NetApp®

FAS8300 and FAS8700 Systems
Installation and Setup Instructions

Prepare for installation | Stage 1

Pre-setup
○●●

1. Unpack all boxes and inventory contents. For more cable information and part numbers, see the Hardware Universe.
2. If you are not already in the AFF and FAS System Documentation Center, go to AFF and FAS System Documentation Center; click FAS8300 and FAS8700 systems; click Installation and Setup:
   - Review the NetApp ONTAP Configuration Guide.
   - Watch the videos listed under Setup videos.
   .

Contents
In the box

Cables in your shipment are order-dependent. Not all cables shown may be in your shipment.

100 GbE cable (QSFP28)
Storage, cluster network, and Ethernet data (order-dependent)

Part numbers:
X66211A-05 (112-00595), 0.5m
X66211A-1 (112-00573), 1m
X66211A-2 (112-00574), 2m
X66211A-5 (112-00576), 5m

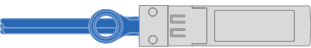### 25 GbE cable (SFP28s)
HA interconnect, GbE network cable.

Part numbers:
X66240-2 (112-00598), 2m
X66240-5 (112-00639), 5m

RJ-45 cables
Wrench port (e0M/BMC) (order-dependent)

Part numbers:
X5585-R6 (112-00291), 3m
X6562-R6 (112-00196), 5m

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

Part numbers:
X66250-2 (112-00342), 2m
X66250-5 (112-00344), 5m
X66250-15 (112-00346), 15m

Storage Cables
mini-SAS HD to mini-SAS HD cables

Part numbers:
X66030A (112-00435), .5m
X66031A (112-00436), 1m
X66032A (112-00437), 2m
X66033A (112-00438), 3m

16 Gb FC or 25GbE cables
Mezzanine cards (SFPs pre-installed):

Part number:
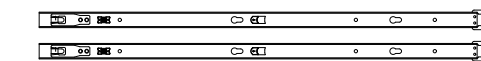X66250-2-N-C (112-00342)

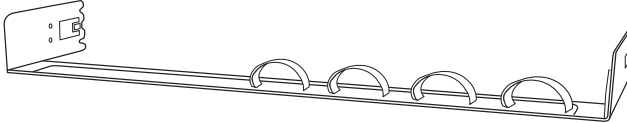### Additional cables

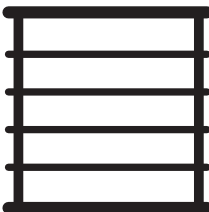Ethernet cables   Power cables

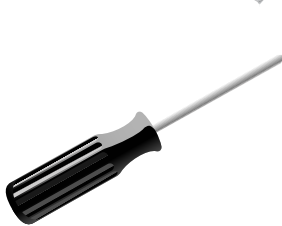micro USB console cable

Slide rail kit
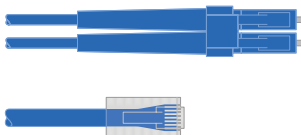
Cable management tray

You provide

Rack space
4U for FAS8300 and FAS8700
+2U for each 2U shelf
or +4U for each 4U shelf

Screwdriver
Phillips #2

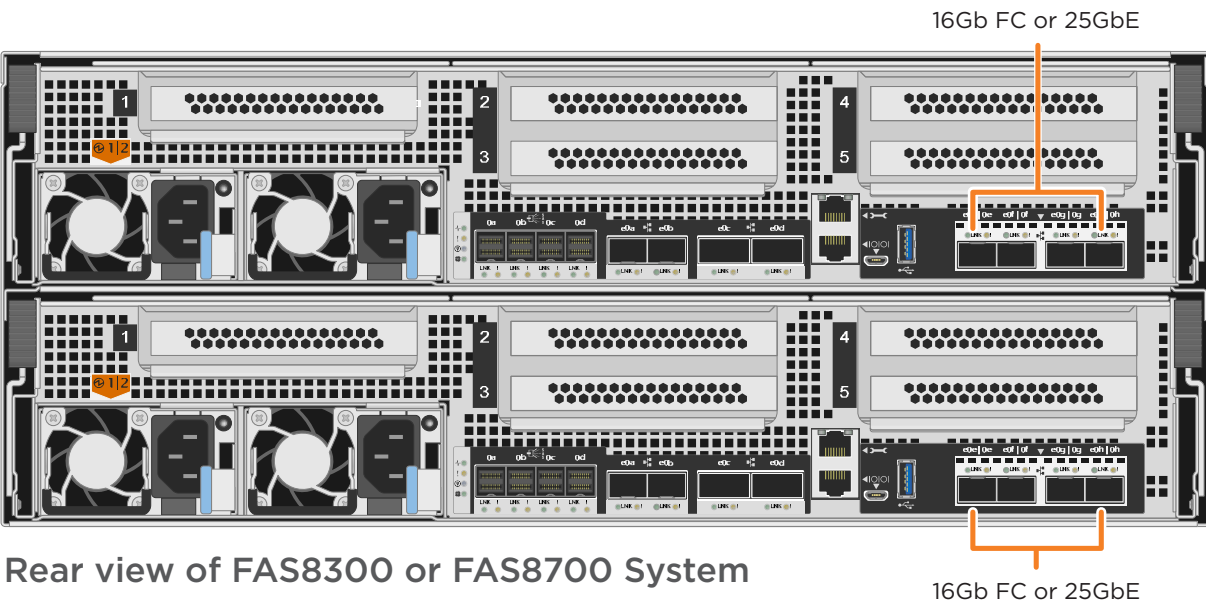### Additional network cables
For connecting your storage system to your network switch and laptop or console.

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

16Gb FC or 25GbE

Rear view of FAS8300 or FAS8700 System

16Gb FC or 25GbE

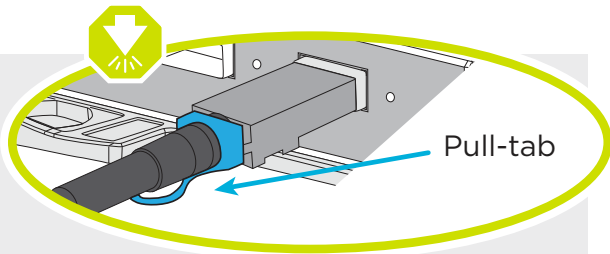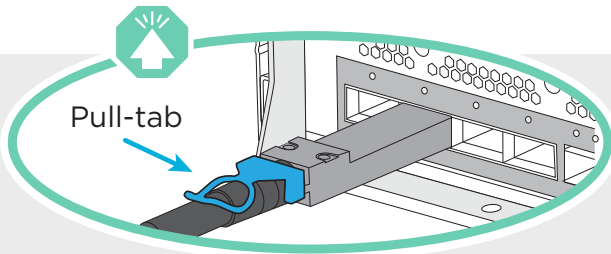## ① Install system in a rack or cabinet

- Install the slide rail or telco tray kits, as needed, and then install and secure your system using the instructions included with the kit.
- Attach cable management devices to the back of each controller (as shown).
- Place the bezel on the front of the system.
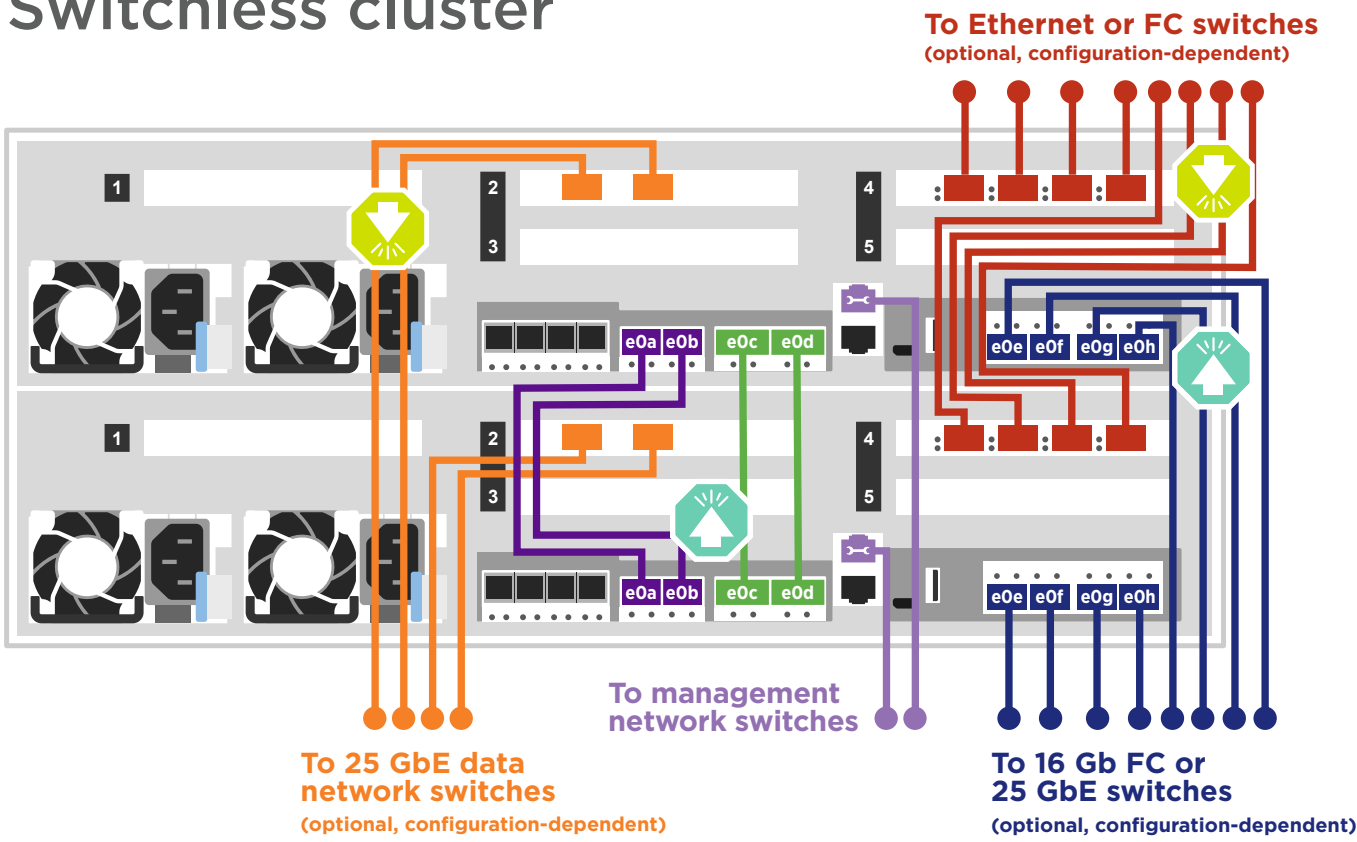- Install any drive shelves for your system.

⚠ CAUTION LIFTING HAZARD

≥ 50.1 kg (≥ 110.2 lbs.)
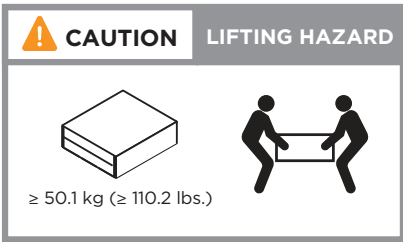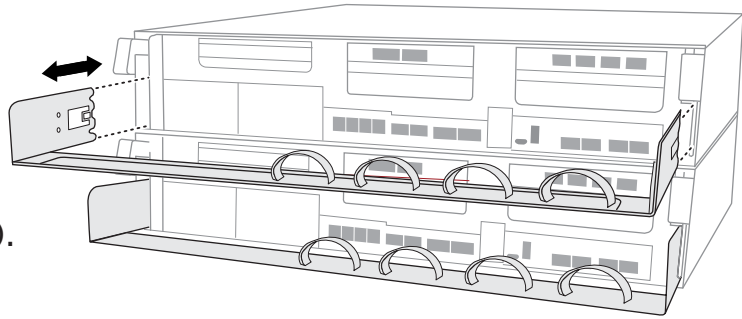
② Cable the controller for a switchless or switched cluster

See your network administrator for help connecting to your switches.

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.

Pull-tab

Pull-tab

Switchless cluster

To Ethernet or FC switches
(optional, configuration-dependent)

e0a e0b   e0c e0d   e0e e0f e0g e0h

e0a e0b   e0c e0d   e0e e0f e0g e0h

To management network switches

To 25 GbE data network switches
(optional, configuration-dependent)

To 16 Gb FC or 25 GbE switches
(optional, configuration-dependent)

Switched cluster

To cluster switches

To Ethernet or FC switches
(optional, configuration-dependent)

e0a e0b   e0c e0d   e0e e0f e0g e0h

e0a e0b   e0c e0d   e0e e0f e0g e0h

To management network switches

To 25 GbE data network switches
(optional, configuration-dependent)

To 16 Gb FC or 25 GbE switches
(optional, configuration-dependent)

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100 GbE cables (cluster network)

🟢 **Switchless cluster:** Connect ports e0c to e0c and ports e0d to e0d.

Switched cluster: Controller 1: Connect port e0c to switch 1 and port e0d to switch 2. Controller 2: Connect port e0c to switch 1 and port e0d to switch 2.

25 GbE cables

🟣 Connect ports e0a to e0a and ports e0b to e0b (HA interconnect only).

25 GbE cables

🟠 Connect ports to the 25 GbE data network switches (optional, configuration dependent).

FC cables

🔴 Connect ports to the FC data network switches (optional, configuration dependent).

Ethernet cables 🔧

🟣 Connect the Wrench port (e0M/BMC) to the management switches

Optical cables

🔵 Connect the mezzanine cards (e0e through e0h) to either 16 Gb FC or 25 GbE switches; configuration dependent.

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

DO NOT plug the power cables into a power source yet.
The system will boot as soon as the power cables are plugged into the power source and power supplies.
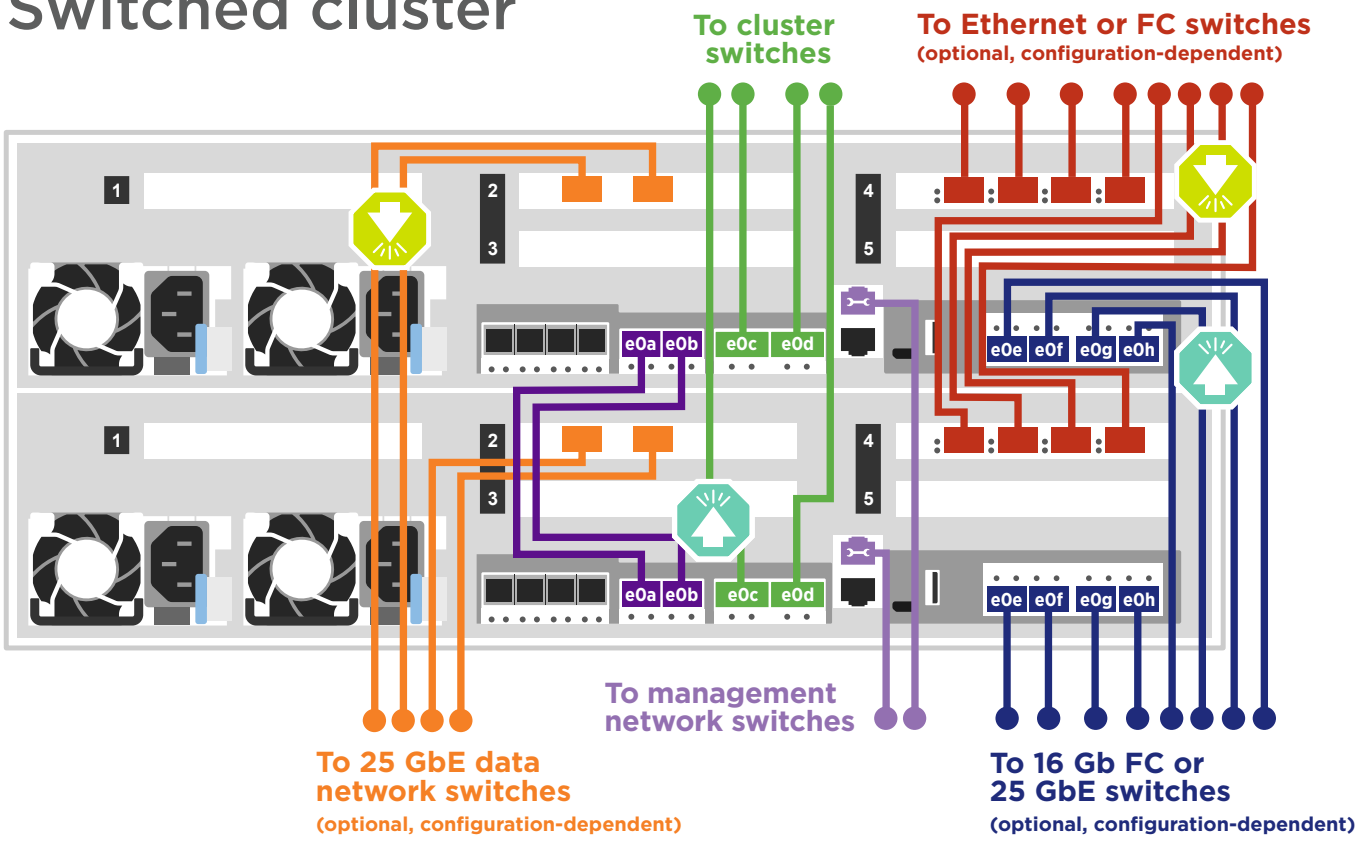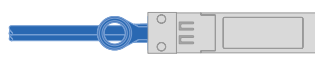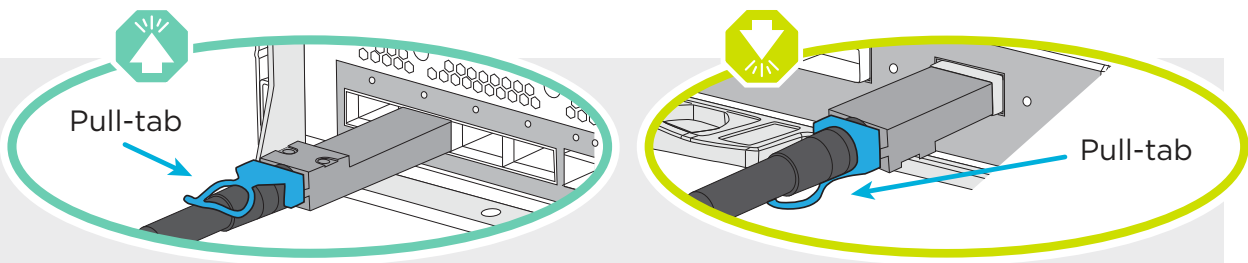
Attention: Be sure to check the illustration arrow for the proper cable connector pull-tab orientation.

Note: To unplug a cable, gently pull the tab to release the locking mechanism.

Pull-tab

Pull-tab

Cabling a FAS8300 or FAS8700 system to three DS224C shelves

mini-SAS HD

- 🟠 Connect the shelf-to-shelf ports
- 🔵 Connect Controller A to the drive shelves
- 🔵 Connect Controller B to the drive shelves

IOMA IOMB

Shelf 3

Shelf 2

Shelf 1

Controller A

Controller B
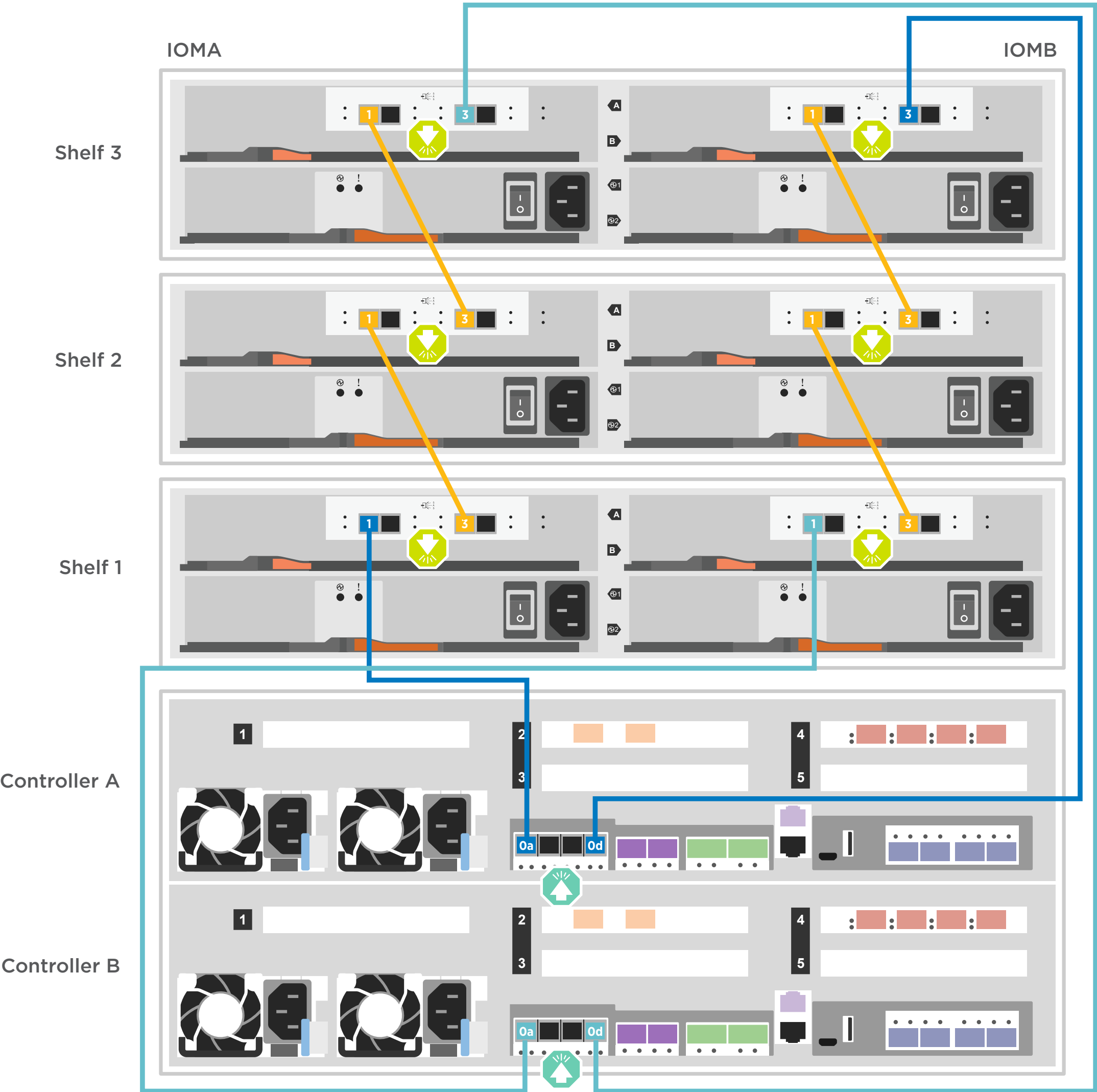
1 # Power on the shelves and set shelf IDs:

1. Plug the power cords into the shelf power supplies, connect them to power sources on different circuits, and then turn on the power switch to boot the shelves.
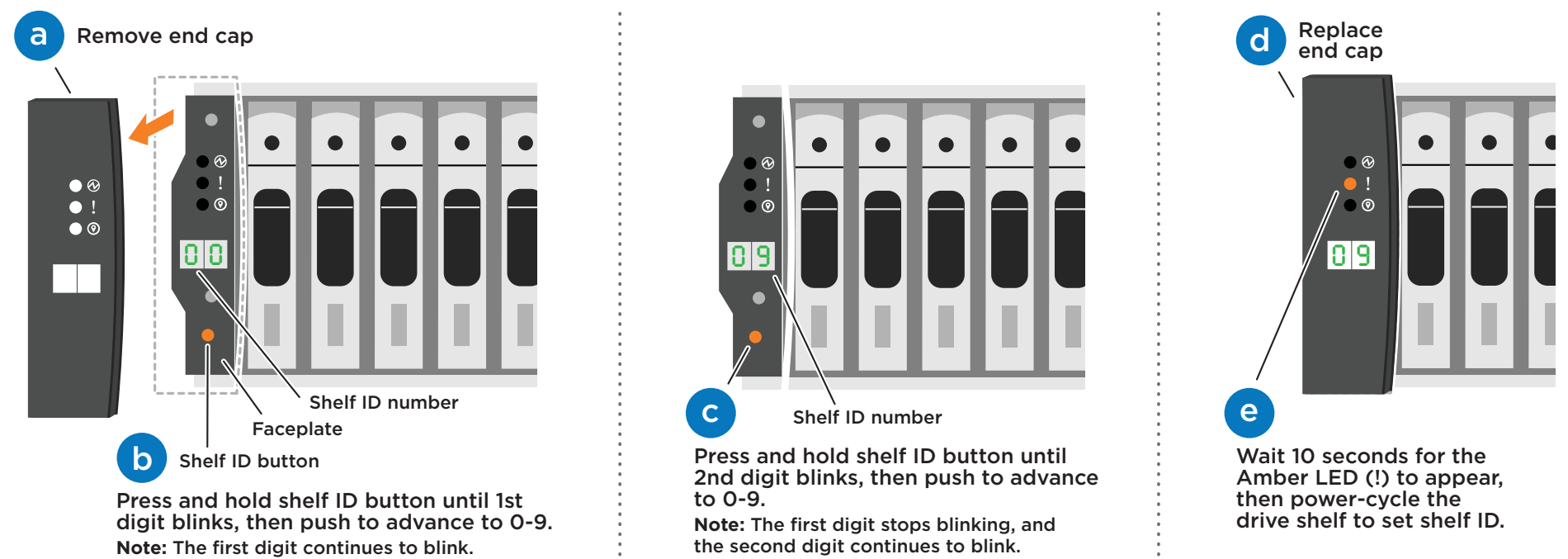
2. If you need to change the shelf IDs, continue with substeps a through e; otherwise, skip to "Power on the controllers" below.

   Repeat these steps for any remaining drive shelves.

a Remove end cap

Shelf ID number
Faceplate

b Shelf ID button

Press and hold shelf ID button until 1st digit blinks, then push to advance to 0-9.
Note: The first digit continues to blink.

c Shelf ID number

Press and hold shelf ID button until 2nd digit blinks, then push to advance to 0-9.
Note: The first digit stops blinking, and the second digit continues to blink.

d Replace end cap

e Wait 10 seconds for the Amber LED (!) to appear, then power-cycle the drive shelf to set shelf ID.

2 # Power on the controllers

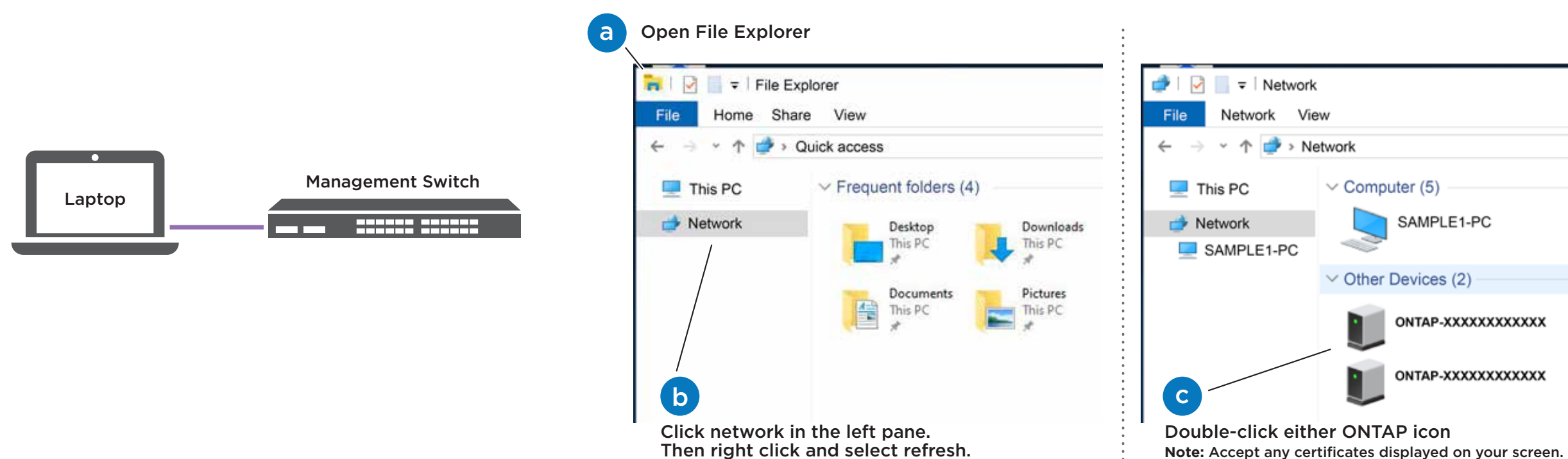Plug the power cords into the controller power supplies, and then connect them to power sources on different circuits.

Note: The system begins to boot as soon as the power supplies are connected to the power sources. **Booting may take up to 8 minutes.**
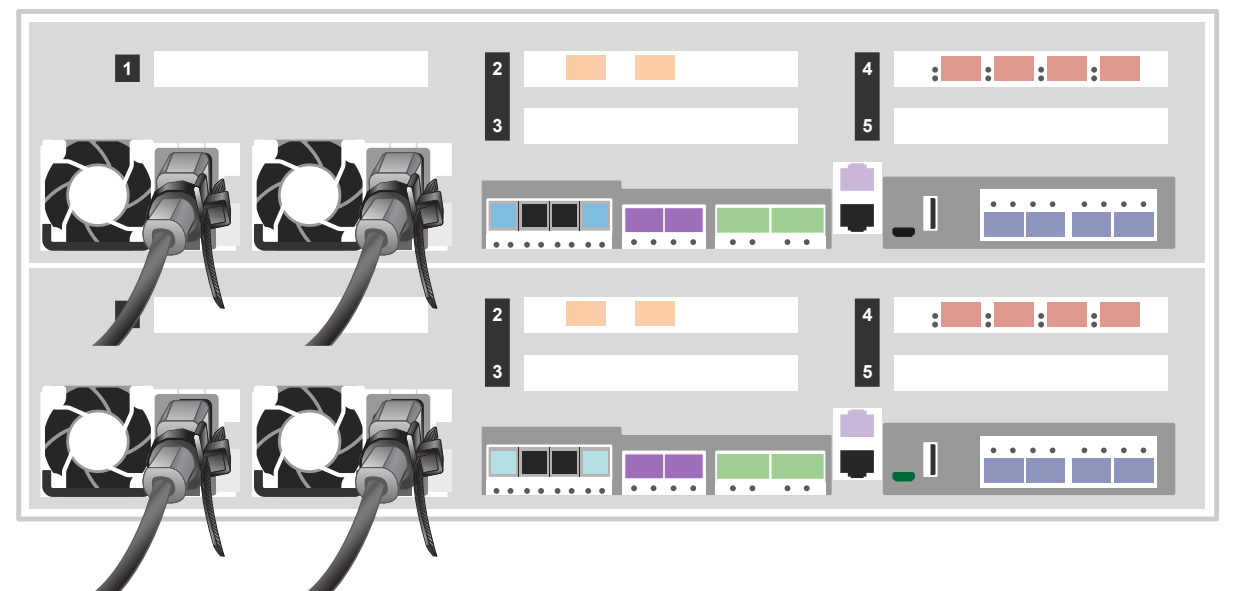
3 # Complete initial cluster setup with network discovery:

Note: If your laptop does not support network discovery, see the Installation and setup guide.

Connect your laptop to the management switch and access the network computers and devices using substeps a through c.

Laptop — Management Switch

a Open File Explorer

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

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

4 # Use System Manager Guided Setup to configure your cluster

5 # Completing setup

1. Click...
   a) mysupport.netapp.com b) Create/log in to your account
   c) Download and install Active IQ Config Advisor d) Register your system

2. Verify the health of your system by running Config Advisor.

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