

EMC[®] VNXe2 Series

VNXe3200 Installation Guide

P/N 300-015-331 REV 03



Copyright © 2014-2015 EMC Corporation. All rights reserved. Published in USA.

Published November, 2015

EMC believes the information in this publication is accurate as of its publication date. The information is subject to change without notice.

The information in this publication is provided as is. EMC Corporation makes no representations or warranties of any kind with respect to the information in this publication, and specifically disclaims implied warranties of merchantability or fitness for a particular purpose. Use, copying, and distribution of any EMC software described in this publication requires an applicable software license.

EMC², EMC, and the EMC logo are registered trademarks or trademarks of EMC Corporation in the United States and other countries. All other trademarks used herein are the property of their respective owners.

For the most up-to-date regulatory document for your product line, go to EMC Online Support (https://support.emc.com).

EMC Corporation Hopkinton, Massachusetts 01748-9103 1-508-435-1000 In North America 1-866-464-7381 www.EMC.com

CONTENTS

Chapter 1	Unpack your system	5
	Unpack the disk processor enclosure Unpack [optional] disk-array enclosures	6 7
Chapter 2	Prepare your system	11
	Before you begin Installation requirements	12 12
Chapter 3	Rack and install	15
	Install the DPE rails	16
	Installing the DPE adjustable rails	16
	Installing Snap-in Rails	17
	Install the disk processor enclosure	20
	Installing the disk processor enclosure	21
	Install the DAE rails	22
	Install 20 DAE rails	22
	Installing Shap-III Kalls	25
	Install the 211 DAF	20 26
	Cabling the DPE to a DAE	20
	Cable the DPE to DAF	27
	Attach the storage processors to the network	31
	Power up	32
	Verify status LEDs	35
	Attach the bezels	37
Chapter 4	Connect	41
	Connect a management station	42
	Automatically Assigning a Dynamic VNXe Management Port IP Address	42
	Manually Assigning a Static VNXe Management Port IP Address	43

CONTENTS

CHAPTER 1

Unpack your system

Unpack and install the system components. Verify that you have everything that you need to assemble and cable the system.

•	Unpack the disk processor enclosure	6
•	Unpack [optional] disk-array enclosures	.7

5

Unpack the disk processor enclosure

The disk processor enclosure (DPE) is a 2U component with either twelve 3.5" drive slots or twenty-five 2.5" drive slots. Verify that you have received all of the DPE components, including cables, bezel, rail kit, and mounting screws.

 Table 1 DPE container contents

Item	
Disk processor enclosure (DPE) - 2U component with either 12 3.5" drive slots or 25 2.5" drive slots	Twelve 3.5" drive slots
Rail kit, including Adjustable rails (2) Adjustable rails and DPE mounting screws (10) or Snap-in rails (2) Snap-in rails and DPE mounting screws (6)	Adjustable rails

6 EMC VNXe2 Series VNXe3200 Installation Guide





Unpack [optional] disk-array enclosures

Disk-array enclosures (DAEs) provide additional storage. The VNXe3200 can utilize either of two DAEs. One is a 2U twelve disk 3.5" drive DAE. The other is a 2U twenty-five disk 2.5" drive DAE. DAEs are optional. If you have one or more DAE in the system, verify that you have received all of the DAE components, including cables, bezel, rail kit, and mounting screws.

Table 2 DAE container contents



Table 2 DAE container contents (continued)

Item	
	Snap-in rails
Power cables (2)	
SAS cables (2) mini-SAS to mini-SAS connectors DAE to DAE connections cable label sheet	
SAS cables (2) mini-SAS HD to mini-SAS connectors DPE to DAE connections cable label sheet	
Bezel (1), with key	

Unpack your system

CHAPTER 2

Prepare your system

Use this section to understand what you need before you begin the installation as well as the site requirements for the system.

•	Before you begin	12
•	Installation requirements	12

Before you begin

Procedure

1. Set up a product support account.

If you do not already have a Product Support account, go to https:// support.emc.com/products/30951 to set one up. You will need a support account to access the latest documentation and troubleshooting information, online chat, installation and maintenance videos, utilities and wizards.

2. Complete the VNXe Series Configuration Worksheet.

The *VNXe Series Configuration Worksheet* is available for download from https://support.emc.com/products/30951.

Installation requirements

Table 3 Site requirements

Requirement	Description		
Power	For high availability: At least two 110 or 240 V AC circuits are required. Types of plugs: C13 and C14.		
Network	Two 1-gigabit Ethernet management connections		
	 Two to eight 1 or 10-Gigabit copper Ethernet data connections for CIFS NFS, and iSCSI connectivity 		
	• CAT5e or better cables for each connection to the network		
	• DNS and NTP servers accessible from the VNXe system (recommended)		
	Windows Domain Controller (recommended)		
	• SMTP server network connection to the VNXe3200 and the management host (optional)		
Network information	If you are using the VNXe Connection Utility, the management port and the login information required include:		
	A static IP address for the system		
	• The subnet mask of the LAN to which the system is connected		
	• The default gateway address of the LAN to which the system is connected		
	Passwords for system users admin and service		
	If you are setting up the system on a network with DHCP servers, DNS servers, and Dynamic DNS services, you need:		
	System serial number		
	Domain information		
Space	• Cabinet vertical space 2U (3.5 inches, 8.9 cm) for the disk processor enclosure (DPE)		
	Cabinet vertical space of 2U for each optional DAE		

Table 3 Site requirements (continued)

Requirement	Description
Tools	Slotted or Phillips screwdriver
Management Console	A Windows-based computer to run the initialization, maintenance, and management tools with:
	• At least 100 MB of free space
	Connection on same LAN subnet as your VNXe system (recommended)
	Web browser (Internet Explorer, Mozilla Firefox, Google Chrome)*
	Adobe Flash Player*
	*Supported versions are listed in the EMC VNXe Simple Support Matrix.

Prepare your system

CHAPTER 3 Rack and install

EMC recommends installing the disk processor enclosure (DPE) in the lowest available location in a cabinet and then installing any optional disk-array enclosure (DAEs) above the DPE.

ACAUTION

The enclosures are heavy and should be installed into or removed from a rack by two people. To avoid personal injury and/or damage to the equipment, do not attempt to lift and install an enclosure into a rack without a mechanical lift and/or help from another person.

•	Install the DPE rails	16
•	Install the disk processor enclosure	20
•	Installing the disk processor enclosure	21
•	Install the DAE rails	22
•	Install the disk array enclosure	
•	Cabling the DPE to a DAE	
•	Cable the DPE to DAE	
•	Attach the storage processors to the network	
•	Power up	
•	Verify status LEDs	35
•	Attach the bezels	

Install the DPE rails

Among the DPE components is a rail kit. The rail kit will contain either a set of snap-in rails or a set of adjustable rails. Either set of rails can be used. To install the rails, follow the instructions that are specific to the type of rails in the kit.

Installing the DPE adjustable rails

Before you begin

Install the DPE rails first, at the bottom of the space reserved for the system in your cabinet. The DPE box provides a set of adjustable rails and one bag of screws for the installation. Those screws are used for both the installation of the rails and attaching the enclosure to the cabinet. Refer to Figure 1 on page 17.

Note

The front edge of each rail is stamped L or R for left or right side when the rail faces the cabinet front.

Procedure

1. Locate the 2U adjustable rail kit for the DPE, and identify the rails.

The left rail for the DPE has an electronic connector for the bezel protruding from the front face.

- 2. From the front of the cabinet, insert the rail alignment pins into the rear cabinet channel so that the pins are in the appropriate holes above the bottom U mark for the 2U space for the DPE.
 - Left rail: Alignment pin goes in the 3rd hole from the bottom U mark
 - Right rail: Alignment pin goes in the 4th hole from the bottom U mark
- 3. Extend the left adjustable rail so that it reaches the front channel of the cabinet and carefully ensure that the electronic connector aligns with and extends through a hole in the cabinet channel. Check the alignment of the rail to ensure that the front of the rail is level with the back. Once you are satisfied with the alignment, insert one screw from the front of the cabinet into the rail's threaded screw hole.
- 4. Insert, extend, and attach the right rail in a similar fashion. Secure it to the front channel using one screw.
- 5. Secure the rails to the rear channel using two screws (each side), leaving them loose enough for adjustment when you install the DPE on the rails.





Installing Snap-in Rails

This procedure describes how to install the snap-in rails.

Before you begin

The snap-in rails have key tabs. The key tabs are positioned at the rear of the rails. The key tabs ensure that the rails are installed in the appropriate 2U space.

Rails are dedicated left and right, and cannot be interchanged. Depending upon the configuration, the left rail may contain a field bezel cord cover. Rails that have this cover are installed in the same way.

Procedure

1. Align the 2U key tabs with the holes of the U-space in the rear rack channel.





2. Holding the rail extended, push the key tabs and the adaptors into the rear mounting holes until the spring clips snap into place on the outside of the rear rack channel.

Figure 3 Aligning the Rear Adaptors



3. Pull the rail forward and align the adaptor with the mounting hole on the front rack channel. Make sure the rail is level.

Figure 4 Aligning Front Adaptor



4. Push in on the spring clip while pulling forward on the rail. When the spring clip is forward of the front rack channel, and the adaptor is in the mounting holes, release the spring clip so it holds the rail in place.

ACAUTION

Make sure the spring clip is securely attached to the channel. It may be necessary to push in on the clip to assist in snapping it into place.





5. From the rear of the rack, secure the rail in place using one M5 screw.

Figure 6 Installing the M5 Screw



6. Repeat for the other rail.

Install the disk processor enclosure

There are two types of DPE(s). Each is 2U. One utilizes 3.5" disks, while the other utilizes 2.5" disks. The installation procedure is identical, no matter which one you have in your system. Each DPE contains dual storage processors.

Figure 7 DPE front views



The DPE has a Product Serial Number Tag (PSNT tag) attached to the rear of the chassis. Before installation of the chassis, record the information from this PSNT tag on the VNXe Series Configuration Worksheet. See Figure 8 on page 21. Figure 8 PSNT tag on the rear of the DPE chassis



Installing the disk processor enclosure

The enclosures are heavy and should be installed into or removed from a rack by two people. To avoid personal injury and/or damage to the equipment, do not attempt to lift and install an enclosure into a rack without a mechanical lift and/or help from another person.

Procedure

1. Lift the enclosure and, from the front of the cabinet, slide the DPE onto the 2U DPE rails in the cabinet.

When the enclosure slides into the back of the cabinet, a rear tab on each rail hooks onto the rear of the enclosure side. The tabs secure and support the rear of the enclosure. See Figure 9 on page 21. Figure 9 Location of securing tabs



If the enclosure does not slide all the way into the cabinet, you may need to further loosen the screws that hold the rear of the rails in place, and then adjust the rails to allow the tabs to fit onto the enclosure sides.

21

2. Secure the front of the enclosure to the front vertical channels of the cabinet using four screws (two per side) into the DPE bracket screw holes and into the cabinet as shown in Figure 10 on page 22. It may be easier to install the screws working in a diagonal pattern, such as bottom left and top right, bottom right and top left.

Figure 10 Securing the enclosure to the front of the cabinet



3. Once the DPE is in place, tighten all the screws.

Install the DAE rails

Among the DAE components is a rail kit. The rail kit will contain either a set of snap-in rails or a set of adjustable rails. Either set of rails can be used. To install the rails, follow the instructions that are specific to the type of rails in the kit.

Install 2U DAE rails

The following procedure shows you how to install 2U DAE rails.

Procedure

1. Install the 2U DAE rails into the cabinet.

The DAE rails should be installed above the topmost component in the cabinet. The rails must be aligned carefully so that they are level front to back and with the companion rail left to right.

Refer to Figure 11 on page 23 while performing the procedure that follows.

- a. Insert the adjustable rail slide and seat both alignment pins into the rear channel of your cabinet.
- b. Extend the rail and align the front of the rails.
- 2. Insert one screw in the lowest hole of the front and two in the back of each rail.

Figure 11 Installing 2U DAE rails



Installing Snap-in Rails

This procedure describes how to install the snap-in rails.

Before you begin

The snap-in rails have key tabs. The key tabs are positioned at the rear of the rails. The key tabs ensure that the rails are installed in the appropriate 2U space.

Rails are dedicated left and right, and cannot be interchanged. Depending upon the configuration, the left rail may contain a field bezel cord cover. Rails that have this cover are installed in the same way.

Procedure

1. Align the 2U key tabs with the holes of the U-space in the rear rack channel.

Figure 12 Aligning the Key Tabs



2. Holding the rail extended, push the key tabs and the adaptors into the rear mounting holes until the spring clips snap into place on the outside of the rear rack channel.

Figure 13 Aligning the Rear Adaptors



3. Pull the rail forward and align the adaptor with the mounting hole on the front rack channel. Make sure the rail is level.

Figure 14 Aligning Front Adaptor



4. Push in on the spring clip while pulling forward on the rail. When the spring clip is forward of the front rack channel, and the adaptor is in the mounting holes, release the spring clip so it holds the rail in place.

ACAUTION

Make sure the spring clip is securely attached to the channel. It may be necessary to push in on the clip to assist in snapping it into place.





5. From the rear of the rack, secure the rail in place using one M5 screw.

Figure 16 Installing the M5 Screw



6. Repeat for the other rail.

Install the disk array enclosure

ACAUTION

The enclosures are heavy and should be installed into or removed from a rack by two people. To avoid personal injury and/or damage to the equipment, do not attempt to lift and install an enclosure into a rack without a mechanical lift and/or help from another person.

There are two types of disk array enclosures (DAEs). Each requires 2U vertical space (3.5 inches, 8.9 cm). One utilizes 3.5" disks, while the other utilizes 2.5" disks. The installation procedure is almost identical, with the exception of the following caution when using snap-in rails.

ACAUTION

Do not install the enclosure without the rear rail screws installed and fully tightened. If the screws are not installed and tightened, the rails could rotate out of position, possibly causing the enclosure to fall, causing damage to the DAE and causing personnel injury.

Install the 2U DAE

Refer to Figure 17 on page 27 when installing a 2U DAE.

Procedure

1. Slide the disk-array enclosure (DAE) into the DAE rails in the cabinet.

Ensure that the enclosure is fully seated in the cabinet. The rail securing tabs/stops in the back will seat into the back of the enclosure at the correct depth, and the front of the enclosure will be flush with the cabinet face.

2. When the DAE is in place, insert and tighten all of the screws.

It may be easier to install the screws working in a diagonal pattern, such as bottom left and top right, bottom right and top left.

Figure 17 Installing a 2U DAE in the rails



Cabling the DPE to a DAE

If you have one or more DAEs, these components must be cabled to the DPE so that the storage is available in the system.

The DPE contains dual storage processors, labeled SP A and SP B. The cables and cable labels identify connections for sides A and B as well.

Cabling between the DPE and a DAE uses two 2-meter mini-SAS HD to mini-SAS cables. These cables connect ports 0 and 1 on each SP of the DPE to Link Controller Card (LCC) ports on the DAEs. The DPE-to-DAE cables are shipped in the DAE box while the cable labels are packaged in the DPE shipping box. See the cables in Figure 18 on page 28. The DAE shipping container also contains two mini-SAS to mini-SAS cables. They have a single diamond \blacklozenge on one connector and a single circle \blacksquare on the other connector. These cables can be used for DAE-to-DAE cabling. They are not used for DPE-to-DAE cabling.

The VNXe system supports two back-end ports for connection to storage (DAEs). Port 0 is connected internally to the SAS expander that connects all the disks in the DPE. Since

Port 0 is already connected internally to the DPE disks, the first DAE is connected to Port 1 to balance the load on the SAS ports. A second loop can connect to port 0 of each SP.

Cable labels are included in a cable label kit should you wish to attach the labels to the cables as you install them. Labeling the cables may assist in troubleshooting if a problem arises in the future.

Cable the DPE to DAE

Procedure

1. Locate the SAS cables from the DAE box. They have mini-SAS HD connections on one end and mini-SAS connections on the other, as shown in Figure 18 on page 28. You need 2 of these cables. The other pair of cables have mini-SAS connections on both ends and can be used for additional DAEs.

Note

Cables are shipped without labels attached. Identify the cables by the connectors. The cables and ports are not colored. Bus 1 uses blue labels. Bus 0 uses orange labels.

Figure 18 SAS cables from DPE to DAE



- 2. Locate the sheet of cable labels in the DAE box.
- 3. Attach the cable labels to the cables as shown in Figure 19 on page 29.



Figure 19 Attaching cable labels to the mini-SAS cables

- 4. Connect SP A SAS Port 1 to DAE 1 Link Controller Card (LCC) A. See cable 1.
- 5. Connect SP B SAS Port 1 to DAE 1 LCC B. See cable 2. Make sure the cables are installed properly and connected securely. Ensure that the release tabs on the mini-SAS HD end of the cables going into the DPE, SAS ports 0 and 1, on both SPs are up. See Figure 22 on page 30.



Figure 20 SAS cabling between the DPE and DAE1 for a 3.5" disk DAE



Figure 21 SAS cabling between the DPE and DAE1 for a 2.5" disk DAE

Figure 22 Inserting mini-SAS HD connector into the SAS ports of the DPE



- 6. (optional) Connect SP A SAS Port 0 to DAE 2 LCC A. See cable 3 in Figure 23 on page 31.
- 7. (optional) Connect SP B SAS Port 0 to DAE 2 LCC B. See cable 4.
- 8. If you have additional DAEs, add labels to the mini-SAS to mini-SAS cables and use them to extend the loops as shown in Figure 23 on page 31.

Figure 23 on page 31 shows an example of DPE to DAE cabling of a system with 5 optional DAEs in an interleaved arrangement as follows:

- DAE 5 (Bus 1/Enc 2)
- DAE 4 (Bus 0/Enc 2)
- DAE 3 (Bus 1/Enc 1)
- DAE 2 (Bus 0/Enc 1)
- DAE 1 (Bus 1/Enc 0)
- DPE (Bus 0/Enc 0)

For more information about interleaved as well as stacked cabling and buses and enclosure IDs, refer to the *VNXe3200 Hardware Information Guide*.

30 EMC VNXe2 Series VNXe3200 Installation Guide



Figure 23 SAS cabling between the DPE and DAEs

Attach the storage processors to the network

Procedure

- 1. Locate two CAT5e or better Ethernet cables.
- 2. Connect two Ethernet cables from the LAN to the 1 Gb RJ45 ports labeled management from which you will configure the system. This will be one port on each storage processor. See Figure 24 on page 32.

Note

The SP A and SP B network data ports must be connected on the same subnet. In general, both SPs should have mirrored configurations in order to provide failover.



Figure 24 Cabling the storage processors to the network

3. Attach Ethernet and/or Fibre Channel cables to the DPE ports, whether those built in to each SP or those on an I/O module, that you wish to use in order to create interfaces.

This step is optional and can be done at a later time. Only the management network cables installed in the previous step are required at this time.

Note

Additional information about the ports and cabling is in the *VNXe3200Hardware Information Guide*, available on the https://support.emc.com/products/30951.

Power up

Procedure

- 1. Verify that the cabinet circuit breakers are in the On position and that power is connected to the cabinet.
- 2. For each power cable, plug the cable into the system component and secure it with the clip as shown Figure 26 on page 33 and then plug the other end of the cable into the Power Distribution Unit (PDU).

Figure 25 DPE power cable clips



3. Connect the power to the DPE. Connect the power supply for SP A to PDU A . Connect the power supply for SP B to PDU B.

The cable to PDU A is gray. The cable to PDU B is black. **Figure 26** Power cables to the DPE



4. Connect the power cables to optional DAEs. Connect the power cable for LCC A to PDU A. Connect the power cable for LCC B to PDU B.

Both DAE power cables are black. There is no difference between them. The enclosures start powering up immediately once they are connected to AC power.





Figure 28 Power cables to DAE with 3.5" drives



5. Ensure that the DAE power cables are also clipped in place.





Figure 30 Power cable clips for the 2U 12-disk DAE



6. Dress the cables as necessary.

It takes approximately 10-15 minutes for the system to power up. Monitor the system as it powers up. The LEDs show the progress of system activation. Green, blue, and amber activity lights blink during the startup sequence. Review the next section for information on the power up states.

Note

For information about powering down the system, see "Shut down the system" in the Unisphere online help system.

Verify status LEDs

The system should be available in approximately 15 minutes. Table 4 on page 36, Figure 32 on page 37, and Figure 33 on page 37 call out only the LEDs that you need to verify to ensure that the system powered up correctly.

▲ ▲ Δ **(+)** © 1 0 oc \bigcirc • • ●•e0 0 **----*** 2 1 3

Figure 31 SP LEDs on the rear side of DPE

Physical indications that the storage system is up and running without error:

Table 4 LEDs

Light Emitting Diodes (LEDs)	Location	Status	Color	Notes
SP A/B Power	DPE Rear	On	Green	
SP Status/Fault	DPE Rear	BlinkingOn	 Blue, blinking amber once every three seconds Blue 	 System not yet initialized. No IP address is assigned. A management IP address has been assigned.
Ethernet I/O	DPE Rear	On	Green	
DPE enclosure fault	DPE Front	Off	N/A	
DPE enclosure power	DPE Front	On	Blue	
System disk drives in DPE	DPE Front	On	Blue	disks 0-3 of the DPE

Note

The system disk drives are identified by a label over them, as shown in Figure 32 on page 37 and Figure 33 on page 37.

The *VNXe3200 Hardware Information Guide* provides more details on all system LEDs. **Figure 32** 2U 3.5" drive DPE front LEDs



Figure 33 2U 2.5" drive DPE front LEDs



Note

The array is powered up and ready to run the Connection Utility once the SP Fault/Status LEDs show a blue with amber blinking sequence every three seconds. If the system is on a network with a DNS server and DHCP, the management IP address can be assigned automatically and those LEDs will be solid blue. Ensure that the power-up is complete and that the system is ready before you continue.

Attach the bezels

Procedure

- 1. Locate the bezels for each installed component.
- 2. Attach the bezel that corresponds to each component as shown in Figure 34 on page 38.

Figure 34 Attaching the bezels



The DPE bezel will press in place against the bezel connector on the left rail. Each bezel can be locked in place by turning the key one quarter turn clockwise.

3. Plug in the cable to light the bezel cover the DPE. See Figure 35 on page 39.

Figure 35 Cable for the lighted DPE bezel



Rack and install

CHAPTER 4

Connect

After you finish installing, cabling, and powering up the system, the system must acquire an IP address for its management interface before you can register, license, or configure it.

•	Connect a management station	42
•	Automatically Assigning a Dynamic VNXe Management Port IP Address	42

Connect a management station

Note

At the end of the power-up process, the SP Status/Fault LEDs blink blue/amber, indicating that the system is ready to run the Connection Utility.

You must connect a management station to your system directly or remotely over a subnetwork. This computer will be used to continue setting up your system and must be on the same subnet as the storage system to complete the initialization.

NOTICE

Check to see if there is security software running on your workstation/laptop such as Cisco Security Agent or McAfee Host Intrusion Prevention Service that may prevent the initialized system from being detected. If there is, disable it (Windows Services) before running the initialization.

The system management ports support both IPv4 and IPv6. You can assign an IP address to a system in the following ways:

- If you are running system on a dynamic network that includes a DHCP server and a DNS server, the management IP address can be assigned automatically as explained in Automatically Assigning a Dynamic VNXe Management Port IP Address on page 42.
- If you are not running the VNXe in a network that supports DHCP or you would rather manually assign a static IP address, you must install and run the Connection Utility as explained in Manually Assigning a Static VNXe Management Port IP Address on page 43.

Automatically Assigning a Dynamic VNXe Management Port IP Address

Assigning an IP address to a VNXe system management port dynamically requires the following:

- Network DNS server (with dynamic DNS services enabled)
- Network DHCPv4 server and/or a DHCPv6 server and/or a router advertising DNS servers
- Connectivity between the VNXe system, the DHCP server, and the DNS server

The DHCP server must be configured to automatically register DHCP clients with Dynamic DNS services. By default, VNXe systems are configured to use DHCP for IP assignment and will accept an IP address offered by a network DHCP server.

Perform the following steps to automatically assign an IP address to your VNXe system management port:

Procedure

- 1. After you power up the VNXe system, check the SP Fault/Status LEDs
 - If the SP Fault/Status LEDs are solid blue, a management IP address has been assigned

42 EMC VNXe2 Series VNXe3200 Installation Guide

- If the Fault/Status LEDs are blue and flash amber every three seconds, no management IP address has been assigned. Check the connectivity between the system, the DNS server, and the DHCP server.
- 2. Open a web browser and access the management interface specifying the following as a URL in the browser's address bar: serial_number.domain

where

Table 5 URL string

URL string	Description
serial_number	Serial number of your VNXe. You can find this in the packing materials that came with your VNXe (for example, FNM00131800283). It is also on the PSNT tag on the back of the DPE.
domain	Network domain on which the VNXe system is located (for example, mylab.eme.com).

Based on the examples provided in this table, the URL to the VNXe system would be FNM00131800283.mylab.emc.com.

Note

If a certificate error appears, follow the instructions in your browser to bypass the error.

3. Confirm that the SP Status/Fault LEDs are now out.

This provides an indication that the system's IP address has been set.

4. Continue with the steps outlined in the VNXe Quick Start Guide.

The VNXe Quick Start Guide provides an overview of the steps remaining to configure, register, license, and update the software on your system.

Manually Assigning a Static VNXe Management Port IP Address

If you want to manually assign a static IP address for the VNXe system management port, you must install and run the Connection Utility. The Connection Utility assigns a network address to the VNXe system.

Procedure

- 1. Download and run the Connection Utility software.
 - a. Download the Connection Utility installation program from the EMC Online Support website (https://support.emc.com), under the **Downloads** selection on the menu bar of the product page for your storage system.
 - b. Install the Connection Utility software on a Windows computer. To use the Auto Discover method discussed below, install on a computer in the same subnet as the VNXe management port.
 - c. Launch the Connection Utility (under Windows, Start > Programs > EMC > Connection Utility).
- 2. Use the Connection Utility to assign a Management IP address to your VNXe system.

After running the Connection Utility, select one of the following options:

- Select Auto Discover (recommended) and click Next to assign a Management IP address to a VNXe system on the local subnet.
 - a. View VNXe systems on the subnet, select the Product ID/SN of the system you are currently attempting to install and configure, and click **Next**. If you don't see your VNXe system, click **Discover** to scan the subnet again. (Make sure that the system is active and connected to the network.)
 - b. Specify a name, an IP address, subnet mask, and default gateway for the VNXe system, and click **Next**.
 - c. The Configuration Summary screen appears. When all entries are complete, click **Finish**. The Configuring the VNXe Device screen appears while the settings are implemented. The setup can take up to 10 minutes.
 - d. Click Start Unisphere to log in to Unisphere on the selected system.
- Or select Manual Configuration and click **Next** to assign a Management IP address to a VNXe system on another subnet.
 - a. Specify a name, an IP address, subnet mask, and default gateway for the VNXe system and then click **Save file to flash drive**.
 - b. Connect the flash drive to the mini-USB port on either storage processor of the VNXe system to assign the IP address to the system.

Note

Use an adaptor if you are using a full-sized USB flash drive. A mini-USB adaptor is included in the DPE system box. Insert the mini-USB adaptor into the mini-USB port on SP A and connect to your flash drive.

- c. Open a web browser to the IP address assigned to the VNXe system.
- 3. Confirm that the SP Status/Fault LEDs are now out, which indicates that the system's IP address has been set.
- 4. Continue with the steps in the VNXe Quick Start Guide. The VNXe Quick Start Guide provides an overview of the steps remaining to configure, register, license, and update the software on your system.