

Dell PowerEdge™ / Microsoft Windows Server® Operating System Support (LTSC)

IMPORTANT CHANGE: Windows Server 2022 requires TPM 2.0 installed and enabled, UEFI and Secure Boot. Beginning January 1st, 2021 all newly released PowerEdge servers have TPM 2.0 offered by default. Dell strongly recommends that customers include TPM 2.0 with initial server purchase.

NEW: Starting with Windows Server 2022, the Essential Edition is a processor-core based license. It includes maximum of 10-cores, 25/50 User and Device CALs and is available on 1-socket servers only.

NEW: With the release of Windows Server 2022, OpenManage Server Administrator (OMSA) with OM 10.2 release, will be fully supporting Windows Server 2022, Windows Server 2019 and Windows Server 2016. OM 10.2 is the last release of OMSA supporting Windows Server 2016.

Operating System support levels, as defined by Dell, are:

Qualified: Dell™ Engineering has successfully tested, validated and certified the Operating System version on Dell PowerEdge™ Servers. Dell adheres to all published partner test plans to ensure Operating System compatibility and provides full technical support for the Dell hardware components running on the Operating System. Dell Qualified systems have OpenManage support.

Note for Windows users:

Certified for Windows®: This system meets Microsoft standards for compatibility and best practices with the Windows Server® operating system

For more information regarding this certification, see <http://www.windowsservercatalog.com/content.aspx?ctf=logo.htm>.

Windows Server 2019 and Windows Server 2016 Data Center & Standard Editions are processor-core based license.

Supported: Dell Engineering has successfully tested and validated **only the current operating system version** on Dell PowerEdge Servers. Dell adheres to all published partner test plans to ensure operating system compatibility and provides full technical support for the Dell hardware components running on the operating system. Dell Supported systems may not have OpenManage support.

Limited: Dell PowerEdge servers™ support of the operating system (OS) is limited to a virtual environment as a guest OS. Please contact the software vendor for additional support or questions about running the OS in a virtualized environment.

Windows OS support lifecycles: <https://learn.microsoft.com/en-us/lifecycle/products/>

EOS (End of Sales/Distribution/FI)

Beginning RTS through next 4yrs, The qualified OSes are fully tested, validated and certified by Dell on PowerEdge Servers. Downgrade support of the respective OSes will end along with the EOS.

EOMS (End of Mainstream Support)

Mainstream support is offered for 2yrs after the EOS. During this period, Dell will limit the support providing security updates, bug fixes for the existing drivers and firmwares on case to case basis. No feature updates are offered. Dell will abide by the same policy for this OS with downgrade offerings. In case of any device driver issues, where a refresh is required, drivers can be recertified for 10 years from the RTS date.

EOES (End of Extended Support)

Extended support is offered for 5yrs after the EOMS. Regardless of the OS version, if the platform is being supported by Dell, we will provide security updates for the OS versions running on the respective platform. Any quality and product fixes will be available directly from Microsoft for a fee for this 5-year period.

Third-Party Supported: All testing, support and validation on select or all Dell platforms are done by the OS partner or community. Dell collaborates with the OS third-party either via onsite engineering or other support. This OS version has not been fully tested or validated by Dell. Dell system management and OpenManage support will not be provided.

Notes:

- Blank cells indicate no support.
- Microsoft has discontinued Foundation edition starting with Windows Server 2016
- Windows Server Recovery Image in ISO format is available for download from Dell Digital Locker but it does not include product keys or COA. Those are included with your purchase of Windows Server OEM or qualified downgrade kit option.

Windows OS support matrix:

PowerEdge Server Model	Windows Server 2022 (LTSC)			Windows Server 2019 (LTSC)			Windows Server 2016 (LTSC)			Windows Server 2012									
	Essentials Edition (10-core)	Standard Edition w/Hyper-V	Datacenter Edition w/Hyper-V	Support Level	Essentials Edition	Standard Edition w/Hyper-V	Datacenter Edition w/Hyper-V	Support Level	Essentials Edition	Standard Edition w/Hyper-V	Datacenter Edition w/Hyper-V	Support Level	Foundation Edition	Essentials Edition	Standard Edition w/Hyper-V	Datacenter Edition w/Hyper-V	R2 w/Hyper-V	Server 2012 w/Hyper-V	
DSS8440						√	√												
C4130						√	√			√	√				√	√	Qualified	Qualified	
C4140		√	√	Qualified		√	√	Qualified		√	√	Qualified							
C6320						√	√			√	√				√	√	Qualified	Qualified	
C6420		√	√	Qualified		√	√	Qualified		√	√	Qualified			√	√	Qualified		
C6520		√	√	Qualified		√	√	Qualified		√	√	Qualified							
C6525		√	√	Qualified		√	√	Qualified											
C6615		√	√	Qualified		√	√	Qualified											
C6620		√	√	Qualified		√	√	Qualified											
FC430						√	√			√	√				√	√	Qualified	Qualified	
FC630						√	√			√	√				√	√	Qualified	Qualified	
FC640		√	√	Qualified		√	√	Qualified		√	√	Qualified			√	√	Qualified		
FC830						√	√			√	√				√	√	Qualified	Qualified	
M630						√	√			√	√				√	√	Qualified	Qualified	
M640		√	√	Qualified		√	√	Qualified		√	√	Qualified			√	√	Qualified		
M640p		√	√	Qualified		√	√	Qualified				Qualified							
MX740c		√	√	Qualified		√	√	Qualified		√	√	Qualified			√	√	Qualified		
MX750c		√	√	Qualified		√	√	Qualified		√	√	Qualified							
MX760c		√	√	Qualified		√	√	Qualified											
M830						√	√			√	√				√	√	Qualified	Qualified	
MX840c		√	√	Qualified		√	√	Qualified		√	√	Qualified			√	√	Qualified		
R230					√	√			√	√			√	√	√		Qualified	Qualified	
R240 ***	√	√		Qualified	√	√			√	√							Qualified		
R250	√	√		Qualified	√	√		Qualified											
R330					√	√			√	√				√	√		Qualified	Qualified	
R340***	√	√		Qualified	√	√		Qualified	√	√		Qualified					Qualified		
R350	√	√		Qualified	√	√		Qualified											
R360	√	√		Qualified	√	√		Qualified											
R430						√	√			√	√				√	√	Qualified	Qualified	
R440		√	√	Qualified		√	√	Qualified		√	√	Qualified			√	√	Qualified		
R450		√	√	Qualified		√	√	Qualified		√	√	Qualified							
R530						√	√			√	√				√	√	Qualified	Qualified	
R530xd**															√	√	Qualified	Qualified	
R540		√	√	Qualified		√	√	Qualified		√	√	Qualified			√	√	Qualified		
R550		√	√	Qualified		√	√	Qualified		√	√	Qualified							
R630						√	√			√	√				√	√	Qualified	Qualified	

PowerEdge Server Model	Windows Server 2022 (LTSC)				Windows Server 2019 (LTSC)				Windows Server 2016 (LTSC)				Windows Server 2012					
	Essentials Edition (10-core)	Standard Edition w/Hyper-V	Datacenter Edition w/Hyper-V	Support Level	Essentials Edition	Standard Edition w/Hyper-V	Datacenter Edition w/Hyper-V	Support Level	Essentials Edition	Standard Edition w/Hyper-V	Datacenter Edition w/Hyper-V	Support Level	Foundation Edition	Essentials Edition	Standard Edition w/Hyper-V	Datacenter Edition w/Hyper-V	R2 w/Hyper-V	Server 2012 w/Hyper-V
T140***	√	√		Qualified	√	√		Qualified	√	√							Qualified	
T150	√	√		Qualified	√	√		Qualified										
T30									√	√			√	√	√		Qualified	Qualified
T40					√	√			√	√								
T330					√	√			√	√				√	√		Qualified	Qualified
T340***	√	√		Qualified	√	√			√	√							Qualified	
T350	√	√		Qualified	√	√		Qualified										
T360	√	√		Qualified	√	√		Qualified										
T430						√	√			√	√				√	√	Qualified	Qualified
T440		√	√	Qualified		√	√	Qualified		√	√	Qualified			√	√	Qualified	
T550		√	√	Qualified		√	√	Qualified		√	√	Qualified						
T560		√	√	Qualified		√	√	Qualified										
T630						√	√			√	√				√	√	Qualified	Qualified
T640		√	√	Qualified		√	√	Qualified		√	√	Qualified			√	√	Qualified	
T660		√	√	Qualified		√	√	Qualified										
XE2420		√	√	Qualified				Qualified				Qualified						
XE7420		√	√	Qualified		√	√	Qualified				Qualified						
XE7440		√	√	Qualified		√	√	Qualified				Qualified						
XE8545		√	√	Qualified		√	√	Qualified		√	√	Qualified						
XR2						√	√			√	√							
XR11		√	√	Qualified		√	√	Qualified		√	√	Qualified						
XR12		√	√	Qualified		√	√	Qualified		√	√	Qualified						
XR5610		√	√	Qualified		√	√	Qualified										
XR4000		√	√	Qualified		√	√	Qualified										
XR7620		√	√	Qualified		√	√	Qualified										
XR4510c		√	√	Qualified		√	√	Qualified										
XR4520c		√	√	Qualified		√	√	Qualified										

Updated: December 2023

** Platform discontinued

*** Per updates in Microsoft's Silicon Support Policy, Windows Server 2012R2 is no longer supported on those platforms with new generation processors. For more information see:

1. <https://learn.microsoft.com/troubleshoot/windows-client/deployment/processor-not-supported-together-with-windows-version>
2. [Microsoft Windows Processor Requirements](#) under "**Windows Server Processors**"

- (1) Secure core support is from 15G and above servers (Intel Icelake, Rocket Lake and above CPU's; AMD Milan and above CPU's).
 - Not supported on AMD servers R6525 and R7515.
 - Not supported for Intel Rocket Lake CPU based servers (R350, R250, T350 & T150), this is due to business reason we haven't enabled.
- (2) X2APIC is supported with Windows Server 2019 onwards. For more information on Microsoft OS support for EPYC 7xx2 see:
<https://learn.microsoft.com/troubleshoot/windows-server/deployment/windows-server-support-installation-for-amd-rome-family-processor>
- (3) Minimum build required for new enablements for EPYC Gen 2 based platforms:
 - (3.1) Windows Server 2019 (version 1809, build 17763.774; - September 24, 2019—KB4516077)
 - (3.2) Windows Server 2016 (version 1607, build 14393.1884; - November 14, 2017—KB4048953)
- (4) Cascade Lake based servers are not certified nor supported with Windows Server 2012R2; Windows Server 2012R2 will be supported in VM only.
- (5) Platform with CPU Update (EPYC Gen 3); released in March, 2021.
- (6) Beginning Feb 2022, no new drivers will be released for Windows Server 2016.
- (7) Windows Server 2022 Essentials is available on single (1) socket servers with 10-core processors or less.

12G and older platforms support matrix:

PowerEdge Server Model	Foundation Edition	Essentials Edition	Standard Edition w/	Datacenter Edition	Windows Server	
					R2 w/Hyper-V	Server 2012 w/Hyper-V
					Support Level	
C1100						
C2100						
C5125						
C5220			√	√	Qualified	Qualified
C6100						
C6105			√	√	Qualified	Qualified
C6145			√	√	Qualified	Qualified
C6220			√	√	Qualified	Qualified
C6220II			√	√	Qualified	Qualified
C6320			√	√	Qualified	Qualified
C8220			√	√		Qualified
FM120x4	√		√		Qualified	Qualified
M420			√	√	Qualified	Qualified
M520			√	√	Qualified	Qualified
M600			√	√		Supported
M605			√	√		Supported
M610			√	√	Qualified	Qualified
M610X			√	√	Qualified	Qualified
M620			√	√	Qualified	Qualified
M710			√	√	Qualified	Qualified
M710HD			√	√	Qualified	Qualified
M805			√	√		Supported
M820			√	√	Qualified	Qualified
M905			√	√		Supported
M910			√	√	Qualified	Qualified
M915			√	√	Qualified	Qualified
PE1800						
PE1850						
PE1855MC						
PE1900			√			Supported
PE1950			√	√		Supported
PE1950			√	√		Supported
PE1955MC			√	√		Supported
PE2800						
PE2850						

PowerEdge Server Model	Foundation Edition	Essentials Edition	Standard Edition w/	Datacenter Edition	Windows Server	
					R2 w/Hyper-V	Server 2012 w/Hyper-V
					Support Level	
PE2900			√	√		Supported
PE2900			√	√		Supported
PE2950			√	√		Supported
PE2950			√	√		Supported
PE2970			√	√		Supported
PE6800						
PE6800-800T						
PE6850						
PE6850-800T						
PE6950			√	√		Supported
PE830						
PE840						
PE850						
PE860						
R200	√		√			Supported
R210	√		√		Qualified	Qualified
R210 II	√	√	√		Qualified	Qualified
R220	√	√	√		Qualified	Qualified
R300			√			Supported
R310		√	√		Qualified	Qualified
R320		√	√		Qualified	Qualified
R410			√	√	Qualified	Qualified
R415			√	√	Qualified	Qualified
R420			√	√	Qualified	Qualified
R510			√	√	Qualified	Qualified
R510			√	√	Qualified	Qualified
R515			√	√	Qualified	Qualified
R520			√	√	Qualified	Qualified
R610			√	√	Qualified	Qualified
R620			√	√	Qualified	Qualified
R710			√	√	Qualified	Qualified
R715			√	√	Qualified	Qualified
R720			√	√	Qualified	Qualified
R805v			√	√		Supported
R810			√	√	Qualified	Qualified

PowerEdge Server Model	Foundation Edition	Essentials Edition	Standard Edition w/Hyper	Datacenter Edition w/Hyp	Windows Server	
					R2 w/Hyper-V	Server 2012 w/Hyper-V
					Support Level	
R815			√	√	Qualified	Qualified
R820			√	√	Qualified	Qualified
R900			√	√		Limited
R905v			√	√		Supported
R910			√	√	Qualified	Qualified
R920			√	√	Qualified	Qualified
SC1430						
SC1435			√			Supported
SC440						
T100	√		√			Supported
T105			√			Supported
T110	√		√		Qualified	Qualified
T110 II	√	√	√		Qualified	Qualified
T20	√	√	√		Qualified	Qualified
T30	√	√	√		Qualified	Qualified
T300			√			Supported
T310		√	√		Qualified	Qualified
T320		√	√		Qualified	Qualified
T410			√	√	Qualified	Qualified
T420			√	√	Qualified	Qualified
T605			√			Supported
T610			√	√	Qualified	Qualified
T620			√	√	Qualified	Qualified
T710			√	√	Qualified	Qualified