



Install and setup

Install and maintain

NetApp
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Install and setup

Start here: Choose your installation and setup experience

For most configurations, you can choose from different content formats.

- [Quick steps](#)

A printable PDF of step-by-step instructions with live links to additional content.

- [Video steps](#)

Video step-by-step instructions.

- [Detailed steps](#)

Online step-by-step instructions with live links to additional content.

If your system is in a MetroCluster IP configuration, see the [Install MetroCluster IP Configuration](#) instructions.

Quick guide - FAS2820

This guide gives graphic instructions for a typical installation of your system from racking and cabling, through initial system bring-up. Use this guide if you are familiar with installing NetApp systems.

Access the *Installation and Setup Instructions* PDF poster:

[FAS2820 Systems Installation and Setup Instructions](#)

Video steps - FAS2820

The following video shows how to install and cable your new system.

[Animation - FAS2820 Installation and setup instructions](#)

Detailed steps - FAS2820

This procedure gives detailed step-by-step instructions for installing a typical NetApp storage system. Use this procedure if you want more detailed installation instructions.

Step 1: Prepare for installation

Before you begin

You need to provide the following at your site:

- Rack space for the storage system in either a telco rack or system cabinet.
 - 2U for the storage system

- 2U or 4U for each drive shelf in your system
- Phillips #2 screwdriver
- Additional networking cables to connect your storage system to your network switch and laptop or console with a Web browser
- A laptop or console with an RJ-45 connection and access to a Web browser
 - Access to the [NetApp Hardware Universe](#) for information about site requirements as well as additional information on your configured storage system.
 - You might also want to have access to the [Release Notes for your version of ONTAP 9](#) for your version of ONTAP for more information about this storage system.

Steps

1. Unpack all boxes and inventory the contents.



Customers with specific power requirements must check [NetApp Hardware Universe](#) for their configuration options.

2. Access the [Configure ONTAP on a new cluster with System Manager](#)

- a. Review the requirements and procedure steps.
- b. Gather information about your storage system by completing the [setup worksheet](#)^ (need the URL to the worksheet).
- c. Record the storage system serial number from the controllers.

SSN: XXYYYYYYYYYYYY



The following table identifies the types of cables you might receive. If you receive a cable not listed in the table, see the [NetApp Hardware Universe](#) to locate the cable and identify its use.

Type of cable...	Part number and length	Connector type	For...
10 GbE, SFP28 cable (order dependent)	X6566B-05-R6, .5, X6566B-2-R6, 2m		Network cable
25Gb Ethernet, SFP28	X66240A-05, .5m X66240-2, 2m X66240A-5, 5m		Network cable
32Gb Fiber Channel, SFP+ (target/initiator)	X66250-2, 2m X66250-5, 5m X66250-15, 15m		FC network

Type of cable...	Part number and length	Connector type	For...
Cat 6, RJ-45 (order dependent)	X6561-R6 X6562-R6		Management network and Ethernet data
Storage	X66030A, 0.5m		Storage
	X66031A, 1m		
	X66032A, 2m		
USB-C console cable	No part number label		Console connection during software setup on non-Windows or Mac laptop/console
Power cables	No part number label		Powering up the storage system
Optional FC cable	Optional FC cable		Additional FC network cable

Step 2: Install the hardware

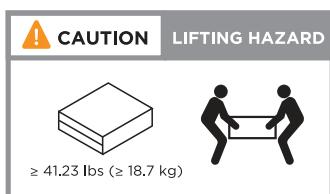
Install your storage system in a telco rack or NetApp storage system cabinet, as applicable.

Steps

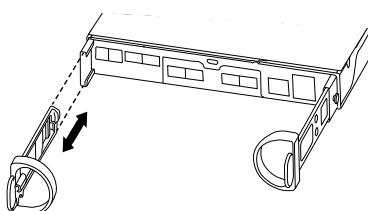
1. Install the rail kits, as needed.
2. Install and secure your storage system using the instructions included with the rail kit.



You need to be aware of the safety concerns associated with the weight of the storage system.



3. Attach cable management devices (as shown).



4. Place the bezel on the front of the storage system.

Step 3: Cable controllers to your network

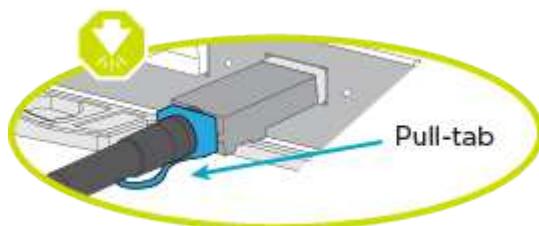
Cable the controllers to your network as either a two-node switchless cluster or a switched cluster.

The following table identifies the cable type with the call out number and cable color in the illustrations for both two-node switchless cluster and switched cluster.

Cabling	Connection type
1	Cluster interconnect
2	Management network switch
3	Host network switches

Before you begin

- Contact your network administrator for information about connecting the storage system to the switches.
- Check the illustration arrow for the proper cable connector pull-tab orientation.
 - As you insert the connector, you should feel it click into place; if you do not feel it click, remove it, turn the cable head over and try again.
 - If connecting to an optical switch, insert the SFP into the controller port before cabling to the port.



You can use either the applicable animation or detailed steps in the table to cable your controllers to your network.

[Animation - Cabling a two-node switchless cluster cabling](#)

[Animation - Switched cluster cabling](#)

Option 1: Cable a two-node switchless cluster

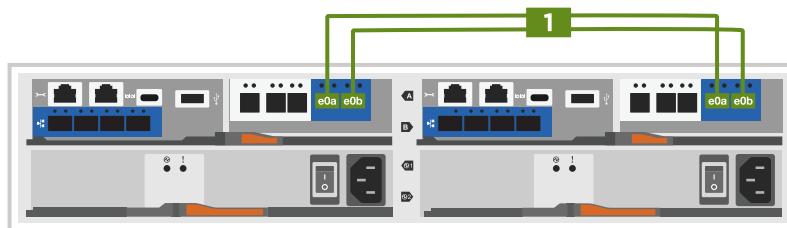
Cable your network connections and your cluster interconnect ports for a two-node switchless cluster.

Steps

1. Cable the cluster interconnect ports e0a to e0a and e0b to e0b with the cluster interconnect cable:



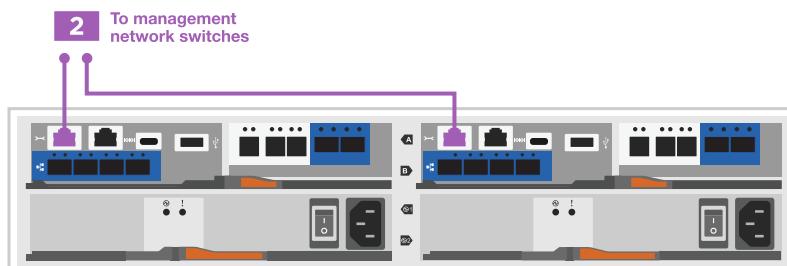
Cluster interconnect cables



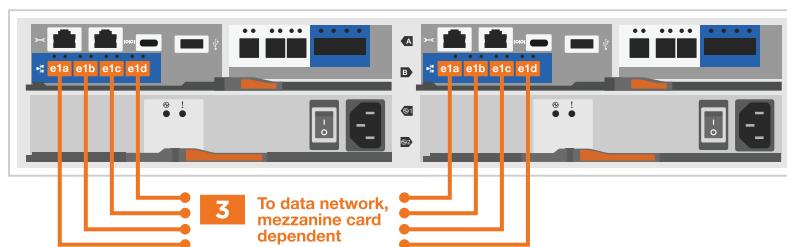
2. Cable the e0M ports to the management network switches with the RJ45 cables:



RJ45 cables



3. Cable the mezzanine card ports to your host network.



- a. If you have a 4-port Ethernet data network, cable ports e1a through e1d to your Ethernet data network.

- 4-ports, 10/25Gb Ethernet, SFP28



- 4-ports, 10GBASE-T, RJ45



b. If you have a 4-port Fiber Channel data network, cable ports 1a through 1d for your FC network.

- 4-ports, 32Gb Fiber Channel, SFP+ (target only)



- 4-ports, 32Gb Fiber Channel, SFP+ (initiator/target)



c. If you have a 2+2 card (2 ports with Ethernet connections and 2 ports with Fiber Channel connections), cable ports e1a and e1b to your FC data network and ports e1c and e1d to your Ethernet data network.

- 2-ports, 10/25Gb Ethernet (SFP28) + 2-ports 32Gb FC (SFP+)



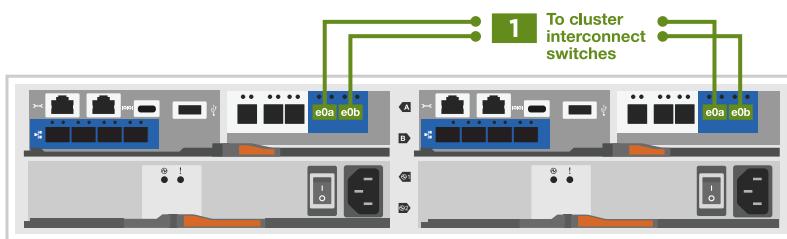
DO NOT plug in the power cords.

Option 2: Cable a switched cluster

Cable your network connections and your cluster interconnect ports for a switched cluster.

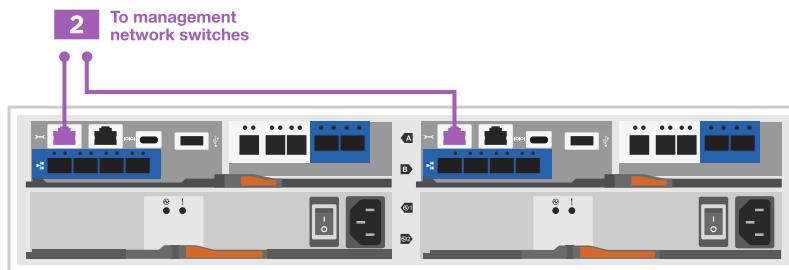
Steps

1. Cable the cluster interconnect ports e0a to e0a and e0b to e0b with the cluster interconnect cable:

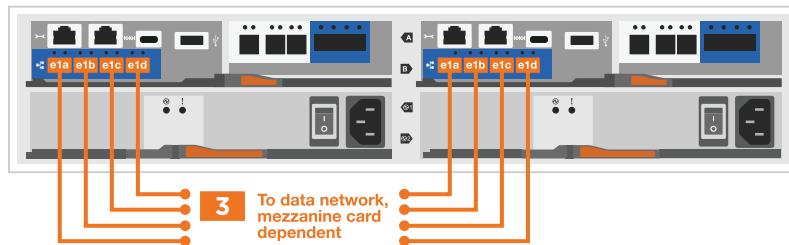


2. Cable the e0M ports to the management network switches with the RJ45 cables:





3. Cable the mezzanine card ports to your host network.



a. If you have a 4-port Ethernet data network, cable ports e1a through e1d to your Ethernet data network.

- 4-ports, 10/25Gb Ethernet, SFP28



- 4-ports, 10GBASE-T, RJ45



b. If you have a 4-port Fiber Channel data network, cable ports 1a through 1d for your FC network.

- 4-ports, 32Gb Fiber Channel, SFP+ (target only)



- 4-ports, 32Gb Fiber Channel, SFP+ (initiator/target)



c. If you have a 2+2 card (2 ports with Ethernet connections and 2 ports with Fiber Channel connections), cable ports e1a and e1b to your FC data network and ports e1c and e1d to your Ethernet data network.

- 2-ports, 10/25Gb Ethernet (SFP28) + 2-ports 32Gb FC (SFP+)





DO NOT plug in the power cords.

Step 4: Cable controllers to drive shelves

Cable your controllers to external storage.

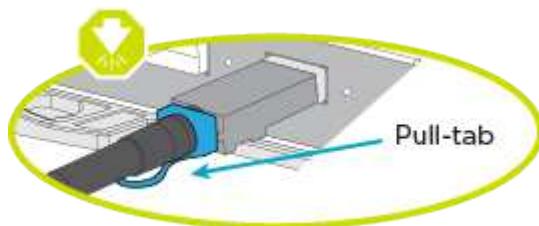
The following table identifies the cable type with the call out number and cable color in the illustrations for cabling your drive shelves to your storage system.



The example uses DS224C. Cabling is similar with other supported drive shelves. See [Install and cable shelves for a new system installation - shelves with IOM12/IOM12B modules](#) for more information.

Cabling	Connection type
1	Shelf-to-shelf cabling
2	Controller A to the drive shelves
3	Controller B to the drive shelves

Be sure to check the illustration arrow for the proper cable connector pull-tab orientation.



About this task

Use the animation or the step-by step instructions to complete the cabling between the controllers and to the drive shelves.

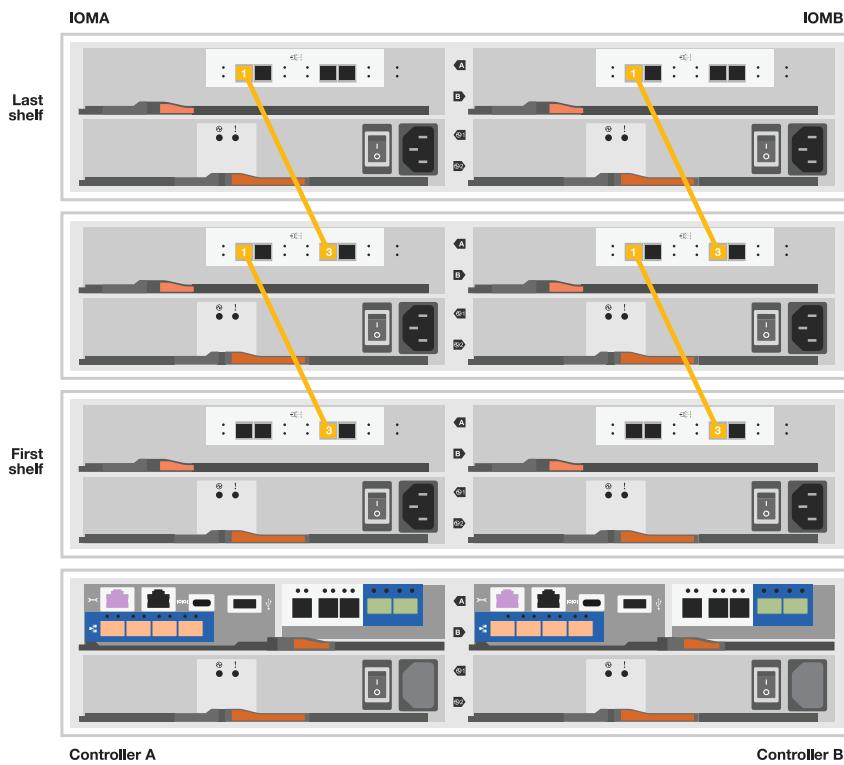


Do not use port 0b2 on a FAS2820. This SAS port is not used by ONTAP and is always disabled. See [Install a shelf in a new storage system](#) for more information.

[Animation - Drive shelf cabling](#)

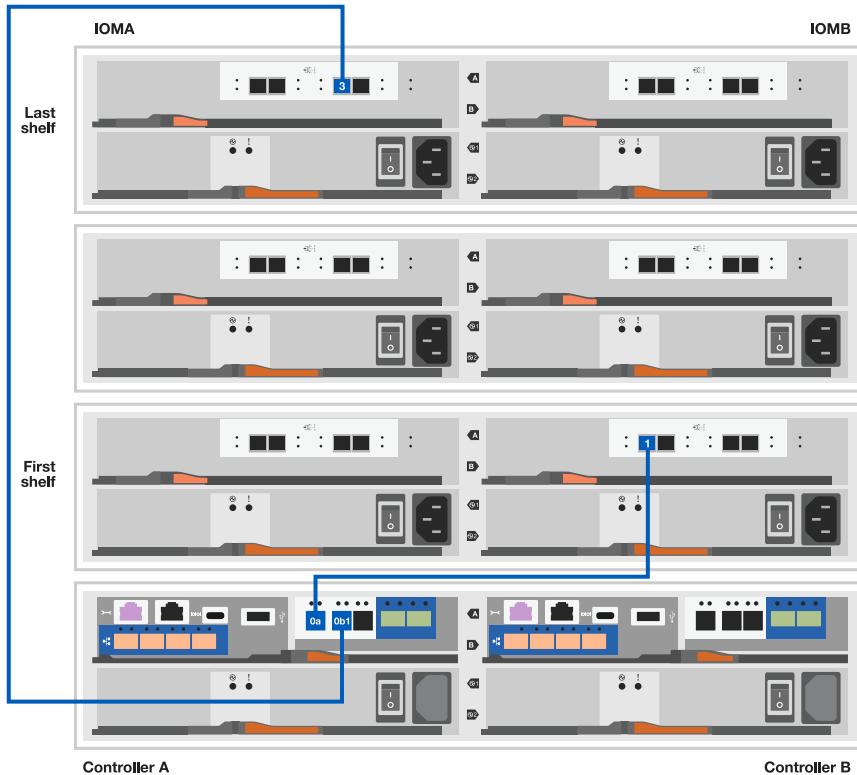
Steps

1. Cable the shelf-to-shelf ports.
 - a. Port 1 on IOM A to port 3 on the IOM A on the shelf directly below.
 - b. Port 1 on IOM B to port 3 on the IOM B on the shelf directly below.



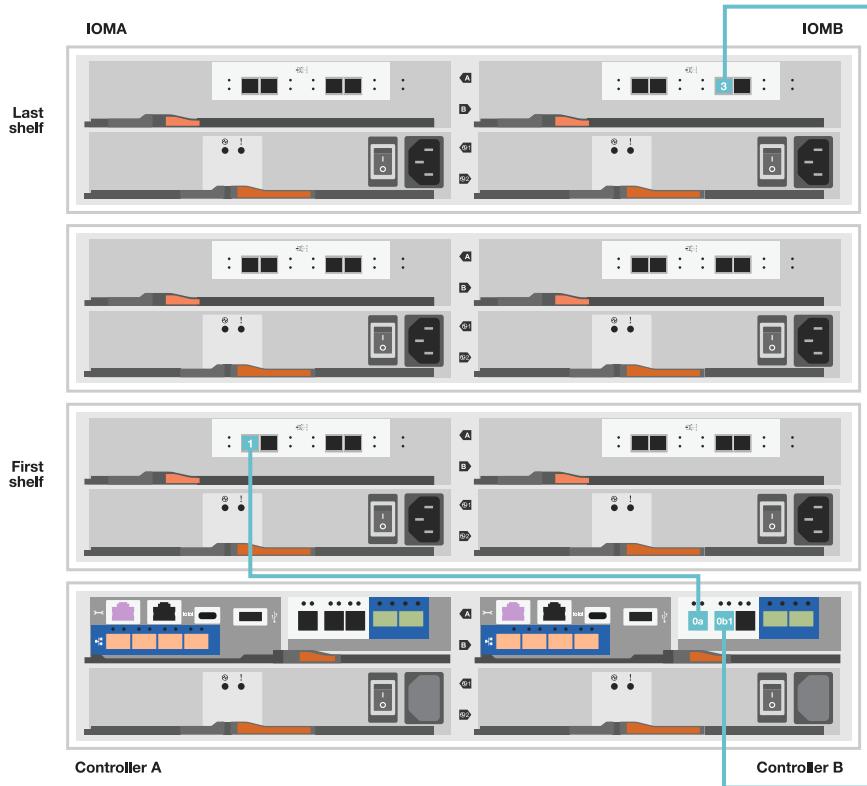
2. Cable controller A to the drive shelves.

- Controller A port 0a to IOM B port 1 on first drive shelf in the stack.
- Controller A port 0b1 to IOM A port 3 on the last drive shelf in the stack.



3. Connect controller B to the drive shelves.

- Controller B port 0a to IOM A port 1 on first drive shelf in the stack.
- Controller B port 0b1 to IOM B port 3 on the last drive shelf in the stack.



Step 5: Complete storage system setup and configuration

Complete your storage system setup and configuration using either Option 1: if network discovery enabled or Option 2: if network discovery is not enabled.

Use the following animation in either option where setting shelf ID is required:

[Animation - Set drive shelf IDs](#)

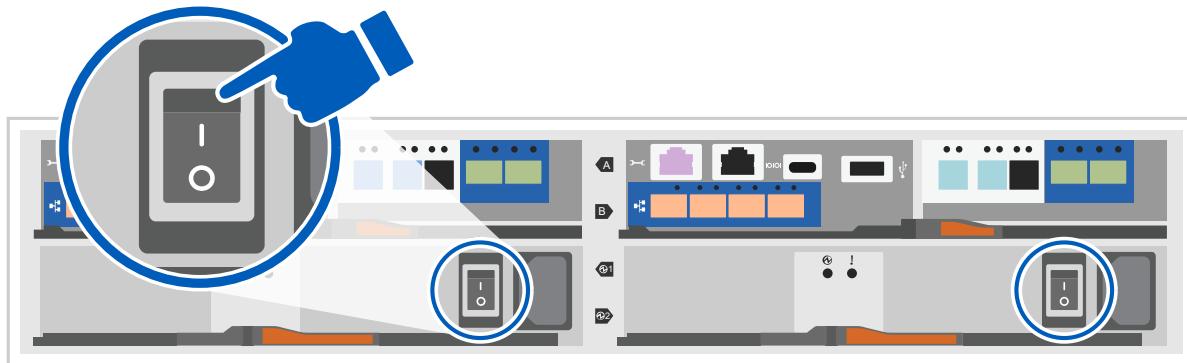
Option 1: If network discovery is enabled

If network discovery is enabled on your laptop, complete storage system setup and configuration using automatic cluster discovery.

Steps

1. Turn on shelf power and set shelf IDs using the animation at the beginning of this Step.
2. Power on the controllers
 - a. Plug the power cords into the controller power supplies, and then connect them to power sources on different circuits.
 - b. Turn on the power switches to both nodes.

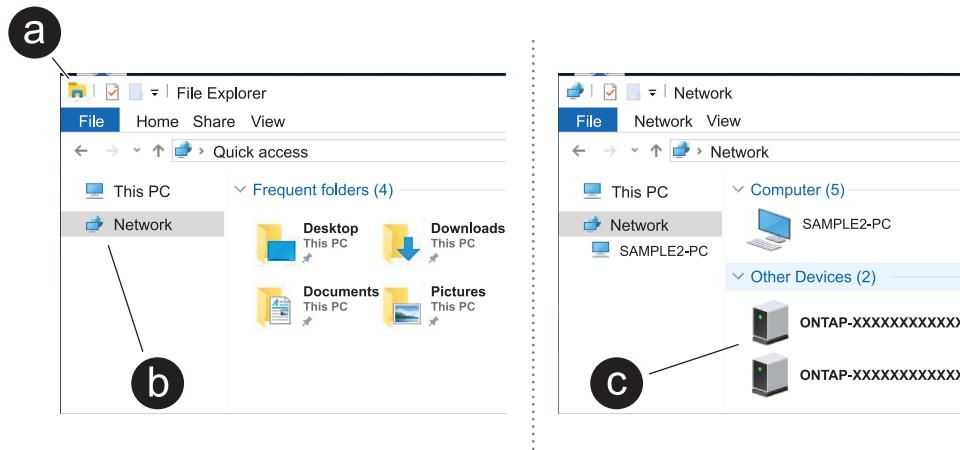
 Initial booting may take up to eight minutes.



3. Make sure that your laptop has network discovery enabled.

See your laptop's online help for more information.

4. Connect your laptop to the Management switch.
5. Use the graphic or steps to discover the storage system node to configure::



- a. Open File Explorer.
- b. Click **Network** in the left pane and right-click and select **refresh**.
- c. Double-click either ONTAP icon and accept any certificates displayed on your screen.



XXXXX is the storage system serial number for the target node.

System Manager opens.

6. Use System Manager guided setup to configure your storage system using the data you collected in [Step 1: Prepare for installation](#).
7. Create an account or log into your account.
 - a. Click [mysupport.netapp.com](#)
 - b. Click *Create Account* if you need to create an account or log into your account.
8. Download and install [Active IQ Config advisor](#)
 - a. Verify the health of your storage system by running Active IQ Config Advisor.
9. Register your system at <https://mysupport.netapp.com/site/systems/register>.
10. After you have completed the initial configuration, go to the [NetApp ONTAP Resources](#) page for information about configuring additional features in ONTAP.

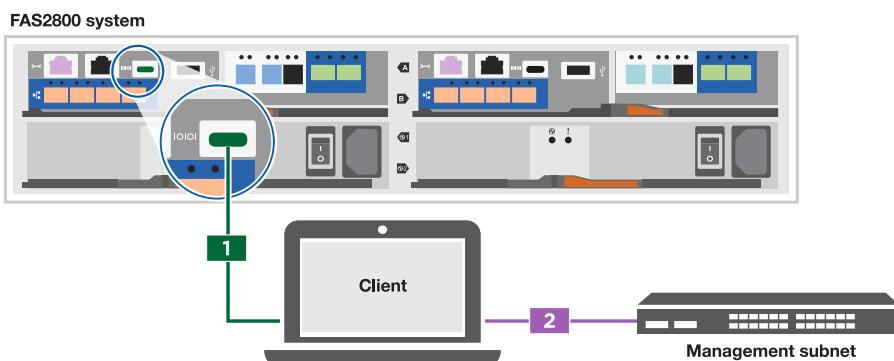
Option 2: If network discovery is not enabled

If network discovery is not enabled on your laptop, manually complete the configuration and setup.

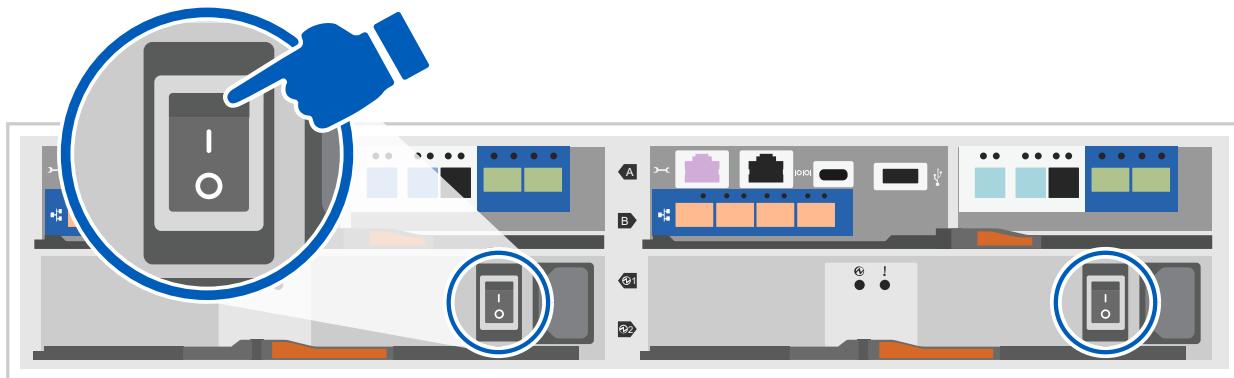
Steps

1. Cable and configure your laptop or console:
 - a. Set the console port on the laptop or console to 115,200 baud with N-8-1.

See your laptop or console's online help for how to configure the console port.
 - b. Connect the console cable to the laptop or console, and connect the console port on the controller using the console cable that came with your storage system, and then connect the laptop or console to the switch on the management subnet.



- c. Assign a TCP/IP address to the laptop or console, using one that is on the management subnet.
2. Turn on shelf power and set shelf IDs using the animation at the beginning of this Step.
3. Plug the power cords into the controller power supplies, and then connect them to power sources on different circuits.
4. Turn on the power switches to both nodes.



Initial booting may take up to eight minutes.

5. Assign an initial node management IP address to one of the nodes.

If the management network has DHCP...	Then...
Configured	Record the IP address assigned to the new controllers.
Not configured	<p>a. Open a console session using PuTTY, a terminal server, or the equivalent for your environment.</p> <p> Check your laptop or console's online help if you do not know how to configure PuTTY.</p> <p>b. Enter the management IP address when prompted by the script.</p>

6. Using System Manager on your laptop or console, configure your cluster:

- a. Point your browser to the node management IP address.



The format for the address is <https://x.x.x.x>.

- b. Configure the storage system using the data you collected in [Step 1: Prepare for installation..](#)

7. Create an account or log into your account.

- a. Click mysupport.netapp.com

- b. Click *Create Account* if you need to create an account or log into your account.

8. Download and install [Active IQ Config advisor](#)

- a. Verify the health of your storage system by running Active IQ Config Advisor.

9. Register your system at <https://mysupport.netapp.com/site/systems/register>.

10. After you have completed the initial configuration, go to the [NetApp ONTAP Resources](#) page for information about configuring additional features in ONTAP.

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