Essentials, go to www.dell.com/openmanagemanuals > <i>OpenManage Essentials User's Guide</i> .	www.dell.com/openmanagemanuals
	For information about installing and using Dell SupportAssist, see the Dell EMC <i>SupportAssist Enterprise User's Guide</i> .	https://www.dell.com/serviceabilitytools
	For understanding the features of Dell EMC Lifecycle Controller (LC), see the <i>Lifecycle Controller User's Guide</i> .	www.dell.com/idracmanuals
	For information about partner programs enterprise systems management, see the <i>OpenManage Connections Enterprise Systems Management</i> documents.	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 EMC Chassis Management Controller (CMC), see the <i>Chassis Management Controller User's Guide</i> .	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	www.dell.com/openmanagemanuals

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

Task	Document	Location
	generated by the system firmware and agents that monitor server components, see the Dell EMC Event and Error Messages Reference Guide.	
Troubleshooting your system	For information about identifying and troubleshooting the PowerEdge server issues, see the <i>PowerEdge Servers Troubleshooting Guide</i> .	www.dell.com/poweredgemanuals

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

i 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

Table 6. PowerEdge servers naming convention and examples (continued)

YX3X servers	YX4X systems	YX4XX systems	YX5XX
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.

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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.