FAS2800 Systems
Installation and Setup Instructions

∎ NetApp®

Prepare and install | Stage 1

Pre-setup

1. Unpack all boxes and inventory contents.
   Attention: Customers with specific power requirements must check Hardware Universe for their configuration options.
2. Gather information about your storage system by completing the cluster setup worksheets:
   Get started with ONTAP cluster set up.
3. Review the requirements and procedure steps for Configure ONTAP on a new cluster with System Manager.

Note: For MetroCluster configurations, use the MetroCluster installation content.

Contents in the box

Cables shown are the most common. See Hardware Universe for more options.
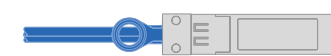
10 Gb Ethernet, SFP28
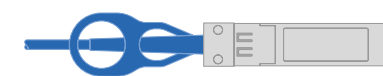Network cable
Part numbers X6566B-05-R6, .5m; X6566B-2-R6, 2m

10 GBASE-T, RJ45
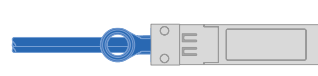Network cable
Part numbers X6561-R6; X6562-R6

32 Gb Fiber Channel, SFP+ (target/initiator)
Network cable
Part numbers X66250-2, 2m; X66250-5, 5m; X66250-15, 15m

25 Gb Ethernet, SFP28
Network cable
Part numbers X66240A-05, .5m; X66240-2, 2m; X66240A-5, 5m

MiniSAS HD cable
Storage connections
Part numbers X66030A, 0.5m; X66031A, 1m; X66032A, 2m

Additional cables

- **Ethernet cables**

- **Power cables**

Cable management tray

Slide rail kit

You provide

✓ **Rack space**
2U for platform
+2U for each DS224C or DS212 shelf

✓ **Screwdriver**
Phillips #2

✓ **Additional network cables**
For connecting your storage system to your network switch and laptop or console

✓ **Laptop or console**
With a USB/serial connection and access to a Web browser to configure your storage system

Install storage system in a rack or cabinet

Attention: Airflow through the platform and shelves enters from the front where the bezel or end caps are installed and exhausts out the rear where the ports are located.

1. Install rail kits for the platform and shelves, as needed, using the instructions included with the kits.
2. Install the platform chassis into the rack or cabinet.
3. Attach the cable management devices to the rear of the platform.
4. Install the bezel on the front of the platform.
5. Install any drive shelves into the rack or cabinet.
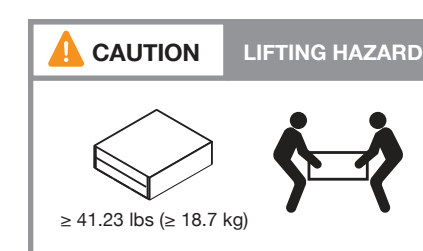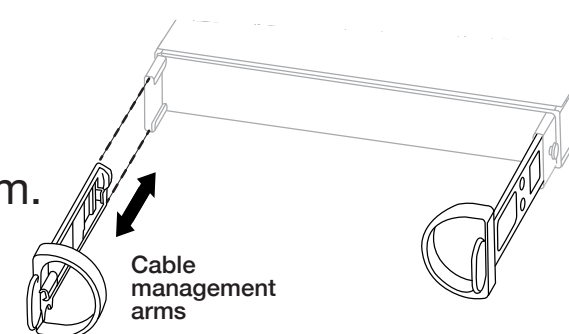
⚠ CAUTION   LIFTING HAZARD
≥ 41.23 lbs (≥ 18.7 kg)

Cable management arms

Attention: Be sure to check the illustration arrow for the proper cable connector pull-tab orientation.
Note: To unplug a cable, gently pull the tab to release the locking mechanism.
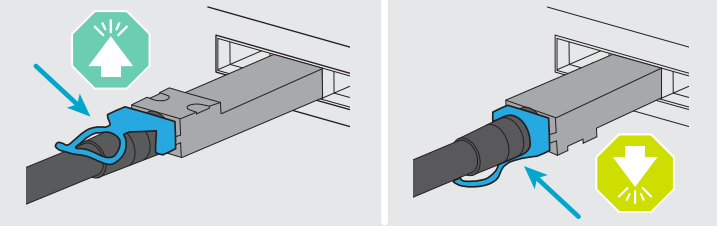
1   Cable the controllers for a switchless or switched cluster

See your network administrator for help connecting to your switches.

Cluster interconnect cables

1   Switchless cluster
Cable port e0a to port e0a and port e0b
to port e0b. (Part # X66240A-05, .5m)

Switched cluster
Cable port e0a and port e0b on each controller
to the cluster interconnect switches.
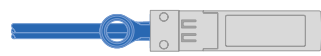
Ethernet cables

**2   Connect the wrench port (e0M/BMC) to the
management switches.**

**3   Cables used are dependent on what mezzanine
card is installed. See page 1 for cable part numbers
and descriptions and match them to the cables in
your shipment.**

4-ports, 10/25 Gb Ethernet, SFP28
4-ports, 32 Gb Fiber Channel, SFP+ (target only)
4-ports, 32 Gb Fiber Channel, SFP+ (initiator/target)
4-ports, 10 GBASE-T, RJ45

Cable ports e1a through e1d to your Ethernet data
network or ports e1a through e1d for your FC network.

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

Cable ports 1a and 1b to your FC data network and
ports e1c and e1d to your Ethernet data network.

**4   Strap the cables to the cable management arms
(not shown).**

Switchless cluster
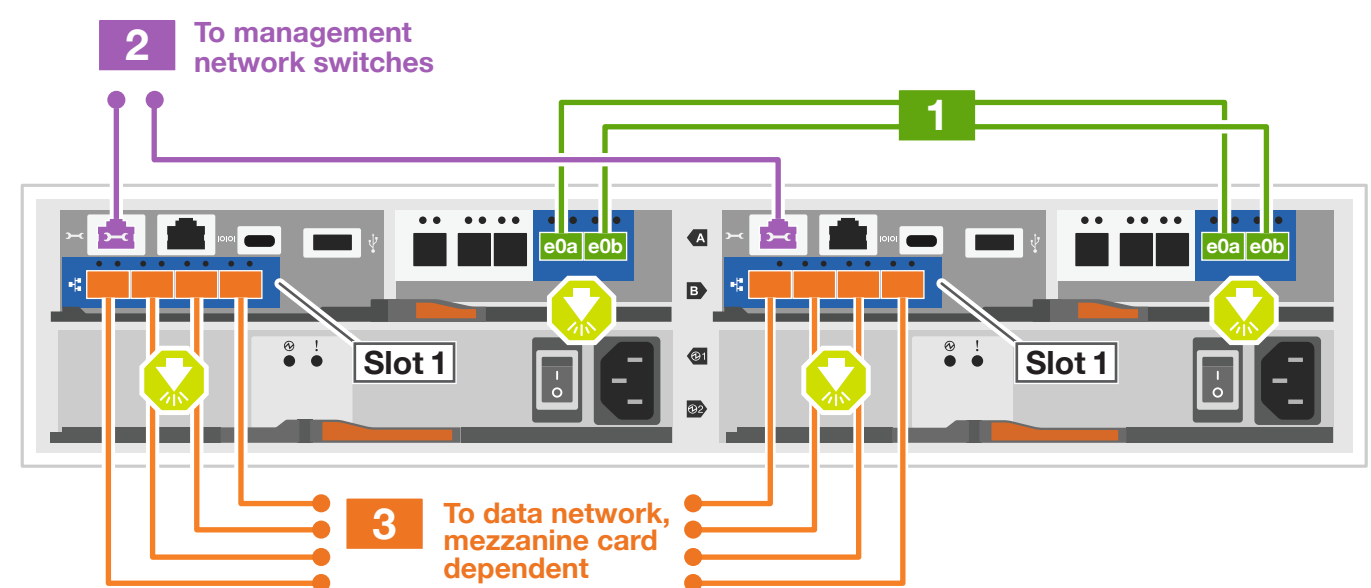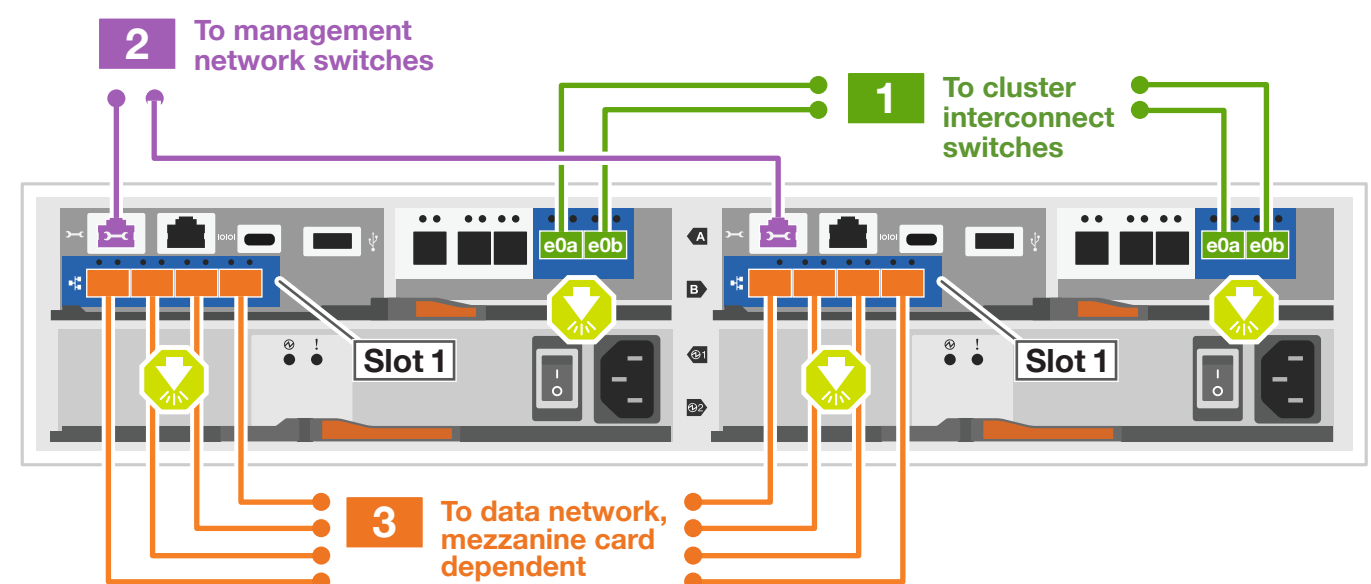
2 To management
network switches

1

Slot 1   Slot 1

3 To data network,
mezzanine card
dependent

Switched cluster

2 To management
network switches

1 To cluster
interconnect
switches

Slot 1   Slot 1

3 To data network,
mezzanine card
dependent

Attention: Be sure to check the illustration arrow for the proper cable connector pull-tab orientation.
Note: To unplug a cable, gently pull the tab to release the locking mechanism.
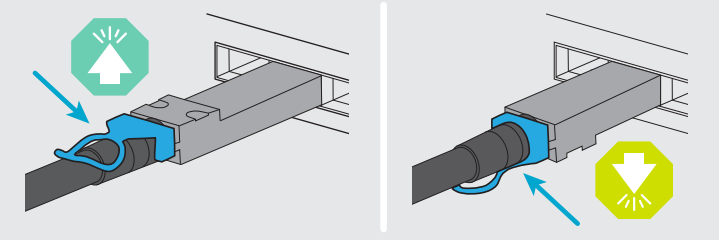
2 Cable storage

Cable to three DS224C or DS212 drive shelves

Note: See SAS cabling rules, worksheets, and examples overview - shelves with IOM12/IOM12B modules for cabling worksheets and additional cabling examples.
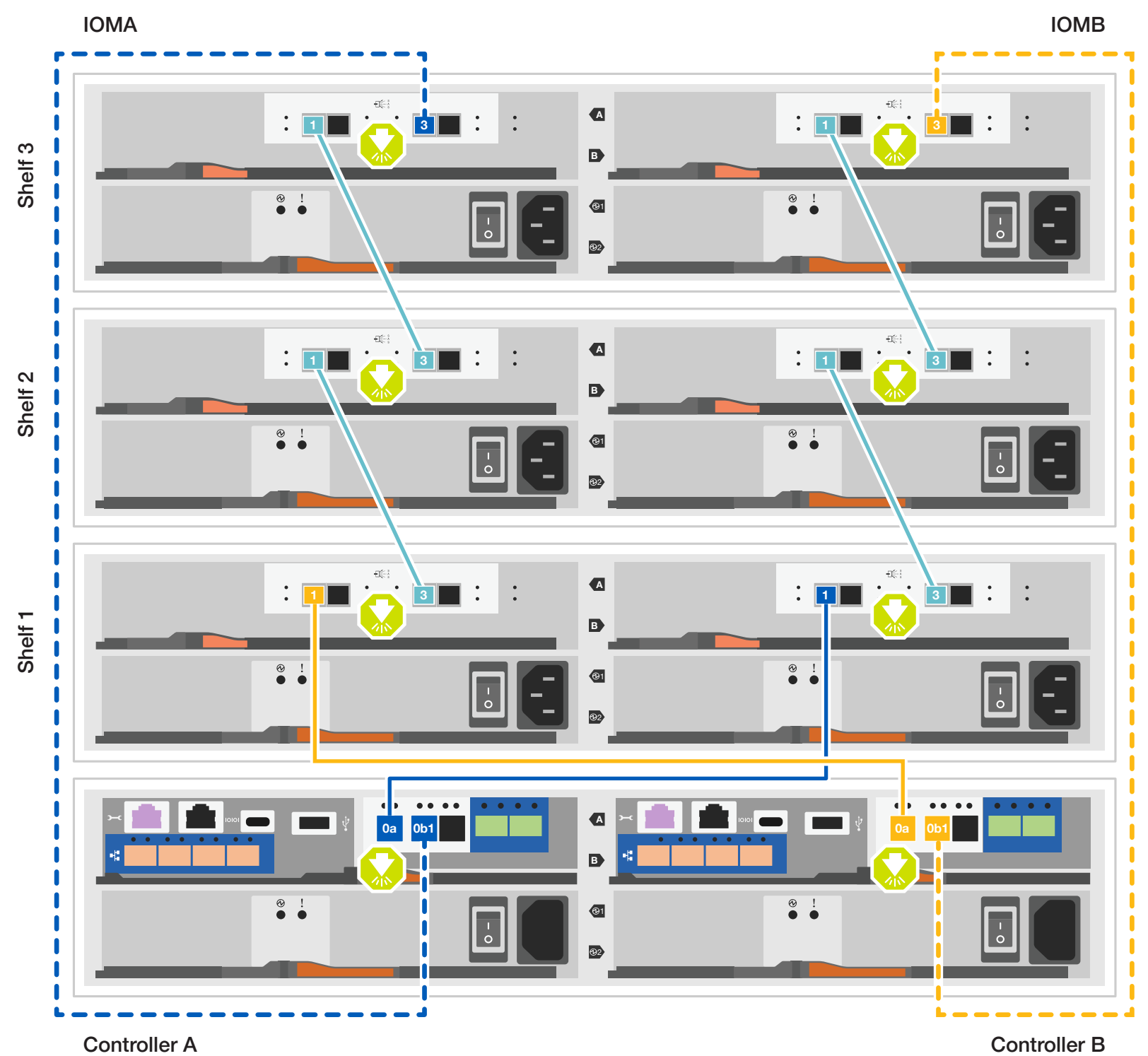
Storage cables

Use the tables below to connect your controllers to the three DS224C shelves.

Shelf to shelf

Shelf 1				Shelf 2				Shelf 3			
IOMA		IOMB		IOMA		IOMB		IOMA		IOMB	
1	3	1	3	1	3	1	3	1	3	1	3

Shelf to controllers

		Shelf 1				Shelf 2				Shelf 3			
		IOMA		IOMB		IOMA		IOMB		IOMA		IOMB	
		1	3	1	3	1	3	1	3	1	3	1	3
Controller	A	0a											
		0b1											
	B	0a											
		0b1											
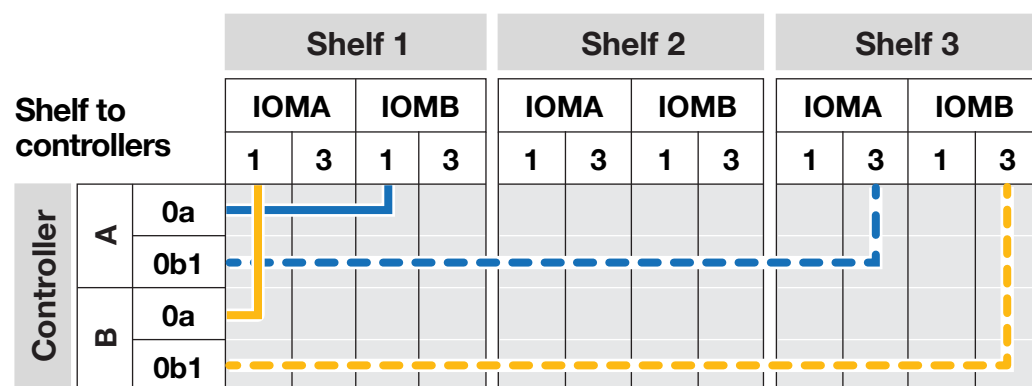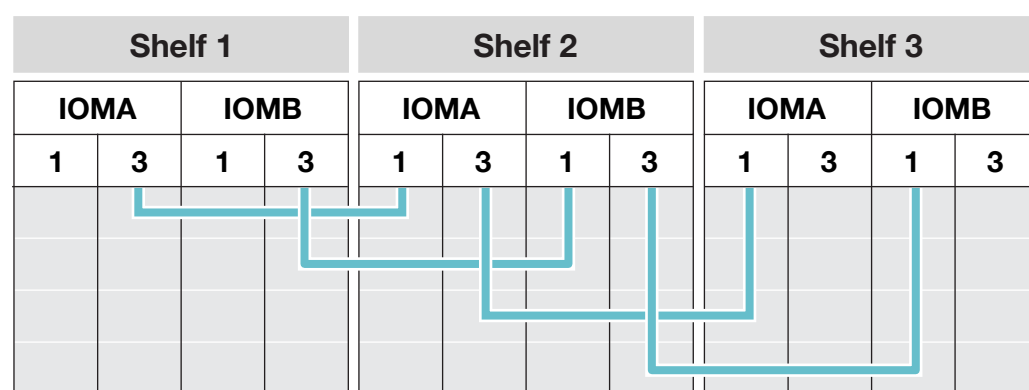
1 **Power on the shelves and set shelf IDs**

End cap

1. Plug the power cords into the shelf power supplies, and then connect them to power sources on different circuits.

2. If you need to change the shelf ID's, see Change a shelf ID - DS224 shelves for detailed instructions.

Shelf ID number

Faceplate

Shelf ID button
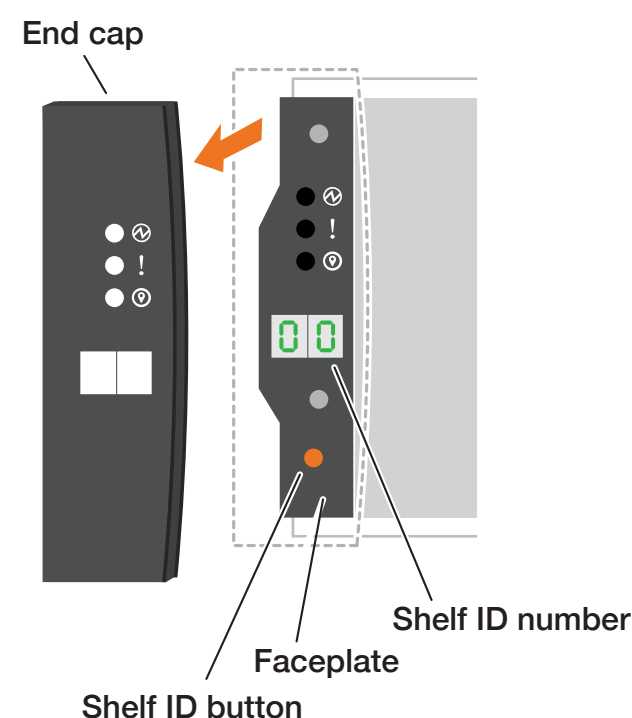
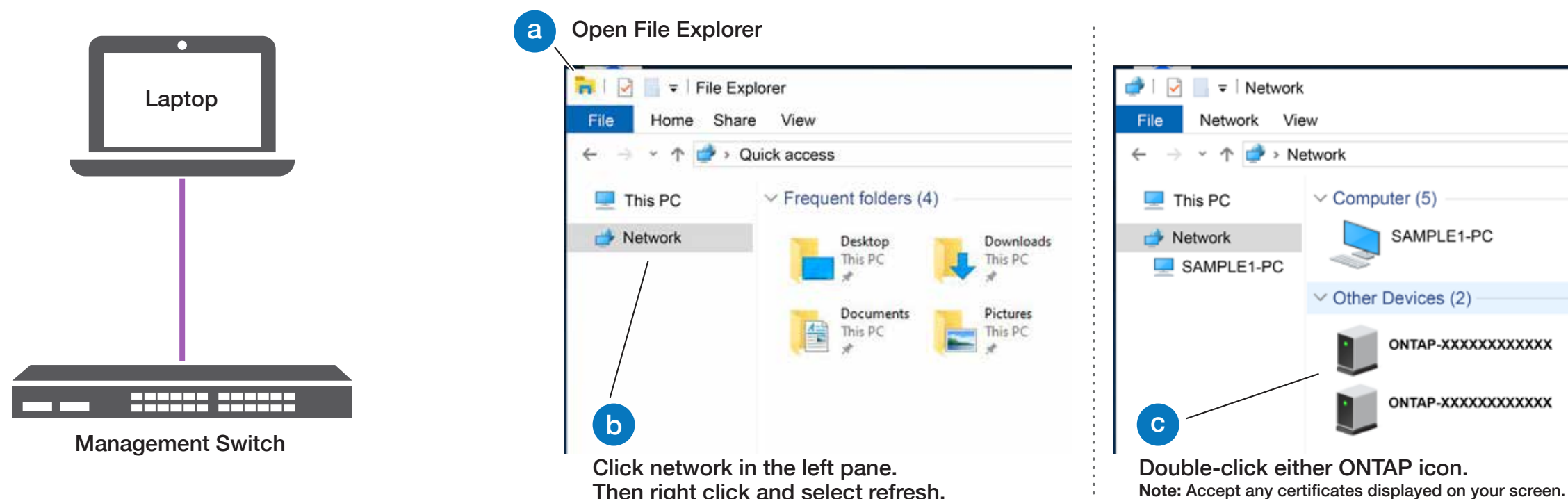**2** **Connect both power cords**

Power cables

1. Connect the power cables to each controller's power supply, and then to power sources on different circuits.

2. Secure the power cables using the securing device on each power supply.

3. Turn on the power switches to all nodes.

Controller A	Controller B
PSU 1	PSU 2
Power source on circuit A	Power source on circuit B

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3 **Complete the initial cluster setup with network discovery**

Note: If your laptop does not support network discovery, see the Detailed steps.

Connect your laptop to the management switch and access the network computers and devices.

Laptop

Management Switch

a Open File Explorer

File Explorer
File Home Share View
← → ↑ > Quick access
This PC   ∨ Frequent folders (4)
Network   Desktop   Downloads
             This PC   This PC
             Documents   Pictures
             This PC   This PC

b Click network in the left pane. Then right click and select refresh.

Network
File Network View
← → ↑ > Network
This PC   ∨ Computer (5)
Network   SAMPLE1-PC
SAMPLE1-PC   ∨ Other Devices (2)
               ONTAP-XXXXXXXXXXXX
               ONTAP-XXXXXXXXXXXX

c Double-click either ONTAP icon. **Note:** Accept any certificates displayed on your screen.

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4 **Configure your cluster using the Configure ONTAP on a new cluster with System Manager procedure**

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5 **Complete the setup**

1. Click...
   a) mysupport.netapp.com   b) Create/log in to your account   c) Register your system

2. Download and install Active IQ Config Advisor, and then run it to verify the health of your storage system.

3. After you have completed the initial configuration, go to the NetApp ONTAP Resources page for information about configuring additional features in ONTAP.