

Dell EMC XC6420 Series Hyper-Converged Appliance

Solutions 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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About Dell EMC XC6420 Series Hyper-Converged Appliances solution

The Dell EMC XC6420 Series Hyper-Converged Appliances solution includes the Dell EMC appliance and software from Nutanix (used as a virtual appliance), which simplifies virtualization by converging computer, storage, and network into a single appliance that is deployed in a clustered environment. The following figure shows the XC6420 Series Hyper-Converged Appliances:

NOTE: For more information about deploying the Dell EMC XC6420 Series Hyper-converged Appliances, see the manuals available at Dell.com/XC6420Seriesmanuals.



Figure 1. Back view of XC6420 Series sled

Documentation references

Table 1 provides the reference document link on the Dell support site for Nutanix solution software documentation, Dell EMC documentation, and supported hardware, firmware, and software.

Table 1. Documentation references

Information	Link
Nutanix solution software documentation	
Dell EMC documentation	See the <i>Dell EMC XC6420 Series Hyper-Converged Appliances</i>
Supported hardware, firmware, and software	Support Matrix available at Dell.com/XCseriesmanuals

License management

NOTE: This chapter does not apply to XC Core appliances.

The Nutanix virtual computing platform consists of various features that enable you to administer your environment according to your current and future requirements.

You can use the default feature set of the Nutanix solution software, upgrade to an enhanced feature set, update your license for a longer term, or reassign existing licenses to nodes or clusters as required.

There are two types of licenses. They are:

- Starter license
- Pro and Ultimate license

Starter license:

Each Nutanix node and block is delivered with a default Starter license, which is issued for a six-year term that begins on the shipping date for your appliance order. You are not required to register this license on the Nutanix Customer Portal account that was assigned to you when you purchased your nodes.

Pro and Ultimate licenses

The Pro and Ultimate license types require you to download a license file from the Nutanix Customer Support Portal and install it on your cluster. When you upgrade to a Pro or Ultimate license, or add nodes or clusters to your environment with these licensed features, you must generate the license file, download it, and then install it.

NOTE: The most current information about your license is available at the Nutanix Customer Support Portal. You can view information about license types, expiration dates, and any free license inventory (that is, unassigned available licenses).

Setting up Nutanix Customer Portal

If you are new to Nutanix Support, create a personal profile on the Nutanix Customer Portal. Creating a personal profile enables you to manage your licenses.

About this task

NOTE: The Nutanix Customer Portal is also required to access some of the advanced Nutanix documentation.

Perform the following steps to set up your Nutanix Customer Portal:

Steps

- 1 Go to **<http://portal.nutanix.com>**, click **+Create account**, type the required information, and then click **Register**.
An email would be sent to your registered email address. Click the verification link to activate your account. The Welcome screen is displayed.
- 2 Select **Support Portal**, type the Serial Number or Service Tag of your appliance, and then click **Activate**.

NOTE: To find the Service Tag of your appliance, see the Locating Service Tag section in this document.

The Customer Portal account is now created and allows you to manage your licenses.

Managing the license

About this task

Perform the following steps to manage your licenses:

Steps

- 1 In **Nutanix Documentation portal**, open the *Web Console Guide*, and then see the License Management section.
For more information about accessing *Web Console Guide*, see the Documentation Matrix section in the *Dell EMC XC6420 Series Hyper-Converged Appliances Support Matrix* available at **[Dell.com/XCSeriesmanuals](https://www.dell.com/support/manuals)**.
- 2 Perform the relevant licensing tasks for your appliance.

Deploying an appliance

Before you begin

Before you deploy an appliance, ensure that you read through this document and familiarize yourself with the process and required materials.

- ⚠ WARNING:** Before you set up and operate your appliance, review the safety instructions that shipped with your storage enclosure.
- ⚠ WARNING:** The weight of your appliance with all the physical disk drives installed (full weight) is 41.46 Kg (91.40 lb).
- ⚠ WARNING:** Your appliance must be installed by Dell EMC certified service technicians.
- ⚠ CAUTION:** Before installing your appliance in the rack, ensure that the weight of the appliance does not exceed the weight limit of the rack. For more information, see the Rack Installation instructions that is shipped with your appliance.
- ⚠ CAUTION:** It is important that you complete all the tasks in this guide before doing other configurations.
- 📌 NOTE:** For weight stability, always load the rack by using bottom-up approach.
- 📌 NOTE:** This solution is deployed by Dell EMC Services.

Ensure that the following items are available:

- Power cables
- Network cables—optical and/or copper (Intel SFP+ or Category 6 Ethernet)
- Rail kit
- Nutanix documentation
- Dell EMC Documentation

- 📌 NOTE:** For more information about the Dell EMC documentation and Nutanix documentation, see the Documentation matrix section in *Dell EMC XC6420 Series Hyper-Converged Appliances Support Matrix* available at Dell.com/XCseriesmanuals.
- 📌 NOTE:** The Boot Optimized Server Storage (BOSS) card shipped with XC Series appliances is the appliance boot device. This PCIe card supports up to two M.2 SATA SSDs configured in RAID1 for high availability. Write intensive activities and processes leveraged by XC Series appliances, are intended to take place on the SSDs and HDDs and not the BOSS boot device. Any applications defaulting write activity to the BOSS boot drive should be redirected accordingly.

The following are some of the examples of write intensive applications not to be run on the boot device:

- Appliance Center Agents
 - System Center Configuration Manager (CCMExec.exe)
 - System Center Operations Manager (MonitoringHost.exe)
- Write-intensive Agents
- Databases
- Disk management utilities (third-party disk defragmentation or partitioning tools)
- More roles outside of the appliance's intended use (web server, domain controller, RDS, and so on.).
- Client-based Antivirus (Hyper-V only)
- Virtual machines: Ensure that the virtual machines run only on Solid State Drives (SSDs) and Hard Disk Drives (HDDs).

Setting up your appliance for first use

Prerequisite

Make sure that your appliance components are properly installed. Your appliance is shipped with physical disk drives, power supply units (PSUs), and fan components. Ensure that all components are properly seated and are not dislodged or damaged during shipping.

Steps

- 1 Install the appliance in a rail.
The appliance requires a compatible rack and a rack installation kit. For more information about rail installation for the appliance, see the Rack Installation instructions that shipped with your appliance.
- 2 Cable your solution based on the best practices cabling diagram shown in the following image:

NOTE: At a minimum, there are three appliances in a cluster.

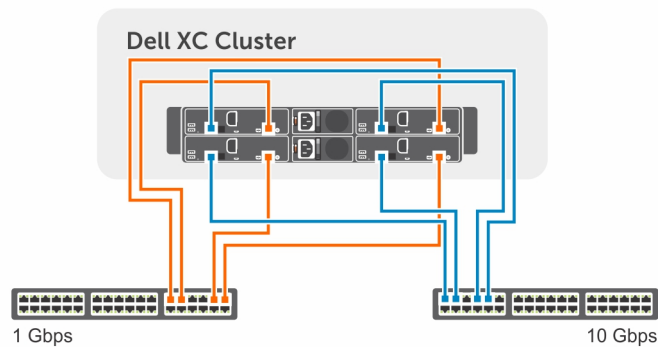


Figure 2. Cabling an appliance

1 Management Network

2 Host Network

NOTE: The preferred setup is to connect the management port across all three appliances to the same switch (management network).

Deploying XC Series appliances

The flow of tasks in deploying the XC Series appliances is shown in the following image:

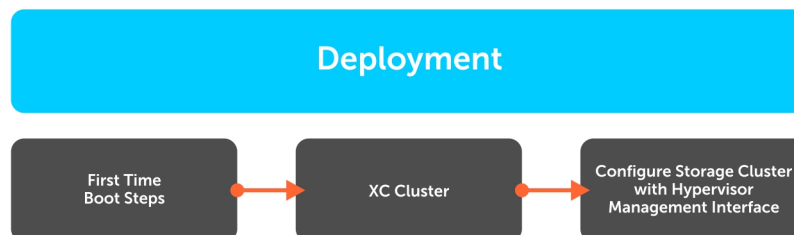


Figure 3. Deployment workflow process

The deployment of XC Series appliances involves running the first time boot scripts, creating an XC cluster, and configuring the storage cluster with Hypervisor Management Interface.

First time boot scripts

Use the first time boot script information that applies to your appliance and associated hypervisor.

First time boot scripts for Nutanix AOS

Nutanix AOS is installed on each appliance. As Nutanix AOS is preconfigured, it does not require more first time configuration. The XC Series appliances boot to the hypervisor and are ready to be clustered after the CVM has all the services up and running.

Running first time boot scripts for VMware vSphere

After the appliance is racked and cabled, run the VMware vSphere boot script. When you run the first time boot script, the following tasks are completed:

NOTE: These first time boot scripts run automatically upon the first boot of the appliance and include multiple reboots.

- Creating vSwitch Nutanix, internal and external port groups and vmkernel interface with address on internal portgroup
- Activating vMotion and management on the default external vmkernel interface (vmk0)
- Enabling TSM-SSH, TSM, sshClient, nfsClient, and ntpClient through the firewall
- Denying vprobeServer through the firewall
- Setting advanced ESXi parameters
- Enabling auto-start, setting the default RAM, and number of vCPU for the CVM
- Electing applicable data-disk storage controller for PCI pass-through
- Disabling drivers associated with pass-through storage controllers
- Installing the following VIBs: Nutanix VAAI, updated ixgbe and igb driver, and GPU VIBs (if applicable)
- Renaming local VMFS datastore to standard naming convention: NTN_X-local-ds-`<block id>`-`<node_position>`
- Starting CVM and checking for the existence of `/tmp/svm_boot_succeeded`
- Restarting host

Running first time boot scripts for Microsoft Hyper-V

After the appliance is racked and cabled, run the Microsoft Hyper-V boot script. When you run the first time boot script, the following tasks are completed:

NOTE: These first time boot scripts run from a first time boot scripts wizard and require minimal user intervention.

- Setting up vSwitch or LBFO NIC Team
- Installing NIC drivers (Intel), Cygwin, ipmiutil, and Python
- Registering CVM as a VM
- Attaching disks to CVM
- Enabling auto-start, sets the default RAM and number of vCPU for the CVM.
- Starting CVM and checks for the existence of `/tmp/svm_boot_succeeded`.
- Restarting host.

Creating a cluster

You can create a Nutanix storage cluster by using one of the following ways:

- Using Nutanix Foundation from all locally discovered appliances that are ready to be clustered
- Creating a cluster manually by using command line interface

During this process, you can set the following parameters:

- Cluster maximum Redundancy Factory (RF)
- Cluster name
- Cluster virtual IP (optional for AHV and vSphere)
- Subnet mask and default gateway (iDRAC, hypervisor, and CVM)
- Domain Name Servers (DNS)
- Network Time Protocol (NTP) servers (hypervisor NTP N/A for Hyper-V)
- Hypervisor hostnames
- Appliance IPs (iDRAC, hypervisor, and CVM)
- Reinstallation of new hypervisor and CVM (optional with Nutanix Foundation CVM)

Configuring a cluster by using Nutanix Prism

NOTE: For information about Nutanix, see the *Dell EMC XC6420 Series Hyper-Converged Appliances Support Matrix* available at Dell.com/XCSeriesmanuals. The document name varies depending on the solution software version you are running.

Acropolis Hypervisor (AHV)

- 1 Create storage pool and containers through the Nutanix web console.
- 2 Create, deploy, and manage virtual machines through the Nutanix web console.

NOTE: For more information, see the *Acropolis Virtualization Administration Guide*. To access *Acropolis Virtualization Administration Guide*, see the *Documentation Matrix* section in the *Dell EMC XC6420 Series Hyper-Converged Appliances Support Matrix* available at Dell.com/XCSeriesmanuals.

VMware vSphere

- 1 Create storage pools through the Nutanix web console.
- 2 Create and mount containers as NFS datastores on appropriate hosts through the Nutanix web console.
- 3 Manually add and configure vSphere clusters by using the Nutanix guidelines.

NOTE: For more information, see the *vSphere Administration Guide*. To access *vSphere Administration Guide*, see the *Documentation Matrix* section in the *Dell EMC XC6420 Series Hyper-Converged Appliances Support Matrix* available at Dell.com/XCSeriesmanuals.

Microsoft Hyper-V

- 1 Create storage pools and containers through the Nutanix web console.
- 2 Run Hyper-V setup script from any CVM to join hosts to a domain, create a Hyper-V failover cluster, and register a storage cluster as an SMB share.
- 3 Optionally, add a cluster to System Center Virtual Machine Manager either with the Hyper-V setup script or manually.

Default cluster credentials

The default cluster credentials for the appliance differ from those stated at the beginning of all Nutanix documentation. The following table contains the default credentials for each for each interface in the appliance:

NOTE: The default password is not set for ESXi hosts.

Table 2. Default cluster credentials

Interface	Target	Username	Password
Web management console	iDRAC	root	calvin
SSH client or console	AHV host	root	nutanix/4u
Remote desktop or console	Hyper-V host	Administrator	nutanix/4u
SSH client or console	ESXi host	root	
SSH client	Nutanix Controller VM	nutanix	nutanix/4u
Nutanix Web Console	PRISM Interface (after cluster configuration)	admin	admin

NOTE:

- 1 For Username and Password of Web management console, see the Service Tag available on the appliance.
- 2 The default password is not set for ESXi hosts.

Downloading and installing software applications

OpenManage Essentials is a hardware management application that provides a comprehensive view of the appliance and its components. OpenManage Essentials enables you to:

- Discover and list the appliance inventory
- Monitor the health of an appliance
- Perform appliance updates and remote tasks
- View hardware inventory and compliance reports

NOTE: For more information about the supported OpenManage Essentials versions, see the *Dell EMC XC6420 Series Hyper-Converged Appliances Support Matrix* available at Dell.com/XCSeriesmanuals.

Topics:

- [Downloading OpenManage Essentials](#)
- [Installing Dell OpenManage Essentials on a separate management server](#)
- [Dell Nautilus](#)

Downloading OpenManage Essentials

- To download OpenManage Essentials management software, go to Dell.com/support/home or the Dell TechCenter website at DellTechCenter.com/OME.
- To download the *OpenManage Essentials User's Guide*, go to Dell.com/openmanagemanuals.

NOTE: To install OpenManage Essentials, you must have local appliance administrator privileges, and the appliance you are using must meet the criteria mentioned in the Installation Prerequisites and Minimum Requirements section of the *OpenManage Essentials User's Guide*, go to Dell.com/openmanagemanuals.

NOTE: OpenManage Essentials must be installed on the management network or a network that has access to the IMPI or iDRAC ports.

Installing Dell OpenManage Essentials on a separate management server

About this task

Perform the following steps to install OpenManage Essentials on a separate management server:

Steps

- 1 Go to Dell.com/openmanagemanuals and open the *OpenManage Essentials User's Guide*.
- 2 Go to the Installation Prerequisites and Minimum Requirements section and complete the tasks as described.
- 3 Go to the Installing OpenManage Essentials section and complete the tasks as described.

Install the following optional software applications:

- Dell OpenManage Essentials
- Dell Repository Manager

NOTE: Install Dell Repository Manager only if you want to customize the Firmware Bundles and Update Packages.

Dell Nautilus

Dell Nautilus is a general maintenance release utility for updating firmware for SAS and SATA drives (or disks).

About this task

NOTE: For information about the supported Dell Nautilus version number, see *Dell EMC XC6420 Series Hyper-Converged Appliances Support Matrix* available at Dell.com/XCSeriesmanuals.

Perform the following steps to download the Dell Nautilus Firmware Update Utility for SAS and SATA disk Solid State Drives (SSDs):

Steps

- 1 Go to **Dell.com/support/drivers**.
- 2 In the **Customized support** section, in the **Enter your Service Tag or Express Service Code** box, type the Service Tag of your Dell EMC XC6420, and then click **Submit**.
NOTE: If you do not have a Service Tag, select **Detect My Product** to allow the appliance to automatically detect your Service Tag, or select **Choose from a list of all Dell products** to select your product from the **Product Selection** page.
- 3 On the **Product Support** page, click **Drivers & downloads**.
- 4 From the **Operating System** drop-down menu, select **Not Applicable**.
- 5 Go to the **SAS Drive** section and search for Dell Nautilus Firmware Utility for SAS and SATA disk and SSDs.
- 6 Click **Download**. Click **Download** again to download the .exe file. In your Download folder, locate the latest version of Dell Nautilus and click to expand the compressed files.
- 7 In the extracted folder, run **USBMake Utility**.
- 8 Create the bootable Nautilus package and complete one of the following tasks:
 - To create a bootable CD or DVD image (ISO), click **Create Bootable CD Image** and follow instructions. Copy the .iso image file to CD, or save the bootable ISO on a management workstation.
 - Connect a USB flash drive to the appliance and follow instructions to create a bootable USB flash drive.

Monitoring XC Series appliances

You can monitor an appliance by using any of the following:

- iDRAC
- OpenManage Essentials
- Nutanix Prism
- Nutanix web console

The following table lists the components and monitor utility:

Table 3. Appliance component monitoring guide

Components	Monitor Utility
System memory	iDRAC, OpenManage Essentials, Nutanix Prism
Cooling fans	iDRAC, OpenManage Essentials, Nutanix Prism
Network Daughter Card	iDRAC, OpenManage Essentials, Nutanix Prism
Processors	iDRAC, OpenManage Essentials, Nutanix Prism
PSUs	iDRAC, OpenManage Essentials, Nutanix Prism
NIC	iDRAC, OpenManage Essentials, Nutanix Prism
Dell HBA330	iDRAC, OpenManage Essentials, Nutanix Prism
Front hard drives	Nutanix web console
Front SSDs	Nutanix web console

Monitoring the appliance by using iDRAC

To monitor the appliance by using iDRAC, see the *iDRAC User's Guide* at [Dell.com/idracmanuals](https://www.dell.com/support/manuals).

Monitoring the appliance by using Dell OpenManage Essentials

Perform the following steps to monitor an appliance by using Dell OpenManage Essentials:

- 1 Download the *OpenManage Essentials User's Guide* from [Dell.com/openmanagemanuals](https://www.dell.com/support/manuals).
- 2 Discover the components of the appliance.

For more information, see the Discovering and inventorying devices section.

- 3 To use the functionality of OMSA preinstalled on each appliance, configure it by using the *OpenManage Essentials User's Guide*.
- 4 To add an appliance to the discovered list of appliances, discover the appliance by using an IP range.

Monitoring an appliance by using Nutanix Web Console

To monitor the health of a cluster, VMs, performance, and alerts and events, the Nutanix Web Console provides a range of status-check features. To monitor the appliance by using Nutanix Web Console, see the *Prism Web Console Guide* at **Nutanix documentation portal**.

NOTE: For more information about accessing *Nutanix Prism Web Console Guide*, see the Documentation Matrix section in the *Dell EMC XC6420 Series Hyper-Converged Appliances Support Matrix* available at Dell.com/XCSeriesmanuals.

In the Nutanix *Prism Web Console Guide* document, refer to the following sections:

- Health Monitoring
- Virtual Machine Monitoring
- Performance Monitoring
- Alert and Event Monitoring

Monitoring an appliance by using Nutanix Prism

To monitor the appliance by using Nutanix Prism, see the *Nutanix Prism Central Guide* at **Nutanix documentation portal**.

NOTE: For more information about accessing *Nutanix Prism Central Guide*, see the Documentation Matrix section in the *Dell EMC XC6420 Series Hyper-Converged Appliances Support Matrix* available at Dell.com/XCSeriesmanuals.

Updating firmware

You can update the firmware of an appliance by using any of the following:

- iDRAC
- Dell Update Packages (DUPs)
- LCM
- Nutanix web console
- Dell EMC Nautilus

NOTE: You can use Dell EMC Nautilus as an alternative to the Nutanix web console for updating firmware on the front hard drives and SSDs.

The following table lists the components and utility:

Table 4. Appliance component update guide

Components	Utility
Network Daughter Card	Dell Update Packages (DUPs), iDRAC, and LCM
PSUs	Dell Update Packages (DUPs), iDRAC, and LCM
NIC	Dell Update Packages (DUPs), iDRAC, and LCM
BIOS	Dell Update Packages (DUPs), iDRAC, and LCM
iDRAC	Dell Update Packages (DUPs), iDRAC, and LCM
Dell HBA330	Dell Update Packages (DUPs), iDRAC, and LCM
Front hard drives	Nutanix web console
Front SSDs	Nutanix web console
BOSS card	Contact Dell EMC Support

NOTE: To update the firmware of the appliance by using Dell Update Packages (DUPs), iDRAC, and LCM, see the respective User's Guide at Dell.com/support/home.

Updating drive firmware with Dell Nautilus

About this task

Perform the following steps to update drive firmware with Dell Nautilus:

Steps

- 1 Turn off Controller Virtual Machine (CVM).
- 2 Set the hypervisor in **Maintenance** mode.
- 3 Access CVM GUI, and do one of the following:
 - Connect the keyboard or monitor or mouse device to the ports on the XC6420 appliance.

- Connect to the iDRAC GUI.

 **NOTE:** For more information about configuring and accessing the iDRAC GUI, see the *iDRAC Quick Start Guide* at Dell.com/idracmanuals.

- 4 Press F11 to restart the appliance and open BIOS boot manager.
- 5 To mount Dell Nautilus ISO or the USB key to the appliance, select **EFI Boot Manager**.
- 6 From the **EFI boot** list, select **Virtual CD** or **USB drive**.
- 7 Click **Update Firmware**.
Dell Nautilus updates all hard drives and SSD firmware for all hard drives and SSDs connected to the appliance.

Replacing hardware

This section describes high-level tasks to replace the components within the appliance.

To perform the hardware replacement tasks, you have to download the below documents from Dell.com/XCSeriesmanuals:

- *Nutanix Hardware Replacement Documentation*

NOTE: For more information about downloading the *Nutanix Hardware Replacement Documentation*, see the **Documentation matrix section in the *Dell EMC XC6420 Series Hyper-Converged Appliance Support Matrix* available at Dell.com/XCSeriesmanuals.**

- *Dell EMC XC6420 Series Hyper-Converged Appliance Service and Installation Manual*

After downloading these documents, you are ready to proceed with the below hardware replacement tasks:

- Replacing components with no cluster data
- Replacing failed front hard drive and SSD components that contain cluster data

Topics:

- [Replacing components with no cluster data](#)
- [Replacing failed front hard drive and SSD components that contain cluster data](#)

Replacing components with no cluster data

About this task

You can replace the following hardware components that do not contain cluster data:

- System memory
- Cooling fans
- Network Daughter Cards or Network Interface Cards
- PSUs

Perform the following steps to replace the components with no cluster data:

Steps

- 1 Turn off the node for the relevant hypervisor.

For more information see the *Failure of Components that do not Contain Cluster Data* section in the *Nutanix Hardware Replacement Guide* on the [Nutanix documentation portal](#).

NOTE: For more information about accessing *Nutanix Hardware Replacement Guide*, see the **Documentation Matrix section in the *Dell EMC XC6420 Series Hyper-Converged Appliances Support Matrix* available at Dell.com/XCSeriesmanuals.**

- 2 Replace the failed component.

For more information, see the *Installing and removing components* section in *Dell EMC XC6420 Series Hyper-Converged Appliance Installation and Service Manual* available at Dell.com/XCSeriesmanuals.

- 3 Restart the appliance of the relevant hypervisor.

For more information, see the *Failure of Components that do not Contain Cluster Data* section in the *Nutanix Hardware Replacement Guide* on the [Nutanix documentation portal](#).

NOTE: For more information about accessing *Nutanix Hardware Replacement Guide*, see the **Documentation Matrix section in the *Dell EMC XC6420 Series Hyper-Converged Appliances Support Matrix* available at Dell.com/XCSeriesmanuals.**

Replacing failed front hard drive and SSD components that contain cluster data

About this task

Perform the following steps to replace the failed front hard drive and SSDs that contain cluster data:

Steps

- 1 Identify the failed hard drive or SSD.

For more information, see the Data Drive Failure section in the *Nutanix Hardware Replacement Guide* on the **Nutanix documentation portal**.

NOTE: For more information about accessing *Nutanix Hardware Replacement Guide*, see the Documentation Matrix section in the *Dell EMC XC6420 Series Hyper-Converged Appliances Support Matrix* available at Dell.com/XCSeriesmanuals.

- 2 Remove the failed hard drive or SSD.

For more information, see the Installing and removing components, hard drives, Removing a hot-swap hard drive, and Installing a hot-swap hard drive sections in *Dell EMC XC6420 Series Hyper-Converged Appliance Installation and Service Manual* available at Dell.com/XCSeriesmanuals.

NOTE: Before installing the new hard drives and SSDs, ensure that any foreign RAID configuration available in the appliance must be removed. Otherwise, they will not be recognized by the CVM.

- 3 Install a new hard drive or SSD.

For more information, see the Completing Data Drive Replacement and complete the replacement of the failed hard drive or SSD sections in the *Nutanix Hardware Replacement Guide* on the **Nutanix documentation portal**.

NOTE: For more information about accessing *Nutanix Hardware Replacement Guide*, see the Documentation Matrix section in the *Dell EMC XC6420 Series Hyper-Converged Appliances Support Matrix* available at Dell.com/XCSeriesmanuals.

Recovering an appliance

Dell EMC provides an option to recover the appliance in the event of an appliance failure or a cluster node failure. For more information about recovering an appliance, contact Dell EMC support.

Getting help

Topics:

- [Contacting Dell EMC](#)
- [Dell EMC SupportAssist](#)
- [Locating Service Tag](#)
- [Quick Resource Locator for XC6420 systems](#)

Contacting Dell EMC

Prerequisite

NOTE: If you do not have an active internet connection, you can find contact information on your purchase invoice, packing slip, bill, or Dell EMC product catalog.

About this task

Dell EMC provides several online and telephone-based support and service options. Availability varies by country and product, and some services may not be available in your area. To contact Dell EMC for sales, technical support, or customer service issues:

Steps

- 1 Go to **Dell.com/support/home**.
- 2 Select your support category.
- 3 Verify your country or region in the **Choose a Country/Region** drop-down menu at the upper-right corner of the page.
- 4 Select the appropriate service or support link based on your requirement.

Dell EMC SupportAssist

For an enhanced Support Experience, Dell EMC recommends installing and configuring Dell EMC SupportAssist.

Dell EMC SupportAssist is a software application that transparently collects information about your appliance and automatically creates support cases when issues are detected. Dell EMC SupportAssist helps Dell EMC to provide you an enhanced, personalized, and efficient support experience. Dell EMC uses the data to solve common problem, designs and markets the products.

For more information about installing and configuring Dell EMC SupportAssist, see: **Dell.com/supportassist**.

Locating Service Tag

Your appliance is identified by a unique Express Service Code and Service Tag number. This information is used by Dell EMC to route support calls to the appropriate service provider.

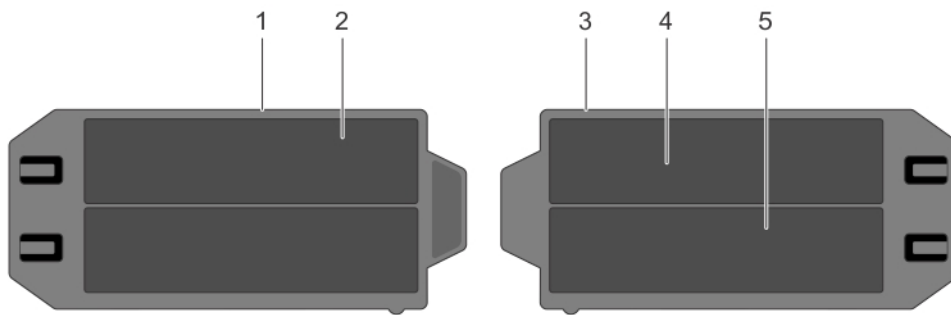


Figure 4. Locating Service Tag of your appliance

- | | | | |
|---|-------------------------------|---|---------------------------------------|
| 1 | information tag (top view) | 2 | information tag (back view) |
| 3 | OpenManage Mobile (OMM) label | 4 | MAC address and secure password label |
| 5 | Service Tag label | | |

Quick Resource Locator for XC6420 systems

Use the Quick Resource Locator (QRL) to get immediate access to system information and how-to videos. This can be done by visiting Dell.com/QRL or by using your smartphone or tablet and a model specific Quick Resource (QR) code located on your Dell EMC appliance. To try out the QR code, scan the following image:



Figure 5. Quick Resource Locator for XC6420 appliance

Bare metal recovery

To maintain a fast and efficient bare metal recovery option, Dell EMC recommends using the Rapid Appliance Self-Recovery (RASR) tool.

⚠ WARNING: When you create a RASR USB disk, all the data saved on the USB disk is deleted.

⚠ WARNING: When you perform a Factory Restore on your appliance with the RASR USB backup disk, all the data saved on the appliance is deleted.

After bare metal recovery deployment, you can create a RASR USB disk by using any of the following methods:

- Creating a RASR USB disk for Hyper-V
- Creating a RASR USB disk for ESXi and AHV

Topics:

- [Creating a RASR USB disk for Hyper-V](#)
- [Creating a RASR USB disk for ESXi and AHV](#)

Creating a RASR USB disk for Hyper-V

- 1 Insert a USB disk that is 16 GB or higher, into an available USB slot of the appliance.
- 2 From the Windows 2016 desktop, double-click the **Make RASR USB disk** icon to launch a utility that creates the RASR USB disk.

ⓘ IMPORTANT: The USB disk contains factory installed configuration information specific for this appliance and must not be used in another appliance. As a best practice, clearly label the newly created USB disk with the appliance's Service Tag.

ⓘ NOTE: This process may take few minutes depending on the speed of the USB device.

Creating a RASR USB disk for ESXi and AHV

- 1 Insert a USB drive that is 16 GB or higher into an available USB slot of the appliance.
- 2 Open the **IDRAC** console, boot to the SD card.
- 3 Select **Local SD Card**.
The RASR screen is displayed.
- 4 Select **Option 2 - creating USB key**.

ⓘ NOTE: This process may take a few minutes depending on the speed of the USB device.