arcserve

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Arcserve Appliance N Series Hardware Installation Guide Lenovo Medium Node HX2321



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Arcserve Appliances N Series Hardware Installation Guide for Lenovo Medium HX2321

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1. Overview

Arcserve N Series Block Diagram

Arcserve UD (N Series co	P 8.x with Sophos	Nutanix Mine (N Series Component) DNS service DHCP service			
•		(N Series Component)	Windows VM		
Node 1	Node 2 Noc		Vmware ESXi or	other hyperviso	r
etwork Swite	ch, Router, Firewall			Intern	et
		••••••		\$2 600 (\$ 600)	Lenovo
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The Medium system is a single node in a 1U chassis, with four 2.5 inch form factor drive bays.

Four nodes are required to form a Nutanix cluster with UDP.

The power button is located on the front right of the chassis.

Full control of the node is available via a web browser using XClarity administrator.

2. Product Ratings

Enclosure Specifications	Description
1U Enclosure Size	Height: 43.0 mm (1.7 inches)
	• Depth: 778.3 mm (30.7 inches) without bezel
	• Width: 482.0 mm (19.0 inches)
	• Weight: 19.0 kg (41.9 lbs)
Acoustical noise	Operation: 6.8 bels
emissions	Idle: 6.2 bels
Heat output	Approximate heat output total:
	Minimum configuration 604.1 BTU per hour (177 watts)
Electrical input	Dual 2000 watt D2 Platinum Power supplies
	Sine-wave input (50-60 Hz) required
	Input voltage low range:
	Minimum: 100 V AC
	Maximum: 127 V AC
	Input voltage high range: 2000 W
	Minimum: 200 V AC
	Maximum: 240 V AC
	Input kilovolt-amperes (kVA), approximately:
	Minimum: 0.153 kVA
	Maximum: 2.61 kVA
Hot swap fans	Seven dual rotor fans

3. Site Preparation

Setup location, rack, and appliance precautions

• Elevated Operating Ambient Temperature - If installed in a closed or multi-unit rack assembly, the operating ambient temperature of the rack environment may be greater than room ambient temperature. Therefore, consideration should be given to installing the equipment in an environment compatible with the maximum ambient temperature (TMA) specified by the manufacturer.

Always keep the rack's front door and all panels and components on the appliances closed when not servicing to maintain proper cooling.

- **Reduced Air Flow** Installation of the equipment in a rack should be such that the amount of air flow required for safe operation of the equipment is not compromised. Leave enough clearance, approximately 25 inches in the front, and 30 inches in the back of the rack to enable you to access appliance components and allow for sufficient air flow.
- Mechanical Loading Mounting of the equipment in the rack should be such that a hazardous condition is not achieved due to uneven mechanical loading

ALL RACKS MUST BE MOUNTED SECURELY. Ensure that all leveling jacks or stabilizers are properly attached to the rack. If installing multiple appliances in a rack, make sure the overall loading for each branch circuit does not exceed the rated capacity.

Do not slide more than one appliance out from the rack at a time. Extending more than one appliance at a time may result in the rack becoming unstable. Install your appliance in the lower part of the rack because of its weight and for ease in accessing appliance components.

- **Circuit Overloading** Consideration should be given to the connection of the equipment to the supply circuit and the effect that overloading of the circuits might have on overcurrent protection and supply wiring. Appropriate consideration of equipment nameplate ratings should be used when addressing this concern.
- **Reliable Earthing** Reliable earthing of rack-mounted equipment should be maintained. Particular attention should be given to supply connections other than direct connections to the branch circuit (for example, use of power strips).
- Install near appropriate AC outlets, and Ethernet hubs or individual jacks. Be sure to install an AC Power Disconnect for the entire rack assembly. The Power Disconnect must be clearly marked. Ground the rack assembly properly to avoid electrical shock.

4. Unpacking the Appliance

When this solution is delivered, verify that the shipment contains everything that was expected.

This solution package includes the following items:

- 1U server, four are required to form a Nutanix cluster
- Rail installation kit
- Cable management arm or cable management bar
- Material box with power cords, rack installation template, and accessory kit
- Software license numbers

Customer Provided Items

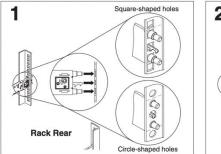
- 19" rack with 1U of available rack space
- Power distribution unit outlets. There are two power cords for the power supplies to connect to the redundant power sources within the rack cabinet
- CAT5 or better LAN cables
- GBICs for fibre or captive GBICs on twinax cables
- Network switch
- DNS network services
- DHCP network services
- Windows Server to run Nutanix Foundation (dedicated or virtual) connected to the same switch as the new appliance to be configured.

5. Installing the Appliance in a Rack

Install the server in a rack that meets the following requirements:

- Minimum depth of 70 mm (2.76 in.) between the front mounting flange and inside of the front door.
- Minimum depth of 157 mm (6.18 in.) between the rear mounting flange and inside of the rear door.

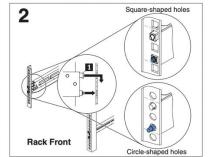
For rack with square-shaped or circle-shaped holes



Installing the rear end of the rails in a rack with non-threaded holes.

Note: The non-threaded holes on the rack will either be square-shaped or circle-shaped.

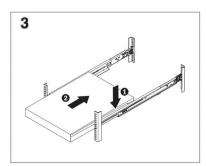
Choose one of the rails for installation. By facing the front side of the racks, line up the pins on the rear of the rail with either the square-shaped or circle-shaped holes on the rear of the rack. Push the rail so that the pins go into the holes and latches into place.



Installing the front end of the rails in a rack with non-threaded holes.

Pull the rail forward and insert the pins **1** on the front of the rail into either the square-shaped or circle-shaped holes on the front of the rack. Drop the rail down until it latches into place.

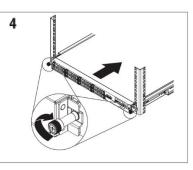
Repeat steps 1 and 2 to install the other rail. Make sure that each rail is securely engaged in the rack. Go to step 3.





Carefully hold the server and tilt it into position over the rails, and then slowly lower the rear of the server on the rails **1**. Make sure that the server sits on the rails securely and push the server **2** all the way into the rack. Depending on your server model, thumbscre available, remember no rack brackets will be present. When you move the rack cabinet, or

If the server comes with latches, the latches click into place when the server is securely installed in the rack.



Tightening the front thumbscrews (for specific models).

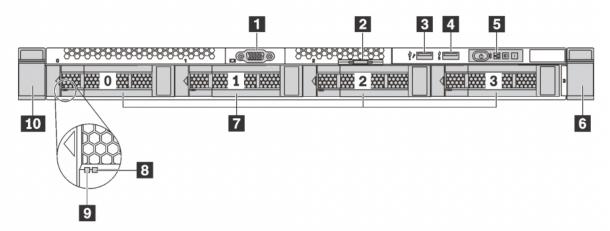
Depending on your server model, thumbscrews are available on the front of the server. If they are available, remember no rack brackets will be present. When you move the rack cabinet, or if you install the rack cabinet in a vibration-prone area, tighten the two thumbscrews on the front of the server to secure the server in the rack cabinet.

Paint X Lite

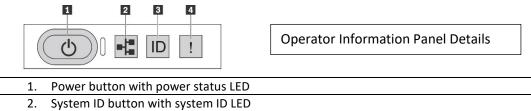
6. Front Panel Operation

Front Panel

From the factory, the node will automatically power on with the initial connection to power. The node has a pushbutton push on/push off power switch.



1.	VGA connector	2. Pull-out information tab
3.	XClarity Controller USB connector.	4. USB 3.0 connector
5.	Operator information panel	6. Rack latch (right)
7.	Hot swap drive bays (4)	8. Drive status LED (yellow)
9.	Drive activity LED (green)	10. Rack latch (left)



Network activity LED
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4. System error LED

Power on button with power status LED

Press the power button to turn on the server. Hold the power button for several seconds to turn off the server if operating system control is not working.

Power LED Status	Color	Description
Solid on	Green	The server is on and running.
Slow blinking (about	Green	The server is off and is ready to be powered on (standby
one flash per second)		state).
Fast blinking (about	Green	The server is off, but the XClarity Controller is initializing, and
four flashes per		the server is not ready to be powered on.
second)		
Off	None	There is no ac power applied to the server.

When first connected to power, the compute node performs a short self-test (power status LED flashes rapidly) and then enters the standby state where the power status LED flashes once per second.

A compute node can be turned on (power LED on) in any of the following ways:

- Press the front panel power button.
- The compute node restarts automatically after a power interruption.
- The compute node responds to remote power-on requests sent to the Lenovo XClarity Controller.

Power off

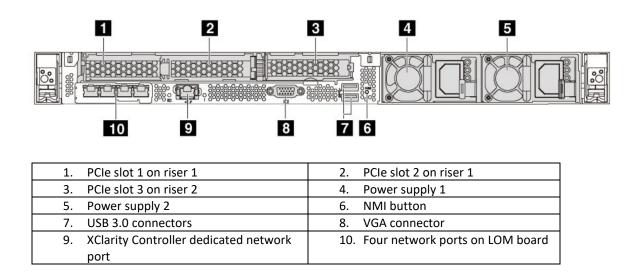
The compute node remains in the standby state when connected to a power source, while Lenovo XClarity Controller is allowed to respond to remote power-on requests. To completely power off the compute node (power status LED off), you must disconnect all power cables.

To power off the node that is in a standby state (power status LED flashes once per second), do the following:

- 1. The Lenovo XClarity Controller places the compute node in a standby state as an automatic response to a critical system failure.
- 2. Start an orderly shutdown using the operating system (if supported by your operating system).
- 3. Press the power button(s) to start an orderly shutdown (if supported by your operating system).
- 4. Press and hold the front power button(s) for more than 4 seconds to force a shutdown.

In the standby state, the compute node responds to remote power-on requests sent to the Lenovo XClarity Controller. The XClarity controller is accessed with a browser-based interface via the dedicated controller LAN port on the rear of the enclosure.

7. Rear Panel Connections and Device Locations



8. System Administration with XClarity Administrator

Lenovo XClarity Administrator runs on a virtual machine to automate discovery, inventory, tracking, monitoring, and provisioning for server, network, and storage hardware. To install the XClarity Administrator according to the Lenovo instructions, click

https://support.lenovo.com/ca/en/solutions/ht507722-installing-lenovo-xclarity-administrator-onvmware-vsphere.

Follow these steps:

- 1. Discover the node IP addresses needed to configure and operate the Nutanix cluster.
- 2. Log into the Lenovo XClarity Administrator using a URL based on the VMware virtual machine IP address that was set during the VM creation. For example: https://192.0.2.10/ui/login.html
- 3. Type the following default username and password:
 - User name: USERID
 - Password: PASSWORD

The username and password are case sensitive. The "o" in password has been replaced with a zero. The first-time login requires a password change. Passwords must meet the following criteria:

- Must contain eight or more characters with at least one number (0 9) and one alphabetical character (a z, A Z)
- Cannot contain space
- Cannot repeat or reverse the user name
- Cannot use more than three of the same characters consecutively
- Must contain at least two of the following combinations:
 - One uppercase alphabetical character
 - One lowercase alphabetical character
 - One of the following special characters:
 - ;@_!'\$&+

Lenovo	
Clarity Administrator	
Version 3.4.0 Host Name: localhest	Then I and the sheet in
English US +	Thank you for choosing Lenovo XClarity Administrator!
Pessword Pessword	This management server is ready to discover and manage your devices. But before you
Login	get started, will you give us feedback on your experience with the initial setup?
Licensed Materialis - Property of Lenovo. © Copyright Lenovo 2015-2021. All Rights Reserved.	No thanks Ask me again later Sure, take me there

- 4. Navigate to the Hardware drop-down list, and then click **Discover and Manage New Devices**.
- 5. To manage a node, select the node checkbox, and then click the **Manage Selected** option to get into node screen.

Record the DHCP issued IP addresses for the nodes.

Dashboard	Hardware +	Provisioning -	Monitoring •	Administration *			
Discover and Man		Inventory Servers 					
the following list does n or more information abo		 Storage Switches 		to discover the device. not discover a device help topic.			
		Chassis					
Imput Manual Input		Racks					
Enable encapsulation		Resource Groups					
Enable encapsulation Discover and Manage New Devices							
inmanage offline devices	Carden Source and a						
		Last SLP discovery					
		Last SLP discovery	: 1 minutes ago 1 ddresses	LP discovery in: Enabled Serial Number	Тури	Type Model	
🔄 📷 Mana		Last SLP discovery		Serial Number	Type Server	Type Model 7Y88-CTO2WW	
Name		Last SLP discovery	ddresses	Serial Number eff.fefc:763 J101VYLT			
🗐 🐻 Mana		Last SLP discovery IP A 10.1 10.1	ddresses 0.127.250, fe80: a94	Serial Number eff felc 763 J 101VYLT eff felc e57 J 101VYLV	Server	7Y88-CT02WW	

Lenovo. XCI	ovo, XClarity Administrator 💦 Report Problem 🖻 Status - 🖻 Jobs - 😝 USERID							
🚱 Dashboard Ha	rdware 👻 Provisioning	g 👻 Monitoring 👻	Administration -					
Chassis								
🔄 🗔 Unmanage Cl	hassis All Actions 👻			Filter By 🔕 🛕	Show:	All Systems 👻		
Chassis	Status	IP Addresses	Groups	Type-Model	Serial Number	Product Name	Firmware (CMM)	
SN#Y030BG4BA020	Normal	169.254.1.4. 169.254.1.3		8721-HC1	23EWD29	Chassis Midplane	1AON01B / 2.4.0 ()	

enovo. 🛛	Clarity	Administrat	or			🐛 Report Problem	🗹 Status 🗵	🗹 Jobs 👻	😫 USERID (1) 🕆
🕰 Dashboard	Hardware 👻	Provisioning 👻	Monitoring 👻	Administration -					
Discover and Mar	nage New Devi	ces							
	but why a device min	ght not be automatically dis		option to discover the device he Cannot discover a device					
Inmanage offline device	s is: Disabled.	-	0 hours ago	SLP discovery is:	abled				
nmanage offline device	s is: Disabled.	j Edit	- 1	SLP discovery is: En	abled Type	Type-Mode	I	Manage Sta	
nmanage offline device	s is: Disabled.	Sedit	Se			Type-Mode 7Y88-CTO2		Manage Sta Ready	tus
nmanage offline device	s is: Disabled.	Edit Last SLP discovery: 30 P Addresses	se fff:fefc: J1	rial Number	Туре		ww		
Inmanage offline device	s is: Disabled.	Edit Last SLP discovery: 30 PAddresses 10.10.127.250, fe80::a94.ei	se sfff:fefc: J1 sfff:fefc: J1	rial Number 01VYLT	Type Server	7Y88-CTO2	ww	Ready	

9. Software Sources

Name	Purpose	Source
Lenovo XClarity Administrator	Discover and manage the nodes	Download from <u>https://datacentersupport.lenovo.com/us/en/solutions/l</u> <u>nvo-lxcaupd</u> . For more information about Lenovo XClarity Administrator, click <u>https://www3.lenovo.com/us/en/data-</u> <u>center/software/systems-management/xclarity/</u>
Nutanix AOS	Acropolis Operating System	Version 5.20 LTS is preloaded on the delivered nodes. Upgrades are available from mynutanix.com. Log into the mynutanix.com, find the blue Launch button for the Support Portal, and then select Downloads .
Nutanix Foundation	Bootstrap, deploy and configure a bare- metal Nutanix cluster from start-to-end, (reload AOS)	Log into the mynutanix.com, find the blue Launch button for the Support Portal, select Downloads , and then look for Essential Tools – Foundation.
Nutanix Prism	Management and operations for virtualized datacenter environments including administration, reporting, and system administration automation	Log into the mynutanix.com, find the blue Launch button for the Support Portal, select Downloads , and then look for Prism Central.
Arcserve N-Series Mine deployment Image	Arcserve Nutanix Mine deployment image bundled with Arcserve Unified Data Protection (UDP) and LBS ISO	Download <u>https://support.arcserve.com/s/article/Arcserve-</u> <u>Appliance-Nseries-UDP-Nutanix-Mine-Build</u>
Windows Server 2019	Run as a VM on the Nutanix cluster as the operating system that runs the Arcserve UDP software and Nutanix Prism	Arcserve provides license with the hardware. To download the ISO image, use the same process that is used for the Arcserve N-Series order fulfillment. For more information, see the How to get Windows Server IOT ISO File below.

How to get the Windows Server 2019 IOT ISO File

1. Customers that have validated the Arcserve orders can use the following link (always the same) from the order confirmation documents. The Product license key is a sticker on the delivered unit.

https://forms.gle/rzEHMxGWptxn5n216

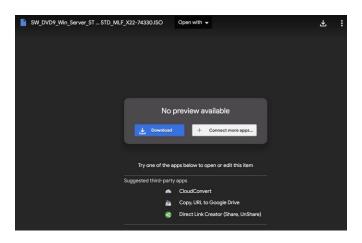
- 2. To request a download link, enter the following details:
 - Free Google account name
 - Email address
 - Order number
 - Name
 - Address
 - Phone Number
- 3. After the form is completed, click the **Submit** button.

A confirmation message appears, and the cited email address gets a confirmation of the request.

4. The Arcserve order administrator validates the request. Within a two-business day interval, the system will generate an email to the customer provided address with a customer specific link. The link of each customer is unique.

	arcserverdownload@gmail.com has shared the following item:	
' SW_0	VD9_Win_Server_STD_CORE_2019_1809.18_648it_English_DC_STD_MLF_X22-	
74330.1		
•		
rcserver	download@gmail.com is outside your organization.	

5. The email recipient clicks the **Open** button to get to the blue Download button. A free Google account login is required to see the Download button. If not logged in, you can provide the Google account credentials with a sign-on button on the upper right corner of the web page.



6. The Windows Server 2019 ISO file is 5.2 GB, which is too big for Google to scan for viruses. Click **Download Anyway** to download.

10. Contact Support

If you encounter any issues with your appliance, visit our Arcserve Support site to search our Knowledge Base for solutions to common problems or to get Live Support for immediate assistance (the serial number is located on rear of appliance) at: arcserve.com/support.

11. Warranty

Each Arcserve Appliance comes with a 3-year hardware warranty. For detailed information about this warranty, visit: <u>arcserve.com/udp-appliance-warranty</u>.

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