

VMware vSphere 7.x on Dell EMC PowerEdge Servers

Quick Boot Compatibility Guide

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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Overview

The vSphere quick boot feature enables a faster upgrade process for an ESXi server. The quick boot feature in vSphere 6.7 was first enabled on a selected list of PowerEdge servers. The same support is now expanded to vSphere 7.x. This compatibility guide provides an overview of configuration requirements to enable vSphere quick boot on the Dell EMC PowerEdge servers.

The quick boot requires a combination of platform, I/O devices, device driver, and its corresponding firmware. This compatibility guide also outlines the support for quick boot, I/O devices and firmware for various generations of PowerEdge servers required to support the vSphere 7.x quick boot feature. The platform and I/O device details listed are in addition to the baseline hardware and driver verification performed by ESXi as part of the quick boot compatibility check.

To verify if a server configuration meets the quick boot baseline requirements of ESXi, run the following command from the ESXi console:

```
/usr/lib/vmware/loadesx/bin/loadESXCheckCompat.py
```

Depending on the server generation model, ensure that your server profile meets the driver and firmware requirements.

For more information about quick boot and support for vSphere 6.7.x, see the [Understanding ESXi Quick Boot Compatibility \(52477\)](#) article or [Quick Boot on Dell EMC PowerEdge servers](#) whitepaper.

Topics:

- [VMware vSphere 7.x Quickboot Compatibility matrix](#)
- [VMware vSphere 7.x—yx5x I/O devices supported for quick boot](#)
- [VMware vSphere 7.x—yx4x I/O devices supported for quick boot](#)
- [VMware vSphere 7.x—yx3x I/O devices supported for quick boot](#)

VMware vSphere 7.x Quickboot Compatibility matrix

Table 1. VMware vSphere 7.x Quickboot Compatibility matrix

PowerEdge servers	Minimum BIOS version
PowerEdge C6420	2.8.2
PowerEdge C6520	1.3.8
PowerEdge C6525	2.0.3
PowerEdge FC640	2.8.2
PowerEdge M640	2.8.2
PowerEdge Mx740c	2.8.2
PowerEdge Mx750c	1.3.8
PowerEdge Mx840c	2.8.2
PowerEdge R450	1.2.1
PowerEdge R540	2.8.2
PowerEdge R550	1.2.1
PowerEdge R630	2.11.0
PowerEdge R640	2.5.4
PowerEdge R650	1.3.8
PowerEdge R650xs	1.2.1

Table 1. VMware vSphere 7.x Quickboot Compatibility matrix (continued)

PowerEdge servers	Minimum BIOS version
PowerEdge R6515	2.0.3
PowerEdge R6525	2.0.3
PowerEdge R730	2.11.0
PowerEdge R730xd	2.11.0
PowerEdge R740	2.5.4
PowerEdge R740xd	2.5.4
PowerEdge R750	1.3.8
PowerEdge R750xa	1.3.8
PowerEdge R750xs	1.2.1
PowerEdge R7515	2.0.3
PowerEdge R7525	2.0.3
PowerEdge R840	2.8.2
PowerEdge R930	2.8.1
PowerEdge R940	2.8.2
PowerEdge R940xa	2.8.2

VMware vSphere 7.x—yx5x I/O devices supported for quick boot

Table 2. VMware vSphere 7.x—yx5x I/O devices supported for quick boot

Type	Vendor	Model	Driver	Minimum driver version	Minimum firmware version
RAID Controller	Dell	PERC H755 Front	lsi_mr3	7.716.03.00-1vmw	51.14.0-3900
		PERC H755 MX	lsi_mr3	7.716.03.00-1vmw	52.14.0-3901
		PERC H350 Adapter	lsi_mr3	7.718.02.00-1vmw	52.19.1-4171
		PERC H750 Adapter	lsi_mr3	7.718.02.00-1vmw	52.16.1-4074
HBA Controller	Dell	Dell HBA355i Front	lsi_msgpt35	17.00.02.00-1vmw	15.15.13.00
		Dell HBA350 MX	lsi_msgpt35	17.00.02.00-1vmw	15.15.06.00
		Dell HBA355e Adapter	lsi_msgpt35	17.00.02.00-1vmw	15.15.15.00
Network Controller	Qlogic	Marvell FastLinQ 41132 Dual Port 10GbE BASE-T, OCP NIC 3.0	qedentv	3.40.5.53-20vmw	15.20.16
		Marvell FastLinQ 41132 Dual Port 10GbE SFP+, OCP NIC 3.0	qedentv	3.40.5.53-20vmw	15.20.16
		Marvell FastLinQ 41232 Dual Port 10/25GbE SFP28, OCP NIC 3.0	qedentv	3.40.5.53-20vmw	15.20.16
		QLogic 10GE 2P QL41162HxRJ-DE Adapter	qedentv	3.40.5.53-20vmw	15.20.16
		QLogic 25GE 2P QL41262HxCU-DE Adapter	qedentv	3.40.5.53-20vmw	15.20.16

Table 2. VMware vSphere 7.x—yx5x I/O devices supported for quick boot (continued)

Type	Vendor	Model	Driver	Minimum driver version	Minimum firmware version
		QLogic 4x10GE QL41164HxRJ CNA	qedentv	3.40.5.53-20vmw	15.20.16
		QL41262HMKR-DE 25 Gigabit Ethernet	qlnativefc	4.1.14.0-5vmw	15.20.14
	Broadcomm	5719 QP 1G ADAPTER INTERMEDIATE PWA	ntg3	4.1.5.0-0vmw	21.60.2
		Broadcom BCM57412 10G SFP Dual Port PCIE adapter	bnxtnet	216.0.50.0-34vmw	21.80.16.92
		Broadcom BCM57414 25G SFP Dual Port PCIE adapter	bnxtnet	216.0.50.0-34vmw	21.80.16.92
		Broadcom BCM57416 10G BT Dual Port PCIE adapter	bnxtnet	216.0.50.0-34vmw	21.80.16.92
		Broadcom BCM57414 25G SFP Dual Port PCIE adapter	bnxtnet	216.0.50.0-34vmw	21.80.16.92
		Broadcom BCM57504 25G KR Quad Port Fab AB Mezz	bnxtnet	216.0.50.0-34vmw	21.80.16.92
	Solarflare	Solarflare XtremeScale X2522-25G Adapter	sfvmk	2.4.0.2010-4vmw	8.2.11
		Solarflare XtremeScale X2562 10/25G Adapter	sfvmk	2.4.0.2010-4vmw	8.2.11
	Intel	Intel(R) Ethernet 10G 2P X710-T2L-t Adapter	i40enu	1.8.1.136-1vmw	20.0.16
		Intel(R) Ethernet 10G 2P X710-T2L-t OCP	i40enu	1.8.1.136-1vmw	20.0.16
		Intel(R) Ethernet 10G 4P X710-T4L-t Adapter	i40enu	1.8.1.136-1vmw	20.0.16
		Intel(R) Ethernet 10G 4P X710-T4L-t OCP	i40enu	1.8.1.136-1vmw	20.0.16
		Intel(R) Ethernet 25G 2P E810-XXV Adapter	icen	1.0.0.10-1vmw	20.0.17
		Intel(R) Ethernet 25G 2P E810-XXV OCP	icen	1.0.0.10-1vmw	20.0.17
		Intel(R) Ethernet 1G 4P I350-t OCP	igbn	1.4.11.2-1vmw	20.0.16
		Intel(R) Ethernet 25G 2P XXV710 Mezz	i40enu	1.8.1.136-1vmw	20.0.16
	Mellanox	Mellanox ConnectX-5 Dual Port 25GbE SFP28 PCIe Adapter	nmlx5_core	4.19.16.10-1vmw	16.28.4512
		Mellanox ConnectX-6 Dx Dual Port 100 GbE QSFP56 PCIe Adapter	nmlx5_core	4.19.16.10-1vmw	22.28.45.12
		Mellanox ConnectX-6 Single Port HDR100 QSFP56 PCIe Adapter	nmlx5_core	4.19.16.10-1vmw	22.28.45.12
		Mellanox ConnectX-6 Dx Dual Port 100 GbE QSFP56 PCIe Adapter	nmlx5_core	4.19.16.10-1vmw	22.28.45.12
FC Controller	Emulex	Emulex LightPulse LPe35002-M2 2-Port 32 GB Fibre Channel Adapter	lpfc	12.8.298.3-1vmw	03.04.24
		Emulex LightPulse LPm32002-D 2-Port 32 GB Fibre Channel Adapter	lpfc	12.8.298.3-1vmw	12.8.379.7
	Qlogic	QME2742-DEL 32G FC	qlnativefc	4.1.14.0-5vmw	15.20.14
		Marvell QLogic 1x32Gb QLE2770 FC HBA	qlnativefc	4.1.14.0-5vmw	15.20.14

Table 2. VMware vSphere 7.x—yx5x I/O devices supported for quick boot (continued)

Type	Vendor	Model	Driver	Minimum driver version	Minimum firmware version
		Marvell QLogic 2x32Gb QLE2772 FC HBA	qlnativefc	4.1.14.0-5vmw	15.20.14
		QLE2690 Single Port 16Gb FC to PCIe Gen3 x8 Adapter	qlnativefc	4.1.14.0-5vmw	15.20.14
		QLE2692 Dual Port 16Gb FC to PCIe Gen3 x8 Adapter	qlnativefc	4.1.14.0-5vmw	15.20.14
AHCI Controller	Dell	BOSS-S2	vmw-ahci	2.0.9-1vmw	2.5.13.4008
		BOSS-S1 Modular	vmw-ahci	2.0.9-1vmw	2.6.13.3024
NVMe Controller	Samsung	Dell EMC PowerEdge Express Flash Ent NVMe AGN MU AIC Gen4 1.6 TB	nvme_pcie	1.2.3.11-1vmw	2.0.2
		Dell EMC PowerEdge Express Flash Ent NVMe AGN MU AIC Gen4 3.2 TB	nvme_pcie	1.2.3.11-1vmw	2.0.2
		Dell EMC PowerEdge Express Flash Ent NVMe AGN MU AIC Gen4 6.4 TB	nvme_pcie	1.2.3.11-1vmw	2.0.2
		Dell EMC PowerEdge Express Flash Ent NVMe v2 AGN MU U.2 Gen4 1.6 TB	nvme_pcie	1.2.3.11-1vmw	2.1.0
		Dell EMC PowerEdge Express Flash Ent NVMe v2 AGN MU U.2 Gen4 12.8 TB	nvme_pcie	1.2.3.11-1vmw	2.1.0
		Dell EMC PowerEdge Express Flash Ent NVMe v2 AGN MU U.2 Gen4 3.2TB	nvme_pcie	1.2.3.11-1vmw	2.1.0
		Dell EMC PowerEdge Express Flash Ent NVMe v2 AGN MU U.2 Gen4 6.4 TB	nvme_pcie	1.2.3.11-1vmw	2.1.0
		Dell EMC PowerEdge Express Flash Ent NVMe v2 AGN RI U.2 Gen4 1.92 TB	nvme_pcie	1.2.3.11-1vmw	2.1.0
		Dell EMC PowerEdge Express Flash Ent NVMe v2 AGN RI U.2 Gen4 3.84 TB	nvme_pcie	1.2.3.11-1vmw	2.1.0
		Dell EMC PowerEdge Express Flash Ent NVMe v2 AGN RI U.2 Gen4 7.68 TB	nvme_pcie	1.2.3.11-1vmw	2.1.0
		Dell EMC PowerEdge Express Flash Ent NVMe v2 FIPS SED MU U.2 Gen4 1.6 TB	nvme_pcie	1.2.3.11-1vmw	2.1.0
		Dell EMC PowerEdge Express Flash Ent NVMe v2 FIPS SED MU U.2 Gen4 12.8TB	nvme_pcie	1.2.3.11-1vmw	2.1.0
		Dell EMC PowerEdge Express Flash Ent NVMe v2 FIPS SED MU U.2 Gen4 3.2 TB	nvme_pcie	1.2.3.11-1vmw	2.1.0
		Dell EMC PowerEdge Express Flash Ent NVMe v2 FIPS SED MU U.2 Gen4 6.4 TB	nvme_pcie	1.2.3.11-1vmw	2.1.0
	Intel	Dell EMC PowerEdge Express Flash Ent NVMe P5500 RI U.2 Gen4 1.92 TB	nvme_pcie	1.2.3.11-1vmw	1.0.0
		Dell EMC PowerEdge Express Flash Ent NVMe P5500 RI U.2 Gen4 3.84 TB	nvme_pcie	1.2.3.11-1vmw	1.0.0
		Dell EMC PowerEdge Express Flash Ent NVMe P5500 RI U.2 Gen4 7.68 TB	nvme_pcie	1.2.3.11-1vmw	1.0.0
		Dell EMC PowerEdge Express Flash Ent NVMe SED P5500 RI U.2 Gen4 1.92 TB	nvme_pcie	1.2.3.11-1vmw	1.0.0

Table 2. VMware vSphere 7.x—yx5x I/O devices supported for quick boot (continued)

Type	Vendor	Model	Driver	Minimum driver version	Minimum firmware version
		Dell EMC PowerEdge Express Flash Ent NVMe SED P5500 RI U.2 Gen4 3.84 TB	nvme_pcie	1.2.3.11-1vmw	1.0.0
		Dell EMC PowerEdge Express Flash Ent NVMe SED P5500 RI U.2 Gen4 7.68 TB	nvme_pcie	1.2.3.11-1vmw	1.0.0
		Dell EMC PowerEdge Express Flash Ent NVMe P5600 MU U.2 Gen4 1.6 TB	nvme_pcie	1.2.3.11-1vmw	1.0.0
		Dell EMC PowerEdge Express Flash Ent NVMe P5600 MU U.2 Gen4 3.2 TB	nvme_pcie	1.2.3.11-1vmw	1.0.0
		Dell EMC PowerEdge Express Flash Ent NVMe P5600 MU U.2 Gen4 6.4TB	nvme_pcie	1.2.3.11-1vmw	1.0.0
		Dell EMC PowerEdge Express Flash Ent NVMe SED P5600 MU U.2 Gen4 1.6 TB	nvme_pcie	1.2.3.11-1vmw	1.0.0
		Dell EMC PowerEdge Express Flash Ent NVMe SED P5600 MU U.2 Gen4 3.2 TB	nvme_pcie	1.2.3.11-1vmw	1.0.0
		Dell EMC PowerEdge Express Flash Ent NVMe SED P5600 MU U.2 Gen4 6.4 TB	nvme_pcie	1.2.3.11-1vmw	1.0.0
		Dell Express Flash NVMe 750 GB (UP) U.2 (P4800X)	nvme_pcie	1.2.3.11-1vmw	E201DP36
		Dell Express Flash NVMe 375 GB (UP) U.2 (P4800X)	nvme_pcie	1.2.3.11-1vmw	E201DP36
		Dell Express Flash NVMe 375 GB HHHL AIC P4800X	nvme_pcie	1.2.3.11-1vmw	E201DP36
	Kioxia	Dell Express Flash NVMe 1.6 TB (MU) 2.5 U.2 (CM6)	nvme_pcie	1.2.3.11-1vmw	2.1.3
		Dell Express Flash NVMe 1.6 TB (MU) 2.5 U.2 (CM6)	nvme_pcie	1.2.3.11-1vmw	2.1.3
		Dell Express Flash NVMe 1.92 TB (RI) 2.5 U.2 (CM6)	nvme_pcie	1.2.3.11-1vmw	2.1.3
		Dell Express Flash NVMe 1.92 TB (RI) 2.5 U.2 (CM6)	nvme_pcie	1.2.3.11-1vmw	2.1.3
		Dell Express Flash NVMe 15.360 TB (RI) 2.5 U.2 (CM6)	nvme_pcie	1.2.3.11-1vmw	2.1.3
		Dell Express Flash NVMe 15.360 TB (RI) 2.5 U.2 (CM6)	nvme_pcie	1.2.3.11-1vmw	2.1.3
		Dell Express Flash NVMe 3.2 TB (MU) 2.5 U.2 (CM6)	nvme_pcie	1.2.3.11-1vmw	2.1.3
		Dell Express Flash NVMe 3.2 TB (MU) 2.5 U.2 (CM6)	nvme_pcie	1.2.3.11-1vmw	2.1.3
		Dell Express Flash NVMe 3.84 TB (RI) 2.5 U.2 (CM6)	nvme_pcie	1.2.3.11-1vmw	2.1.3
		Dell Express Flash NVMe 3.84 TB (RI) 2.5 U.2 (CM6)	nvme_pcie	1.2.3.11-1vmw	2.1.3
		Dell Express Flash NVMe 6.4 TB (MU) 2.5 U.2 (CM6)	nvme_pcie	1.2.3.11-1vmw	2.1.3

Table 2. VMware vSphere 7.x—yx5x I/O devices supported for quick boot (continued)

Type	Vendor	Model	Driver	Minimum driver version	Minimum firmware version
		Dell Express Flash NVMe 6.4 TB (MU) 2.5 U.2 (CM6)	nvme_pcie	1.2.3.11-1vmw	2.1.3
		Dell Express Flash NVMe 7.68 TB (RI) 2.5 U.2 (CM6)	nvme_pcie	1.2.3.11-1vmw	2.1.3
		Dell Express Flash NVMe 7.68 TB (RI) 2.5 U.2 (CM6)	nvme_pcie	1.2.3.11-1vmw	2.1.3
	Dell	Dell Express Flash NVMe 1.6 TB (MU)	nvme_pcie	1.2.3.11-1vmw	2.1.3
		Dell Express Flash NVMe PM1735 3.2 TB PCIe SSD	nvme_pcie	1.2.3.11-1vmw	2.0.2
		Dell Express Flash NVMe PM1735 6.4 TB PCIe SSD	nvme_pcie	1.2.3.11-1vmw	2.0.2

VMware vSphere 7.x—yx4x I/O devices supported for quick boot

Table 3. VMware vSphere 7.x—yx4x I/O devices supported for quick boot

Type	Vendor	Model	Driver	Minimum driver version	Minimum firmware version
RAID Controller	Dell	PERC H730P Mini Monolithic	lsi_mr3	7.712.51.00	25.5.6.009
		PERC H730P Adapter	lsi_mr3	7.712.51.00	25.5.6.009
		PERC H330 Mini Monolithic	lsi_mr3	7.712.51.00	25.5.6.009
		PERC H330 Adapter	lsi_mr3	7.712.51.00	25.5.6.009
		PERC H740P Mini Monolithic	lsi_mr3	7.712.51.00	50.9.4-3025
		PERC H740P Adapter	lsi_mr3	7.712.51.00	50.9.4-3025
		PERC H840 Adapter	lsi_mr3	7.712.51.00	50.9.4-3025
HBA Controller	Dell	Dell 12Gbps SAS HBA	lsi_msgpt3	7.712.50.00	16.17.01.05
		HBA330 Mini Mono	lsi_msgpt3	7.712.50.00	16.17.01.05
		HBA330 Adapter	lsi_msgpt3	7.712.50.00	16.17.01.05
Network Controller	Intel	Intel Ethernet I350 DP 1Gb Server Adapter	igbn	0.1.1.0	19.5.12
		Intel Ethernet I350 QP 1Gb Server Adapter	igbn	0.1.1.0	19.5.12
		Intel Ethernet i350 QP 1Gb Network Daughter Card	igbn	0.1.1.0	19.5.12
		Intel XL710 Dual Port 40G, QSFP+	i40en	1.8.1.16	19.5.12
		Intel X710 Quad Port 10Gb DA/SFP+ Ethernet, Network Daughter Card	i40en	1.8.1.16	19.5.12
		Intel X710 Quad Port 10Gb Direct Aattach, SFP+, Converged Network Adapter	i40en	1.8.1.16	19.5.12
		Intel X710 Dual Port 10Gb Direct Aattach, SFP+, Converged Network Adapter	i40en	1.8.1.16	19.5.12

Table 3. VMware vSphere 7.x—yx4x I/O devices supported for quick boot (continued)

Type	Vendor	Model	Driver	Minimum driver version	Minimum firmware version
		Intel X710 DP 10Gb DA/SFP+, + I350 DP 1Gb Ethernet, Network Daughter Card	i40en	1.8.1.16	19.5.12
		Intel X710 Quad Port 10GbE, Base-T, PCIe Adapter	ixgben	1.8.1.16	19.5.12
		Intel XXV710 Dual Port 25GbE SFP28 PCIe Adapter	ixgben	1.8.1.16	19.5.12
		Intel X550 Dual Port 10G Base-T Adapter	ixgben	1.7.1.26	19.5.12
		Intel X550 Quad Port 10GbE, Base-T, rNDC	ixgben	1.7.1.26	19.5.12
		Intel X550 2 Port 10Gb Base-T + I350 2 Port 1Gb Base-T, rNDC	ixgben	1.7.1.26	19.5.12
	Solarflare	SolarFlare 8522 Onload 10Gb 2 Port SFP+ Adapter	sfvmk	2.0.0.1004	6.5.1.1023
		SolarFlare 8522 10Gb 2 Port SFP+ Adapter	sfvmk	2.0.0.1004	6.5.1.1023
	Mellanox	Mellanox ConnectX-4 Lx Dual Port 25GbE SFP28 rNDC	nmlx5_core	4.19.16.7	14.25.80.00
		Mellanox ConnectX-4 Lx Dual Port 25GbE SFP28 Network Adapter	nmlx5_core	4.19.16.7	14.25.80.00
		Mellanox ConnectX-5 EX Dual Port 100GbE QSFP28 PCIe Adapter	nmlx5_core	4.19.16.7	14.25.80.00
	Broadcom	5719 QP 1G ADAPTER	ntg3	4.1.4.1	21.40.21
		Broadcom 5720 DP 1Gb Network Interface Card	ntg3	4.1.4.1	21.60.2
		Broadcom 5720 QP 1Gb Network Daughter Card	ntg3	4.1.4.1	21.60.2
		Broadcom 57414 Dual Port 25Gb, SFP28, PCIe Adapter	bnxtnet	216.0.50.0	21.60.22.11
		Broadcom 57412 Dual Port 10Gb, SFP+, PCIe Adapter	bnxtnet	216.0.50.0	21.60.22.11
		Broadcom 57416 Dual Port 10Gb, Base-T, PCIe Adapter	bnxtnet	216.0.50.0	21.40.22.20
		Broadcom 57414 Dual Port 25Gb, SFP28, rNDC	bnxtnet	216.0.50.0	21.60.22.11
		Broadcom 57416 2 Port 10Gb Base-T + 5720 2 Port 1Gb Base-T, rNDC	bnxtnet	216.0.50.0	21.60.22.11
		Broadcom 57412 2 Port 10Gb SFP+ + 5720 2 Port 1Gb Base-T, rNDC	bnxtnet	216.0.50.0	21.60.22.11
	QLogic	QLogic 57800 2x10Gb BT + 2x1Gb BT Network Daughter Card	qfle3	1.0.66.0	15.05.12
		QLogic 57800 2x10Gb DA/SFP+ + 2x1Gb BT Network Daughter Card	qfle3	1.0.66.0	15.05.12
		QLogic 25GE 2P QL41262HxCU-DE Adapter	qedentv	3.12.1.0	15.05.14
FC Controller	Emulex	Emulex LightPulse LPE1200x FC8 HBA	lpfc	12.4.293.3	3.01.41/2.02A3
		Emulex LightPulse LPe35002-M2 2-Port 32Gb Fibre Channel Adapter	lpfc	12.4.293.3	3.01.41

Table 3. VMware vSphere 7.x—yx4x I/O devices supported for quick boot (continued)

Type	Vendor	Model	Driver	Minimum driver version	Minimum firmware version
		Emulex LPe31002-M6-D Dual Port 16Gb Fibre Channel HBA	lpfc	12.4.293.3	03.02.18
		Emulex LPe32000-M2-D Single Port 32Gb Fibre Channel HBA	lpfc	12.4.293.3	03.02.18
		Emulex LPe32000-M2-D Single Port 32Gb Fibre Channel HBA	lpfc	12.4.293.3	03.02.18
	QLogic	QLogic 2690 Single Port 16Gb Fibre Channel HBA	qlnatvfc	4.0.1.0	15.05.12
		QLogic 2692 Dual Port 16Gb Fibre Channel HBA	qlnatvfc	4.0.1.0	15.05.12
		QLogic 2740 Single Port 32Gb Fibre Channel HBA	qlnatvfc	4.0.1.0	15.05.12
		QLogic 2742 Dual Port 32Gb Fibre Channel HBA	qlnatvfc	4.0.1.0	15.05.12
		QLE2560 FC8 Single Channel HBA	qlnatvfc	4.0.1.0	09.01.05
		QLE2562 FC8 Dual Channel HBA	qlnatvfc	4.0.1.0	09.01.05
		QLogic 277x Fibre Channel Dual Port 32GFC PCIe Gen4 x8 Adapter	qlnatvfc	4.0.1.0	15.05.12
NVMe Controller	Samsung	Dell Express Flash NVMe PM1725 1.6 TB PCIe SSD Adapter by Samsung	nvme-pcie	1.2.2.13	KPYABD3Q
		Dell Express Flash NVMe PM1725 1.6 TB PCIe SSD Controller	nvme-pcie	1.2.2.13	KPYABD3Q
		Dell Express Flash NVMe PM1725 3.2 TB PCIe SSD Adapter by Samsung	nvme-pcie	1.2.2.13	KPYABD3Q
		Dell Express Flash NVMe PM1725 3.2 TB PCIe SSD Controller	nvme-pcie	1.2.2.13	KPYABD3Q
		Dell Express Flash NVMe PM1725 6.4 TB PCIe SSD Adapter by Samsung	nvme-pcie	1.2.2.13	KPYABD3Q
		Dell Express Flash NVMe PM1725 800 GB PCIe SSD Controller	nvme-pcie	1.2.2.13	KPYABD3Q
		Dell Express Flash NVMe PM1725a 1.6 TB PCIe SSD Controller	nvme-pcie	1.2.2.13	1.1.2
		Dell Express Flash NVMe PM1725a 1.6TB PCIe SSD Adapter by Samsung	nvme-pcie	1.2.2.13	1.1.2
		Dell Express Flash NVMe PM1725a 3.2 TB PCIe SSD Controller	nvme-pcie	1.2.2.13	1.1.2
		Dell Express Flash NVMe PM1725a 3.2TB PCIe SSD Adapter by Samsung	nvme-pcie	1.2.2.13	1.1.2
		Dell Express Flash NVMe PM1725a 6.4 TB PCIe SSD Controller	nvme-pcie	1.2.2.13	1.1.2
		Dell Express Flash NVMe PM1725a 6.4TB PCIe SSD Adapter by Samsung	nvme-pcie	1.2.2.13	1.1.2
		Dell Express Flash NVMe PM1725a 800 GB PCIe SSD Controller	nvme-pcie	1.2.2.13	1.1.2
		Dell Express Flash PM1725b 1.6TB AIC	nvme-pcie	1.2.2.13	1.0.0
		Dell Express Flash PM1725b 1.6TB SFF	nvme-pcie	1.2.2.13	1.0.0

Table 3. VMware vSphere 7.x—yx4x I/O devices supported for quick boot (continued)

Type	Vendor	Model	Driver	Minimum driver version	Minimum firmware version
		Dell Express Flash PM1725b 12.8TB SFF	nvme-pcie	1.2.2.13	1.0.0
		Dell Express Flash PM1725b 3.2TB AIC	nvme-pcie	1.2.2.13	1.0.0
		Dell Express Flash PM1725b 3.2TB SFF	nvme-pcie	1.2.2.13	1.0.0
		Dell Express Flash PM1725b 6.4TB AIC	nvme-pcie	1.2.2.13	1.0.0
		Dell Express Flash PM1725b 6.4TB SFF	nvme-pcie	1.2.2.13	1.0.0
	Intel	Dell Express Flash NVMe 2.0TB HHHL AIC (P4600)	nvme-pcie	1.2.2.13	QDV1DP15
		Dell Express Flash NVMe 4.0TB HHHL AIC (P4600)	nvme-pcie	1.2.2.13	QDV1DP15
		Dell Express Flash NVMe 375GB HHHL AIC P4800X	nvme-pcie	1.2.2.13	E201DP31
		Dell Express Flash NVMe 750GB HHHL AIC P4800X	nvme-pcie	1.2.2.13	E201DP31
		Dell Express Flash NVMe 750GB (UP) AIC (P4800X)	nvme-pcie	1.2.2.13	E201DP31
		Intel Optane SSD DC P4800X Series 375 GB Capacity	nvme-pcie	1.2.2.13	E201DP31
		Intel Optane SSD DC P4800X Series 375 GB Capacity	nvme-pcie	1.2.2.13	E201DP31
	Toshiba	Dell Express Flash NVMe 960GB (RI) 2.5 U.2 (CD5)	nvme-pcie	1.2.2.13	E201DP31

VMware vSphere 7.x—yx3x I/O devices supported for quick boot

Table 4. VMware vSphere 7.x—yx3x I/O devices supported for quick boot

Type	Vendor	Model	Driver	Minimum driver version	Minimum firmware version
RAID Controller	Dell	PERC H730P Mini Monolithic	lsi_mr3	7.712.51.00	25.5.6.009
		PERC H730P Adapter	lsi_mr3	7.712.51.00	25.5.6.009
		PERC H330 Mini Monolithic	lsi_mr3	7.712.51.00	25.5.6.009
		PERC H330 Adapter	lsi_mr3	7.712.51.00	25.5.6.009
HBA Controller	Dell	Dell 12Gbps SAS HBA	lsi_msgpt3	7.712.50.00	16.17.00.05
		HBA330 Mini Mono	lsi_msgpt3	7.712.50.00	16.17.00.05
		HBA330 Adapter	lsi_msgpt3	7.712.50.00	16.17.00.05
Network Controller	Intel	Intel Ethernet I350 DP 1Gb Server Adapter	igbn	0.1.1.0	19.5.12
		Intel Ethernet I350 QP 1Gb Server Adapter	igbn	0.1.1.0	19.5.12
		Intel Ethernet i350 QP 1Gb Network Daughter Card	igbn	0.1.1.0	19.5.12

Table 4. VMware vSphere 7.x—yx3x I/O devices supported for quick boot (continued)

Type	Vendor	Model	Driver	Minimum driver version	Minimum firmware version
		Intel X520 DP 10Gb DA/SFP+ Server Adapter	ixgben	1.7.1.26	19.5.12
		Intel X520 DP 10Gb DA/SFP+, + I350 DP 1Gb Ethernet, Network Daughter Card	ixgben	1.7.1.26	19.5.12
		Intel(R) Ethernet 10G 2P X540-t Adapter	ixgben	1.7.1.26	19.5.12
		Rack Network Daughter Card, PCIe, Intel(R) Gigabit 4P X540/I350 rNDC, 12Gbps	ixgben	1.7.1.26	19.5.12
		Intel(R) Ethernet 10G 2P X540-t Adapter, Dual Port, Network Card, 10 Gb, DSS	ixgben	1.7.1.26	19.5.12
		Intel XL710 Dual Port 40G, QSFP+	i40en	1.8.1.16	19.5.12
		Intel X710 Quad Port 10Gb DA/SFP+ Ethernet, Network Daughter Card	i40en	1.8.1.16	19.5.12
		Intel X710 Quad Port 10Gb Direct Aattach, SFP+, Converged Network Adapter	i40en	1.8.1.16	19.5.12
		Intel X710 Dual Port 10Gb Direct Aattach, SFP+, Converged Network Adapter	i40en	1.8.1.16	19.5.12
		Intel X710 DP 10Gb DA/SFP+, + I350 DP 1Gb Ethernet, Network Daughter Card	i40en	1.8.1.16	19.5.12
		Intel X710 Quad Port 10GbE, Base-T, PCIe Adapter	i40en	1.8.1.16	19.5.12
	Mellanox	Mellanox ConnectX-4 Lx Dual Port 25GbE SFP28 rNDC	nmlx5_core	4.19.16.7	14.25.80.00
		Mellanox ConnectX-4 Lx Dual Port 25GbE SFP28 Network Adapter	nmlx5_core	4.19.16.7	14.25.80.00
		Mellanox ConnectX-4 Dual Port 100 GbE, QSFP+, PCIe Adapter	nmlx5_core	4.19.16.7	12.25.10.20
	Broadcom	5719 QP 1G ADAPTER	ntg3	4.1.4.1	21.40.21
		Broadcom 5720 DP 1Gb Network Interface Card	ntg3	4.1.4.1	21.60.2
		Broadcom 5720 QP 1Gb Network Daughter Card	ntg3	4.1.4.1	21.60.2
		Broadcom 57404 25G SFP Dual Port PCIe Adapter	bnxtnet	216.0.50.0	21.40.25.31
		Broadcom 57402 10G SFP Dual Port PCIe Adapter	bnxtnet	216.0.50.0	21.60.22.11
		Broadcom 57406 10G Base-T Dual Port PCIe Adapter	bnxtnet	216.0.50.0	21.40.25.31
	Qlogic	QLogic 57810 Dual Port 10Gb Base-T Network Adapter	qfle3	1.0.66.0	15.05.12
		QLogic 57810 Dual Port 10Gb Direct Attach/ SFP+ Network Adapter	qfle3	1.0.66.0	15.05.12
		QLogic 57810 DP 10Gb DA/SFP+ Converged Network Adapter	qfle3	1.0.66.0	15.05.12
		QLogic 57800 2x10Gb BT + 2x1Gb BT Network Daughter Card	qfle3	1.0.66.0	15.05.12
		QLogic 57800 2x10Gb DA/SFP+ + 2x1Gb BT Network Daughter Card	qfle3	1.0.66.0	15.05.12

Table 4. VMware vSphere 7.x—yx3x I/O devices supported for quick boot (continued)

Type	Vendor	Model	Driver	Minimum driver version	Minimum firmware version
		QLogic 57840S Quad Port 10Gb SFP+ Direct Attach Rack Network Daughter Card	qfle3	1.0.66.0	15.05.12
FC Controller	Emulex	LightPulse LPE1200x FC8 HBA	lpfc	12.4.293.3	03.01.41
		Emulex LightPulse LPe15000B-M8-D 1-Port 8G Gen 5 Fibre Channel Adapter	lpfc	12.4.293.3	3.00.14
		Emulex LightPulse LPe15002B-M8-D 2-Port 8G Gen 5 Fibre Channel Adapter	lpfc	12.4.293.3	3.00.14
		Emulex LPe31000-M6-D Single Port 16Gb Fibre Channel HBA	lpfc	12.4.293.3	03.02.18
		Emulex LPe31002-M6-D Dual Port 16Gb Fibre Channel HBA	lpfc	12.4.293.3	03.02.18
		Emulex LPe32000-M2-D Single Port 32Gb Fibre Channel HBA	lpfc	12.4.293.3	03.02.18
		Emulex LPe32002-M2-D Dual Port 32Gb Fibre Channel HBA	lpfc	12.4.293.3	03.02.18
	Qlogic	QLE2560 FC8 Single Channel HBA	qlnativefc	4.0.1.0	09.01.05
		QLE2562 FC8 Dual Channel HBA	qlnativefc	4.0.1.0	09.01.05
		QLE2660 Single Port FC16 HBA	qlnativefc	4.0.1.0	15.15.13
		QLE2662 Dual Port FC16 HBA	qlnativefc	4.0.1.0	15.15.13
		QLE2690 Single Port 16Gb FC to PCIe Gen3 x8 Adapter	qlnativefc	4.0.1.0	8.08.231
		QLogic 2690 Single Port 16Gb Fibre Channel HBA	qlnativefc	4.0.1.0	15.05.12
		QLogic 2692 Dual Port 16Gb Fibre Channel HBA	qlnativefc	4.0.1.0	15.05.12
		QLogic 2740 Single Port 32Gb Fibre Channel HBA	qlnativefc	4.0.1.0	15.05.12
		QLogic 2742 Dual Port 32Gb Fibre Channel HBA	qlnativefc	4.0.1.0	15.05.12
NVMe Controller	Samsung	Dell Express Flash NVMe PM1725 1.6 TB PCIe SSD Adapter by Samsung	nvme_pcie	1.2.2.13	KPYABD3Q
		Dell Express Flash NVMe PM1725 1.6 TB PCIe SSD Controller	nvme_pcie	1.2.2.13	KPYABD3Q
		Dell Express Flash NVMe PM1725 3.2 TB PCIe SSD Adapter by Samsung	nvme_pcie	1.2.2.13	KPYABD3Q
		Dell Express Flash NVMe PM1725 3.2 TB PCIe SSD Controller	nvme_pcie	1.2.2.13	KPYABD3Q
		Dell Express Flash NVMe PM1725 6.4 TB PCIe SSD Adapter by Samsung	nvme_pcie	1.2.2.13	KPYABD3Q
		Dell Express Flash NVMe PM1725 800 GB PCIe SSD Controller	nvme_pcie	1.2.2.13	KPYABD3Q
		Dell Express Flash NVMe PM1725a 1.6 TB PCIe SSD Controller	nvme_pcie	1.2.2.13	1.1.2
		Dell Express Flash NVMe PM1725a 1.6TB PCIe SSD Adapter by Samsung	nvme_pcie	1.2.2.13	1.1.2

Table 4. VMware vSphere 7.x—yx3x I/O devices supported for quick boot (continued)

Type	Vendor	Model	Driver	Minimum driver version	Minimum firmware version
		Dell Express Flash NVMe PM1725a 3.2 TB PCIe SSD Controller	nvme_pcie	1.2.2.13	1.1.2
		Dell Express Flash NVMe PM1725a 3.2TB PCIe SSD Adapter by Samsung	nvme_pcie	1.2.2.13	1.1.2
		Dell Express Flash NVMe PM1725a 6.4 TB PCIe SSD Controller	nvme_pcie	1.2.2.13	1.1.2
		Dell Express Flash NVMe PM1725a 6.4TB PCIe SSD Adapter by Samsung	nvme_pcie	1.2.2.13	1.1.2
		Dell Express Flash NVMe PM1725a 800 GB PCIe SSD Controller	nvme_pcie	1.2.2.13	1.1.2
		Dell Express Flash PM1725b 1.6TB AIC	nvme_pcie	1.2.2.13	1.0.0
		Dell Express Flash PM1725b 1.6TB SFF	nvme_pcie	1.2.2.13	1.0.0
		Dell Express Flash PM1725b 12.8TB SFF	nvme_pcie	1.2.2.13	1.0.0
		Dell Express Flash PM1725b 3.2TB AIC	nvme_pcie	1.2.2.13	1.0.0
		Dell Express Flash PM1725b 3.2TB SFF	nvme_pcie	1.2.2.13	1.0.0
		Dell Express Flash PM1725b 6.4TB AIC	nvme_pcie	1.2.2.13	1.0.0
		Dell Express Flash PM1725b 6.4TB SFF	nvme_pcie	1.2.2.13	1.0.0
	Intel	Dell Express Flash NVMe Read Intensive P4500 4TB HHHL AIC	nvme_pcie	1.2.2.13	QDV1DP15
		Dell Express Flash NVMe Mixed Use, P4600 2TB PCIe HHHL AIC	nvme_pcie	1.2.2.13	QDV1DP15
		Dell Express Flash NVMe Mixed Use, P4600 4TB PCIe HHHL AIC	nvme_pcie	1.2.2.13	QDV1DP15
		Dell Express Flash NVMe 375GB HHHL AIC P4800X	nvme_pcie	1.2.2.13	E201DP31
		Dell Express Flash NVMe 750GB HHHL AIC P4800X	nvme_pcie	1.2.2.13	E201DP31

Getting help

Topics:

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

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 5. Related information for virtualization solutions

If you need information about	See
Dell EMC 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 EMC 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 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 on Dell EMC PowerEdge Servers Compatibility Matrix at www.dell.com/virtualizationsolutions
Known issues and resolutions	VMware vSphere 7.0 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
UEFI Boot order management utility in VMware ESXi 7.0	www.dell.com/support/article/en-us/sln321019

Table 5. Related information for virtualization solutions (continued)

If you need information about	See
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-vsan-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/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 6. 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=TnWyuuxuk5k
Operating system 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 IDSMD	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 7. Additional documentation resources for your server

Task	Document	Location
VMware vSphere 7.0 Release Notes	Release Notes posted on the VMware website that covers known issues, compatibility information and new features in this release.	
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

Table 7. Additional documentation resources for your server (continued)

Task	Document	Location
	For information about understanding Remote Access Controller Admin (RACADM) subcommands and supported RACADM interfaces, see the <i>Integrated Dell Remote Access Controller 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 EMC, see the Dell EMC <i>Systems Management Overview Guide</i> .	https://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> .	https://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> .	https://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>Dell 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 EMC Chassis Management Controller (CMC), see the <i>Chassis Management Controller User's Guide</i> .	https://www.dell.com/esmmanuals
Working with the Dell EMC PowerEdge RAID controllers	For information about understanding the features of	www.dell.com/storagecontrollermanuals

Table 7. Additional documentation resources for your server (continued)

Task	Document	Location
	the Dell EMC PowerEdge RAID controllers (PERC) and deploying the PERC cards, see the Storage controller documentation.	
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 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

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 8. PowerEdge servers naming convention and examples

YX3X servers	YX4X servers	YX4XX servers	YX5XX servers
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.

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

 **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

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

 **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.

Documentation feedback

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