

Dell EMC XC6420 XC Series Appliance and XC Core System Support Matrix

July 2020

Revisions

Date	Description
July 2020	Updated the Support components section.
June 2020	Updated the Support components section.
May 2020	Updated the following sections: <ul style="list-style-type: none"> • Supported components • Supported NDCs • Supported NICs • Supported hypervisor OSS
February 2020	Updated the Supported hypervisor OS section.
October 2019	<ul style="list-style-type: none"> • Updated Supported NIC section. Use Nutanix LCM. • Updated Dell EMC documentation section.
June 24, 2019	Added supported CPUs and supported memory.
June 6, 2019	Updated the following sections: <ul style="list-style-type: none"> • Supported hypervisor OS • Supported Management Software
May 2019	Updated the following sections: <ul style="list-style-type: none"> • Supported Management Software • Supported Hypervisor OS • Supported components
April 2019	Updated the following sections: <ul style="list-style-type: none"> • Supported hypervisor OS • Supported Management Software
February 2019	Updated the following sections: <ul style="list-style-type: none"> • Updated Supported NICs • Supported Management Software Added Encryption Restrictions section
December 2018	Updated the following sections: <ul style="list-style-type: none"> • Supported components • BIOS and iDRAC versions • Supported networking

Revisions

	<ul style="list-style-type: none">Supported hypervisor OS
August 2018	Updated firmware and BIOS.
March 2018	Initial release

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Introduction

This document provides information about the supported software, firmware, and hardware versions and technical specifications for the Dell EMC XC6420 Series Hyper-Converged Appliance.

NOTE: The information in this document applies to both Dell EMC XC Series Appliances, as well as the Dell EMC XC Core System offering. Sections or information that apply to only one of the offerings (XC Series or XC Core) will be called out explicitly.

This Support Matrix contains the latest compatibility and interoperability information. If you observe inconsistencies between this information and other documentation or references, this document supersedes all other documentation.

1 Supported hardware, firmware, and software

This chapter provides information about supported software, firmware, and hardware versions for the Dell EMC XC6420 Series Hyper-Converged Appliance.

NOTE: Future updates to this document may remove firmware versions because Nutanix LCM is the prescribed method to update the appliance.

1.1 Supported components

Table 1 Supported Components

Component	Cascade Lake Model	Cascade Lake Refresh
CPU	4208	4210R
	4210	4214R
	4214	5218R
	4215	5220R
	4216	6226R
	5215	6230R
	5217	6238R
	5218	6240R
	5220	6242R
	6226	6246R
	6230	6248R
	6234	6258R
	6238	
	6240	
	6242	
	6244	
	6246	
	6248	
	6252	
	6254	
8260		
8268		
8270		
8276		

Component	Cascade Lake Model	Cascade Lake Refresh
	8280	
BIOS	1.3.7 and later	
iDRAC support	3.15.17.15 or later	

Table 2 Memory capability

16Gb RDIMM
32Gb RDIMM
64Gb LRDIMM
64Gb RDIMM
128Gb LRDIMM

Table 3 Support

Shelf	2933 MT/s Support
Platinum-82xx	✓
Gold-62xx	✓
Gold-52xx	
Silver-42xx	

1.2 Supported physical disk drives

This section provides information about disks drives supported by your hardware.

Table 1 Supported Physical Disk Drives

Form Factor	Capacity	Type	Vendor
2.5"	1.2 TB	SAS HDD	Dell EMC Supported
2.5"	1.8 TB	SAS HDD	Dell EMC Supported
2.5"	2.4 TB	SAS HDD	Dell EMC Supported
2.5"	1.2 TB	SAS SED HDD	Dell EMC Supported
2.5"	2.4 TB	SAS SED HDD	Dell EMC Supported
2.5"	480 GB	SATA SSD	Dell EMC Supported
2.5"	960 GB	SATA SSD	Dell EMC Supported
2.5"	1920 GB	SATA SSD	Dell EMC Supported

Form Factor	Capacity	Type	Vendor
2.5"	3840 GB	SATA SSD	Dell EMC Supported
2.5"	400 GB	SAS SSD	Dell EMC Supported
2.5"	480 GB	SAS SSD	Dell EMC Supported
2.5"	800 GB	SAS SSD	Dell EMC Supported
2.5"	960 GB	SAS SSD	Dell EMC Supported
2.5"	1600 GB	SAS SSD	Dell EMC Supported
2.5"	1920 GB	SAS SSD	Dell EMC Supported
2.5"	3840 GB	SAS SSD	Dell EMC Supported
2.5"	1920 GB	SAS SED SSD	Dell EMC Supported

1.2.1 Encryption Restrictions

This section describes encryption restrictions.

- If encryption has never been enabled and you do not plan to use it in the future, secure encrypted drives (SED) can be mixed with unencrypted (non-SED) drives in the same node.
- If encryption was never enabled and remains disabled, encrypted nodes can be mixed with unencrypted nodes in the same cluster.
- Encryption is not supported for NVMe drives.
- All nodes in the cluster must have SED capable drives to use hardware SED encryption.

NOTE: If SED drives are mixed with non-SED drives, the encryption cannot be enabled for that cluster.

An encryption key must be removed from the SED drives from Prism before you format (clear) the SED drives.

1.3 Supported networking

This section provides information about networking supported by your hardware and supported NICs.

Intel branded Network Daughter Cards (NDC) and Network Interface Cards (NIC) specify the use of only Intel branded SFP+ optical modules for use with optical cables. When ordering a system with optics, the appropriate Intel branded SFP+ optical modules are included with your order. If you already have SFP+ optical modules, ensure they are the Intel branded modules before inserting into the NDC or NIC. Twinax cables are also the supported network cables for Intel NDC and NIC.

CAUTION: Using any brand of SFP+ module other than Intel during deployment disables the 10 GbE ports. Call Dell EMC Support to recover port functionality.

WARNING: Hot-plugging an unsupported SFP+ module causes ESXi host to fail with purple diagnostic screen. Call Dell EMC Support to recover from this situation.

1.3.1 Supported NICs

Use the Nutanix LCM for update support.

1.4 Supported management software

This section provides information about components supported by your hardware.

Table 2 Supported management software

Name	AOS version (Skylake)	AOS version (Cascade lake)
AHV	5.1 or later	5.10.3.2 or later
Windows Server 2016	5.5.0.4 or later	5.10.3.2 or later
ESXi 6.0U3 (EOL date 3/12/2020)	5.1 or later	5.10.3.2 or later
ESXi 6.5d	5.1 or later	5.10.3.2 or later
ESXi 6.7	5.9 – STS or later/ 5.5.7-LTS or later	5.10.3.2 or later
ESXi 6.7 U1, ESXi 6.7 U2, ESXi 6.7U3	5.5.9 -LTS or later in 5.5.x branch 5.10.2 – LTS or later in 5.10.x branch	5.10.3.2 or later

1.5 Supported hypervisor OS

This section provides information about the hypervisor Operating Systems (OS) supported by your hardware.

Table 3 Supported hypervisor OS

Name	Minimum version required
VMware	ESXi 6.0 U3 (EOL date 3/12/2020) ESXi 6.5d, 6.5U1, 6.5U2, 6.5U3 ESXi 6.7, 6.7U1, 6.7U2, 6.7U3
Windows Server	Windows Server 2012 R2 Standard Edition Windows Server 2012 R2 Datacenter Edition Windows Server 2016
Acropolis Hypervisor (AHV)	AHV 5.1
Citrix	No Dell EMC support

2 Documentation Matrix

The documentation matrix provides information about the documents that you use to configure and deploy the Dell EMC Hyper-Converged Appliance solution.

WARNING: See the safety and regulatory information that shipped with your system. Warranty information may be included with this document or as a separate document.

Make sure that you read through any media that ships with your system that provides documentation and tools for configuring and managing your system, including those pertaining to the OS, system management software, system updates, and system components that you purchased with your system.

NOTE: URLs such as Dell.com/support or Dell.com/support/home, are not active, because you must type the URL from your location to access your specific language.

For the full name of an abbreviation or acronym used in this document, see the Glossary at Dell.com/support/home.

NOTE: Always read the updates on Dell.com/support/home because they often supersede information in other documents.

NOTE: While upgrading your system, Dell EMC recommends that you download and install the latest BIOS, driver, and systems management firmware on your system from Dell.com/support/home.

2.1 Dell EMC documentation

Dell EMC documentation is either included with your shipment or available at the Dell EMC website at Dell.com/xcseriesmanuals.

Dell EMC documentation for:

- Dell EMC iDRAC is available at Dell.com/idracmanuals.
- Dell EMC OpenManage Essentials is available at Dell.com/openmanagemanuals.

To access Dell EMC documentation:

1. In the Dell EMC Support page, scroll down to **General Support**, and then click **Servers, Storage & Networking**.
2. Click **Engineered Solutions**, click **Manuals**, and select the documentation you require.

Table 4 Dell EMC reference documentation

To learn about...	Refer to...
Setup instructions of your system, including the technical specifications	<i>Getting Started Guide</i>
Hardware details for your system	<i>Owner's Manual</i>
How to install your system in to a rack	<i>Dell Rack Install Guide</i>
How to deploy and set up this solution	<i>Solutions Guide</i>

To learn about...	Refer to...
Setting up and using Dell EMC iDRAC9	<i>Dell EMC iDRAC9 Quick Start Guide</i>
Using OpenManage Essentials to monitor, perform updates, view hardware, and view inventory on your system	<i>Dell EMC OpenManage Essentials User's Guide</i>

2.2 Nutanix documentation

Nutanix documentation is found using the Nutanix portal found at <https://portal.nutanix.com/#/page/docs>. To display a complete set of documentation, you must have user credentials to log in.

The required Nutanix documentation is found using various filters or search.

Table 5 Nutanix documentation

To learn about...	Acropolis base document name
Set up instructions for environments with special requirements and restrictions.	<i>Acropolis Advanced Setup Guide</i>
Comprehensive references for Controller Virtual Machine (CVM) utilities, nCLI commands, and Nutanix PowerShell cmdlet	<i>Acropolis Command Reference</i>
Instructions and reference for administering the Nutanix solution software outside the Nutanix Prism UI (such as cluster start/stop, manual upgrade, changing passwords, reconfiguring IP addresses, and troubleshooting tools).	<i>Acropolis Advanced Administration Guide</i>
Managing Nutanix Acropolis AHV hosts that run Nutanix solution software.	<i>Acropolis Hypervisor Administration Guide</i>
Managing VMware ESXi hosts that run Nutanix solution software, including VMware vCenter requirements.	<i>vSphere Administration Guide for Acropolis (using vSphere Client)</i>
Managing Hyper-V hosts that run the Nutanix solution software, including domain requirements.	<i>Hyper-V Administration for Acropolis</i>
Comprehensive references for the Nutanix REST API.	<i>Acropolis API Reference</i>
Distributed VM management services for Nutanix nodes with Acropolis hypervisor (AHV).	<i>Acropolis App Mobility Fabric Guide</i>
Nutanix support of containers through Acropolis Container Services.	<i>Acropolis Container Services Guide</i>

To learn about...	<i>Acropolis base document name</i>
Set up instructions for your solution.	<i>Field Installation Guide</i>
Software instructions for hardware components that are not functioning.	<i>AHV Administration Guide</i>
Software instructions for hardware components that are not functioning.	<i>Hardware Replacement Documentation</i>
Comprehensive instructions and references for the Nutanix UI, including overview information.	<i>Prism Web Console Guide</i>
Monitoring multiple Nutanix cluster through web console.	<i>Prism Central Guide</i>

3 Contacting Dell EMC

Dell EMC provides several online and telephone-based support and service options. If you do not have an active internet connection, you can find contact information about your purchase invoice, packing slip, bill, or Dell EMC product catalog. Availability varies by country and product, and some services may not be available in your area. To contact Dell EMC for sales, technical assistance, or customer-service issues:

1. Go to **Dell.com/support**.
2. Select your country from the drop-down menu on the lower right corner of the page.
3. For customized support:
 - Enter your system **Service Tag** in the **Enter your Service Tag** text box.
 - Click **Submit**.
 - The support page that lists the various support categories is displayed.
4. For general support:
 - Select your product category.
 - Select your product segment.
 - Select your product. The support page that lists the various support categories is displayed.
5. For contact details of Dell EMC Global Technical Support:
 - Click **Global Technical Support**.
 - The Contact Technical Support page is displayed with details to call, chat, or email the Dell EMC Global Technical Support team.

4 Quick Resource Locator

Use the Quick Resource Locator (QRL) to get immediate access to Dell EMC XC6420 solution information. This information provides access to reference documentation, a link to the Dell EMC support page, and links to hardware-specific QRL pages, which include how-to videos. You can access this information by visiting www.dell.com/QRL or by using your smartphone or tablet and scanning the QR code below. You can also click the image below to go directly to the Dell EMC XC6420 QRL location.

