

FAS9500 Systems Installation and Setup Instructions



Prepare and install | Stage 1



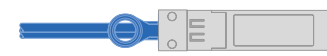
Pre-setup

- Unpack all boxes and inventory contents.
Attention: Customers with specific power requirements must check [Hardware Universe](#) for their configuration options.
 - Gather information about your storage system by completing the cluster setup worksheets:
[Get started with ONTAP cluster set up.](#)
 - 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.](#)



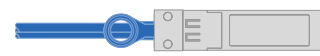
Contents in the box

Cables shown are the most common. See [Hardware Universe](#) for more options.



25 GbE data cable Network cable

Part numbers X66240A-05, 0.5m;
X66240A-2, 2m; X66240A-5, 5m



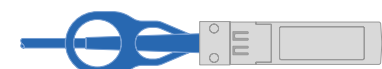
32 Gb FC (SFP+ Op) FC optical network cable

Part numbers X66250-2, 2m;
X66250-5, 5m; X66250-15, 15m



100 GbE network cable NVMe storage, Ethernet data, cluster network

Part numbers X66211A-05, 0.5m;
X66211B-1, 1m; X66211B-2, 2m;
X66211B-5, 5m



40 GbE network cable Ethernet data, cluster network

Part numbers X66100-1, 1m;
X66100-3, 3m; X66100-5, 5m



Mini-SAS HD cable Storage connections

Part numbers X-26004-00, 1m;
X-26005-00, 2m; X66033A, 3m



Optical network cable Ethernet, FC optical connections

Part numbers X6553-R6, 2m; X6554-R6, 15m

Additional cables

■ Ethernet cables



■ Power cables



Cable management arms

Slide rail kit



You provide



Rack space

8U for platform +2U
for each DS224C shelf



Screwdriver

Phillips #2



Additional network cables

For connecting your storage system
to your network switch and laptop
or console



Laptop or console

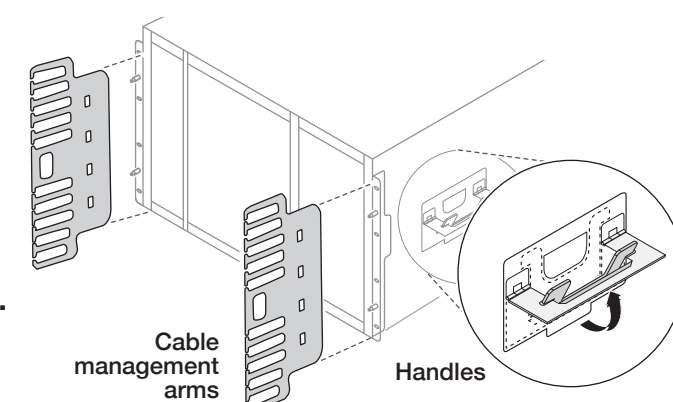
With a USB/serial connection
and access to a Web browser to
configure your storage system



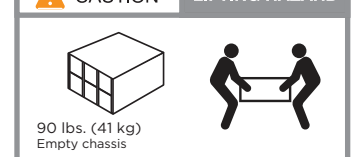
Install storage system in a rack or cabinet

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.

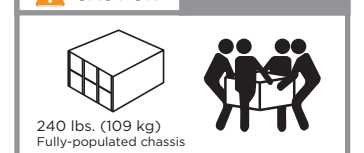
- Install the rail kits for the platform and shelves, as needed, using the instructions included with the kits.
- Install the platform chassis into the rack or cabinet.
Note: Install the empty chassis and then install the components into the chassis.
- Attach the cable management devices to the rear of the platform.
- Install the bezel on the front of the platform.
- Install any drive shelves into the rack or cabinet.



CAUTION LIFTING HAZARD

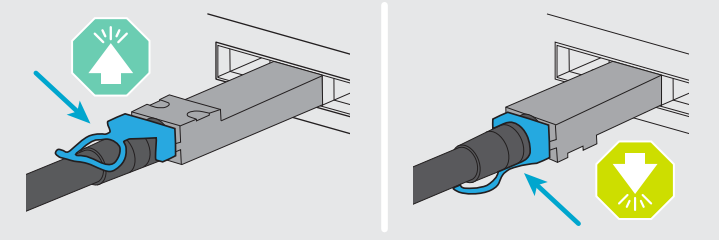


CAUTION LIFTING HAZARD



Cable controllers | Stage 2

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.



1 Switchless cluster

Cable cluster interconnect **a** ports together in slot A4 and B4 (e4a) and again in slot A8 and B8 (e8a).

Switched cluster

Cable cluster interconnect **a** ports in slot A4 and B4 (e4a) and again in slot A8 and B8 (e8a) to the cluster network switch.



2 Cable the wrench ports to the management switches.



3 Cable ports in slot A3 and B3 (e3a and e3c) and slot A9 and B9 (e9a and e9c) to the 25 GbE network switches.



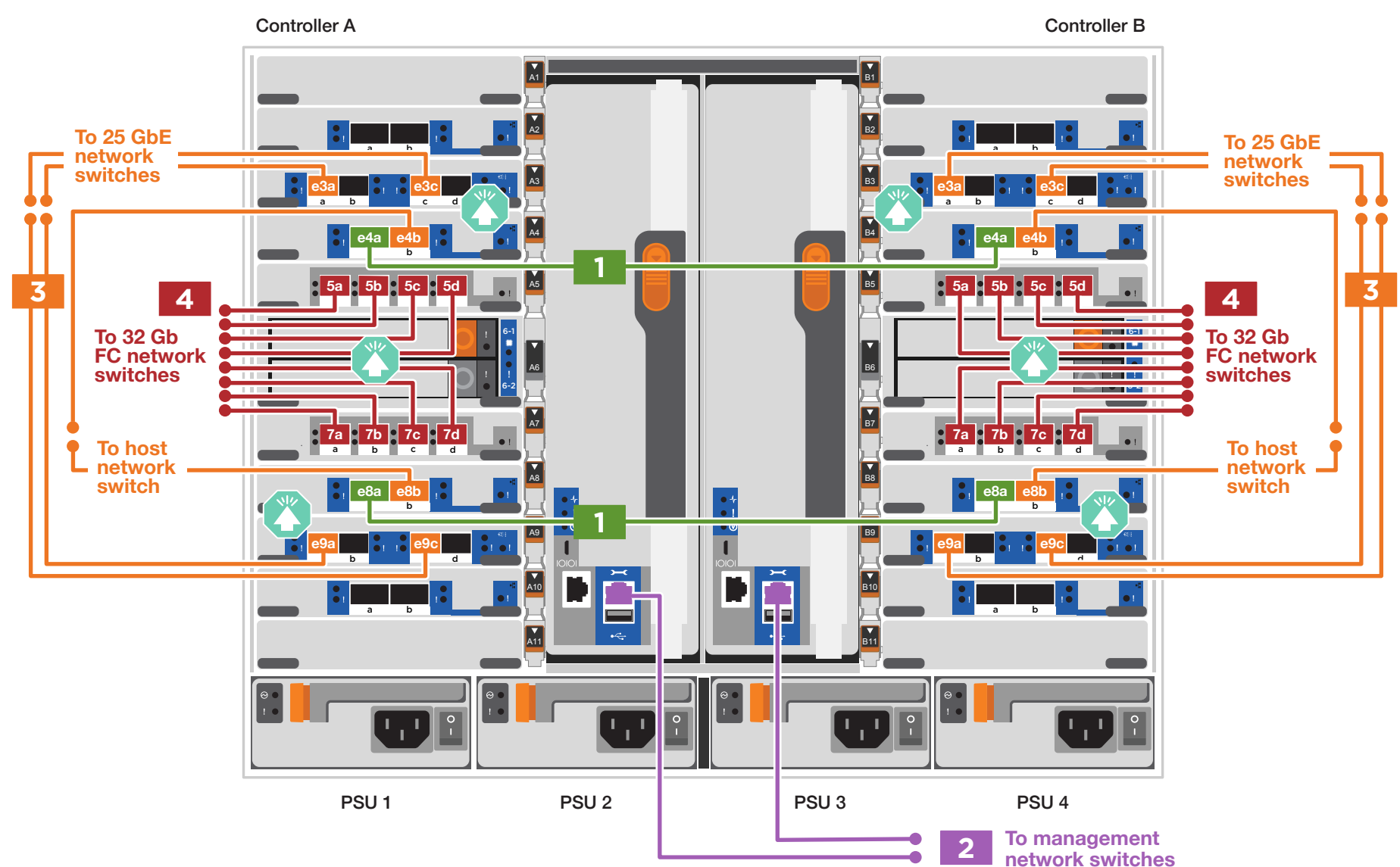
Cable host-side **b** ports in slot A4 and B4 (e4b) and slot A8 and B8 (e8b) to the host switch.



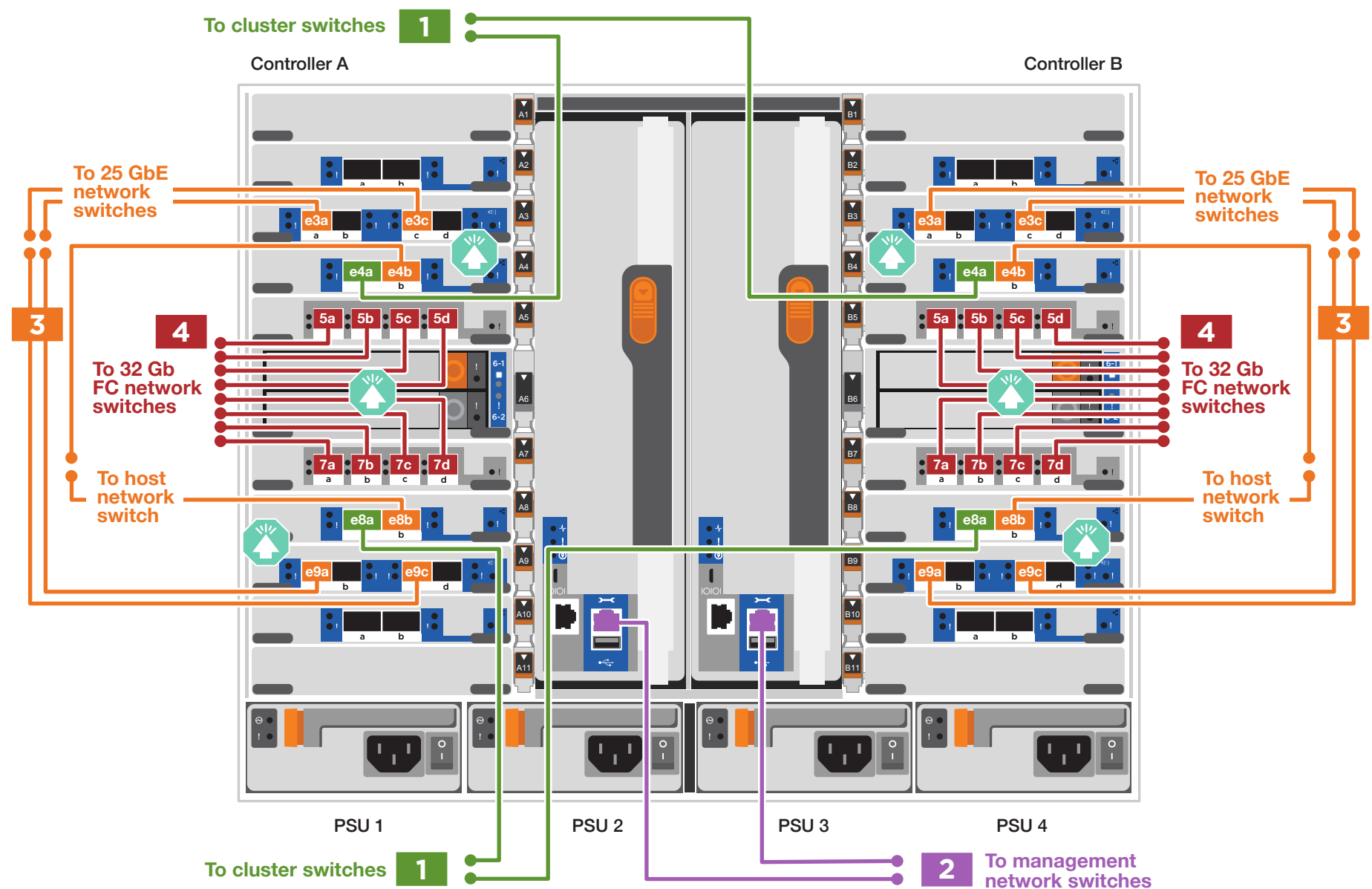
4 Cable ports in slot A5 and B5 (5a, 5b, 5c, and 5d) and slot A7 and B7 (7a, 7b, 7c, and 7d) to the 32 Gb FC network switches.

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

Switchless cluster

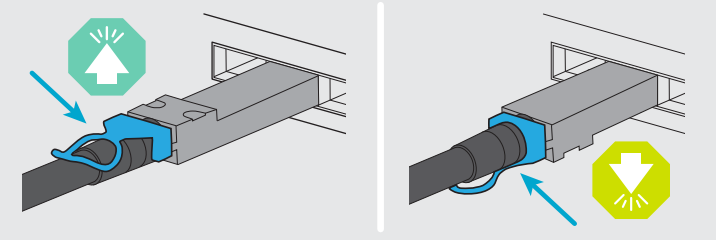


Switched cluster



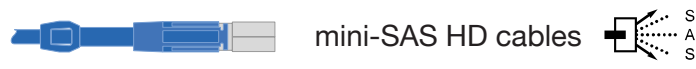
Cable controllers | Stage 2

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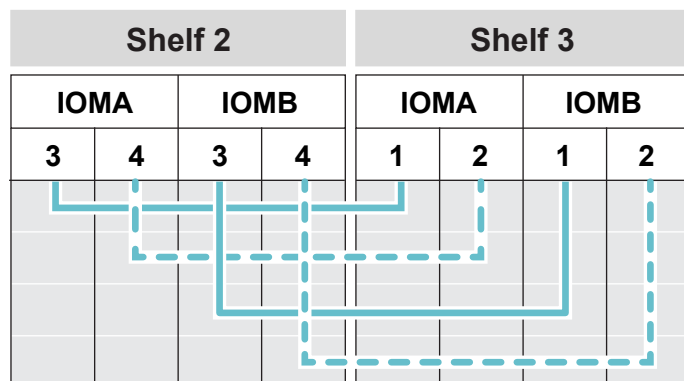
3 Cable storage

Cable to three DS224C shelves

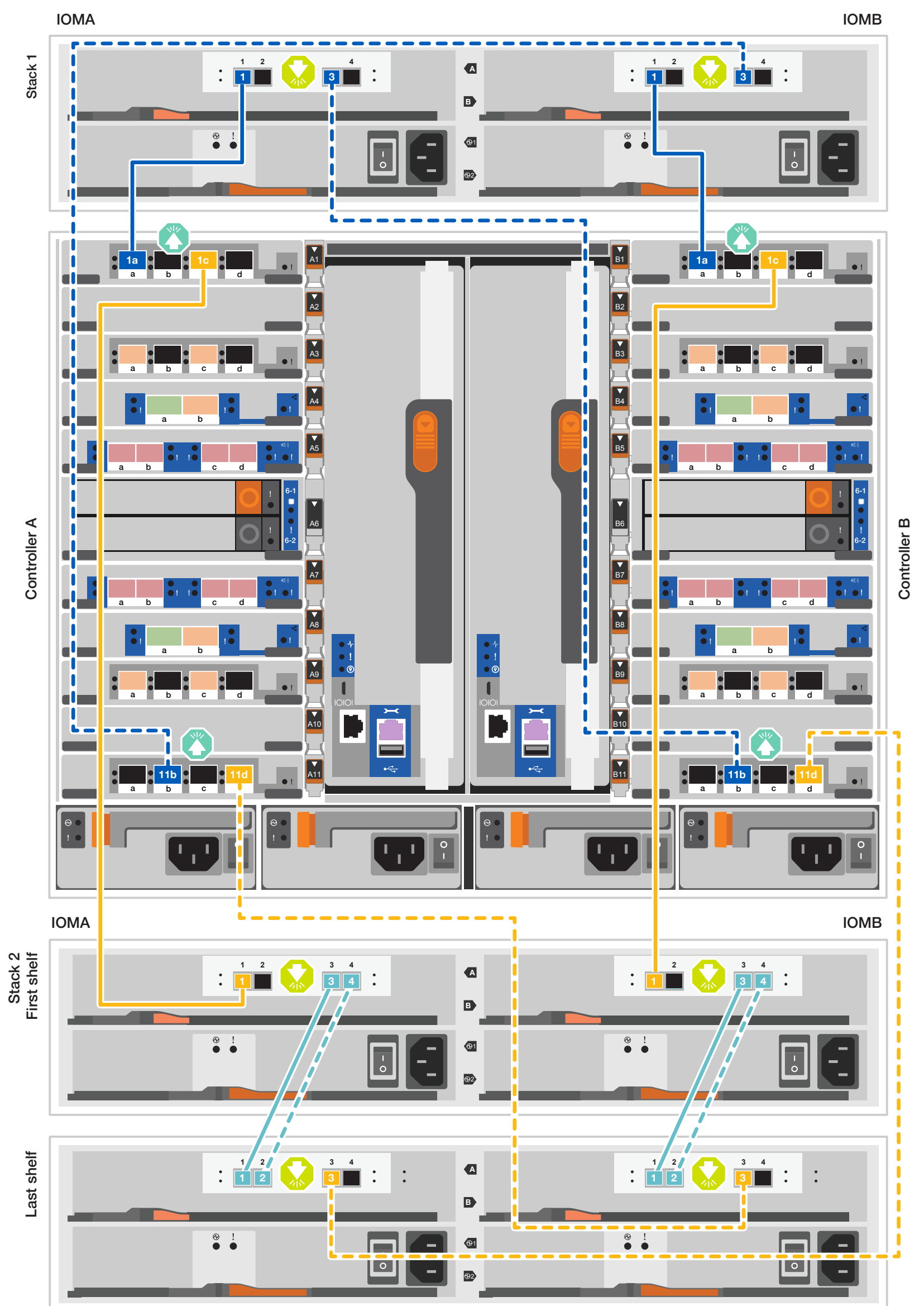
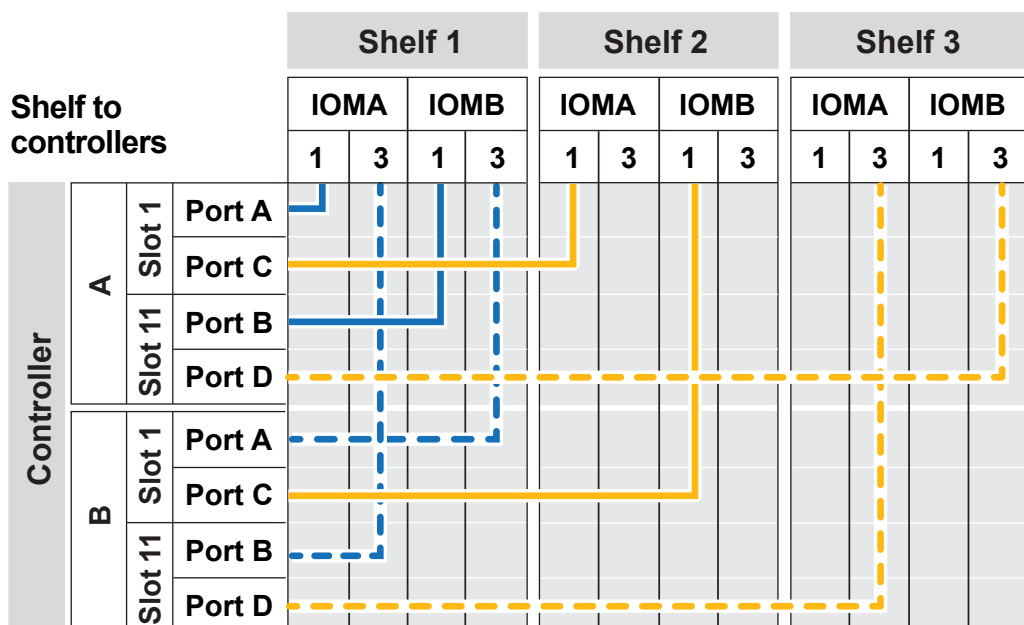


Use the tables below to connect your controllers to three DS224C shelves.

Shelf to shelf



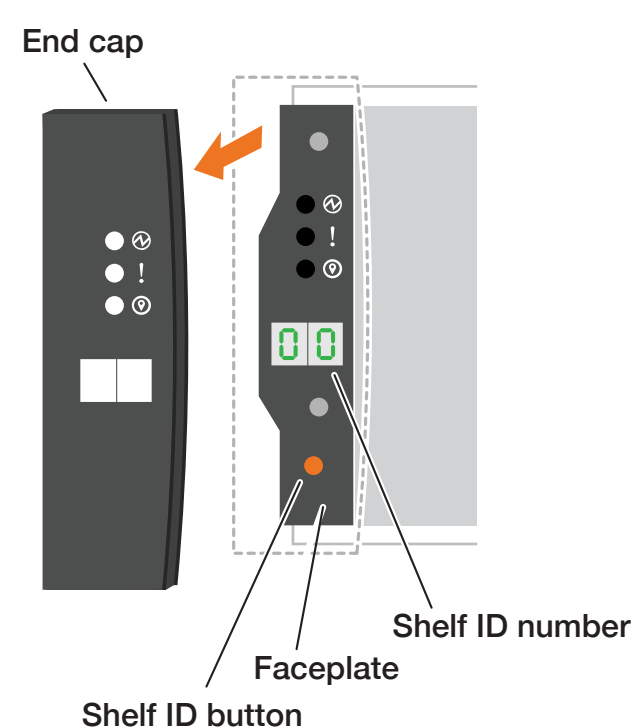
Shelf to controllers



Storage system bring-up | Stage 3

1 Power on the shelves and set shelf IDs

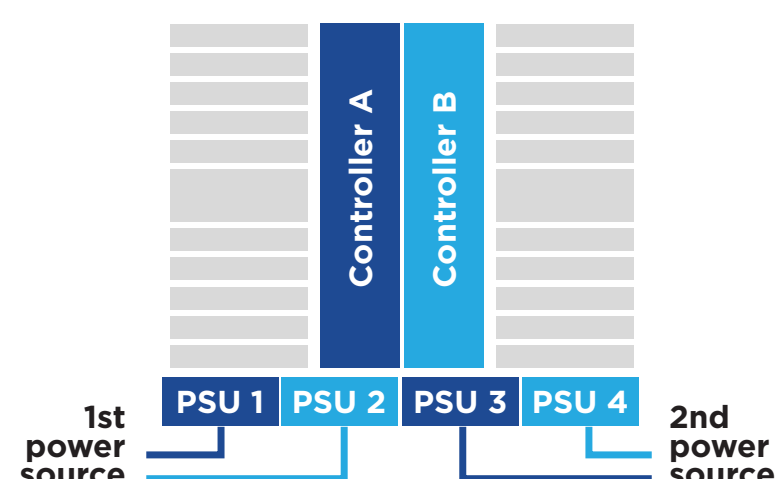
1. Plug the power cords into the shelf power supplies, and then connect them to power sources on different circuits.
2. If you need to change the shelf ID's, see [Change a shelf ID - DS224 shelves](#) for detailed instructions.



2 Connect the power cords



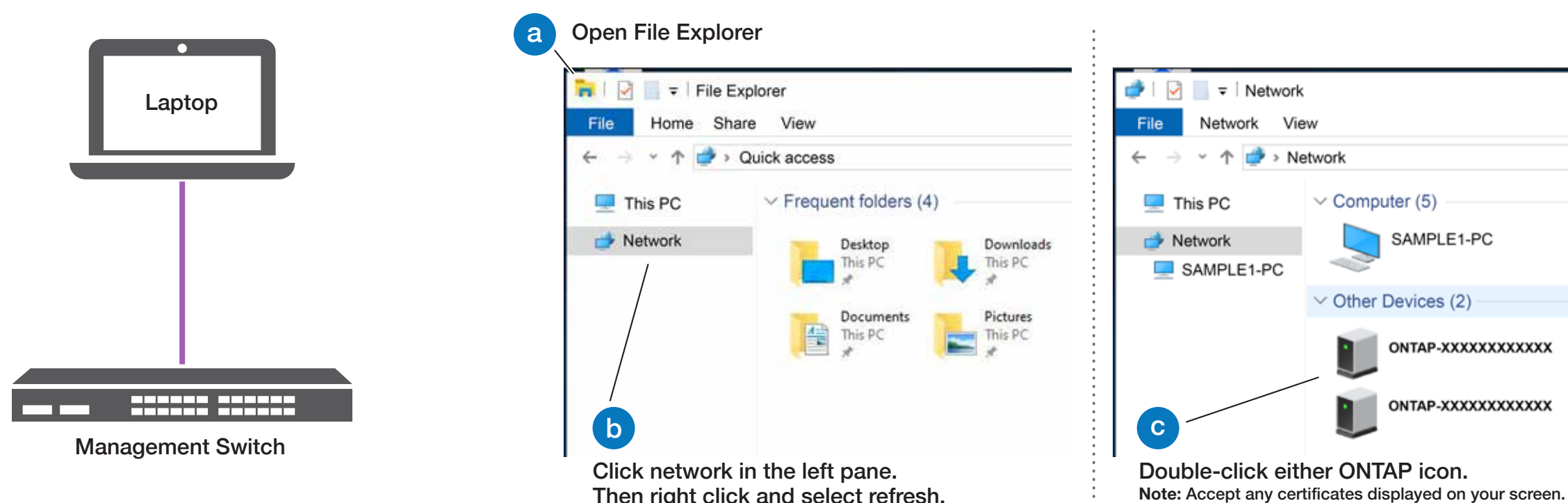
1. Connect the power cables to each controller's power supply, and then to power sources on different circuits. PSU 1 and PSU 3 provide power to all side A FRUs, PSU 2 and PSU 4 provide power to all side B FRUs.
2. Secure the power cables using the securing device on each power supply.
3. Turn on the power switches to all nodes.



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.



4 Configure your cluster using the [Configure ONTAP on a new cluster with System Manager](#) procedure

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.