

AFF A150 System Installation and Setup Instructions



Prepare for installation | Stage 1

Pre-setup

Contents
In the box

Cables in your shipment are order-dependent. Not all cables shown may be in your shipment.
Note: For more cable information and part numbers, see the [Hardware Universe](#).

You provide

1

Prepare for installation

2

Install hardware

3

Cable storage

4

Complete system setup and configuration

1. Unpack all boxes and inventory contents.
Attention: Customers with specific power requirements must check [Hardware Universe](#) for their configuration options.

2. Watch the [Setup Videos](#).

3. Review the [NetApp ONTAP Configuration Guide](#).

Note: For MetroCluster configurations, use the [MetroCluster installation content](#).

Unified configuration (order dependent)

Ethernet configuration (order dependent)

Data and cluster interconnect cables

Cluster interconnect cables
Part number X6566B-05-R6 or X6566B-2-R6

10 GbE network cables
(order dependent)
Part number X6566B-2-R6 or X6566B-3-R6 or X6566B-5-R6

Optical network cables
(order dependent)
Part number X6553-R6 or X6554-R6 or X6536-R6

CAT6 RJ-45 cables
Part number X6585-R6 or X6562-R6

Storage cables

mini-SAS HD to mini-SAS HD cables
Part number X66030A or X66031A or X66032A or X66033A

Additional cables

Ethernet cables

Power cables

micro USB console cable

Rack space
2U per chassis

Screwdriver
Phillips #2

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

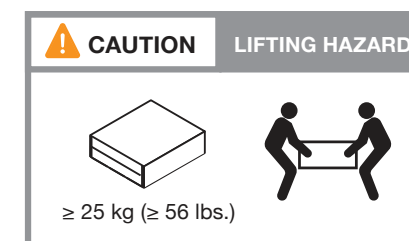
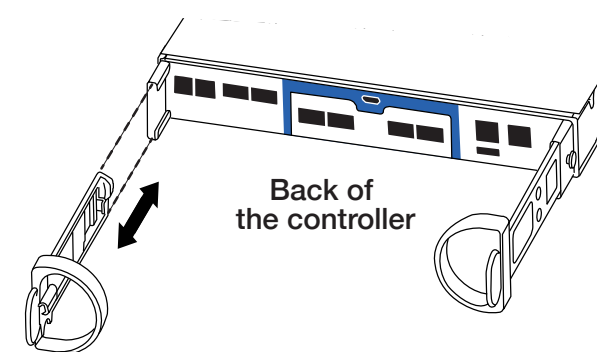
Laptop or console
With a USB/serial connection and access to a Web browser to configure your storage system

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Install hardware | Stage 2

1 Install the system

1. Use the rail or telco kit instructions to install controllers and shelves in the rack. Use the [42U 1280 mm System Cabinet Guide](#) for cabinet installation.
2. Attach cable management devices to the back of each controller (as shown).
3. Place the bezel on the front of the system.



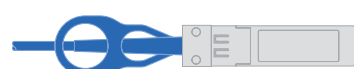
2 Cable controller for a switchless or switched cluster:

See your network administrator for help connecting to your switches.

Note: The illustrations below show the Unified configuration system. The cluster and management network cabling remain the same for an Ethernet configuration system. You will be using cables with RJ-45 connectors instead to connect to 10GbE switches.



Insert cables tab **DOWN** and gently push into place until it clicks.



Cluster interconnect cable

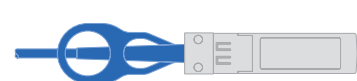
1 For switchless cluster

Connect port e0a to port e0a and port e0b to port e0b.

For switched cluster

Connect port e0a and port e0b on each controller to the cluster interconnect switches.

2 For Unified configuration



10 GbE network cables

OR



Optical network cables

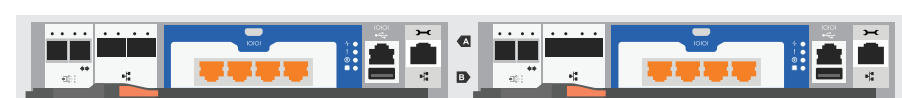
On each controller, connect ports e0c/0c and e0d/0d OR ports e0e/0e and e0f/0f to the FC host network switches.

For Ethernet configuration



CAT6 RJ-45 cables

On each controller, connect ports e0c and e0e OR ports e0d and e0f to the data network switches.

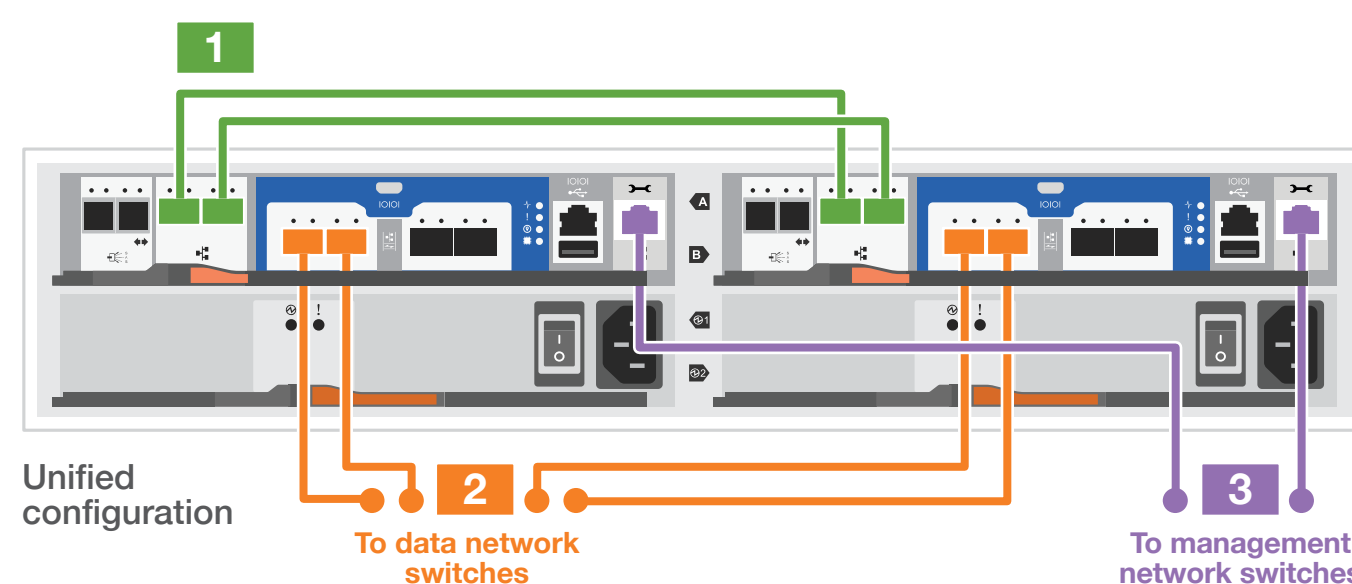


Ethernet cable

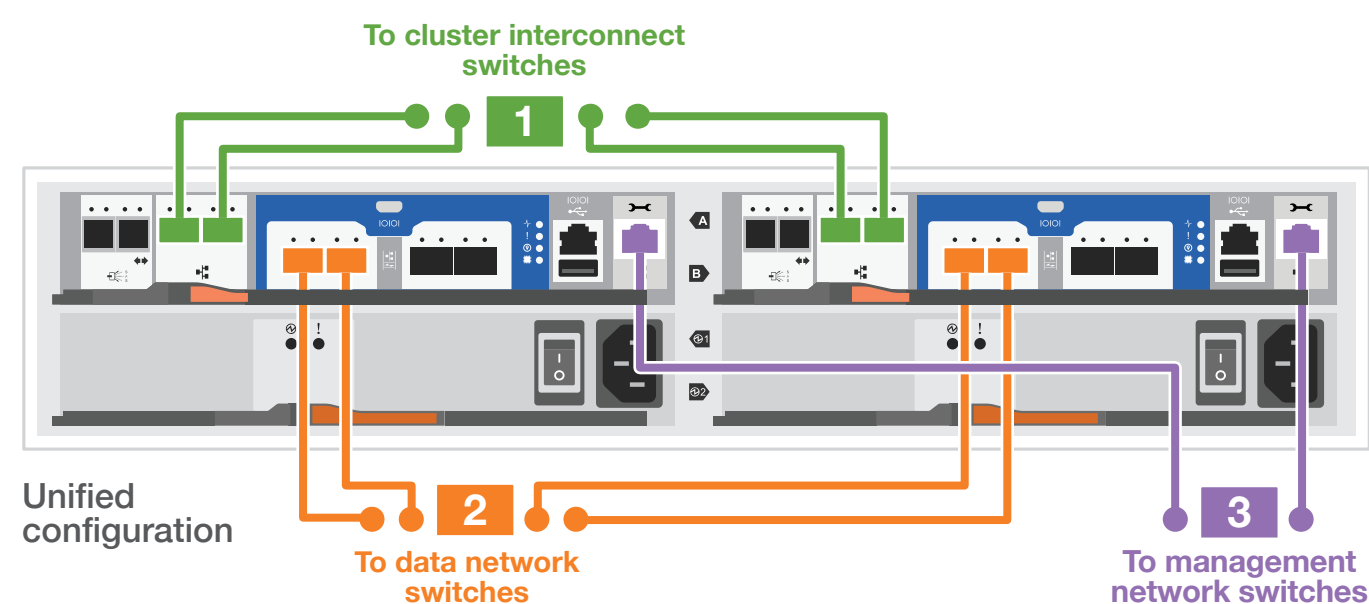
- 3 Connect the wrench port (e0M + BMC) on both controller modules to the management subnet switches.

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

Switchless cluster



Switched cluster



3 Connect both power cords



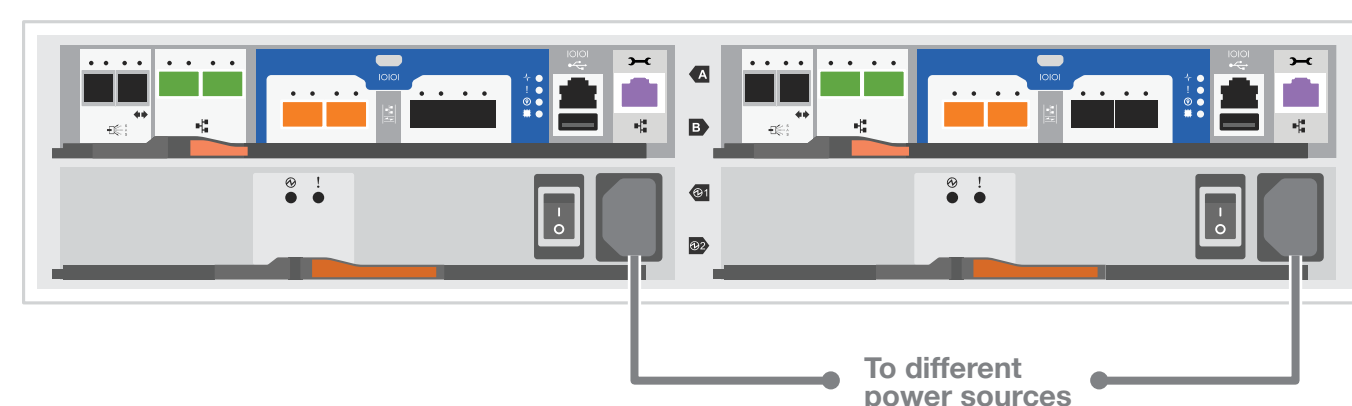
Power cables

Connect the power cables to both power supplies.

- Use the power cable retaining clips.

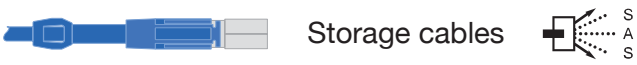


DO NOT turn on the power supply switches.



Cable storage | Stage 3

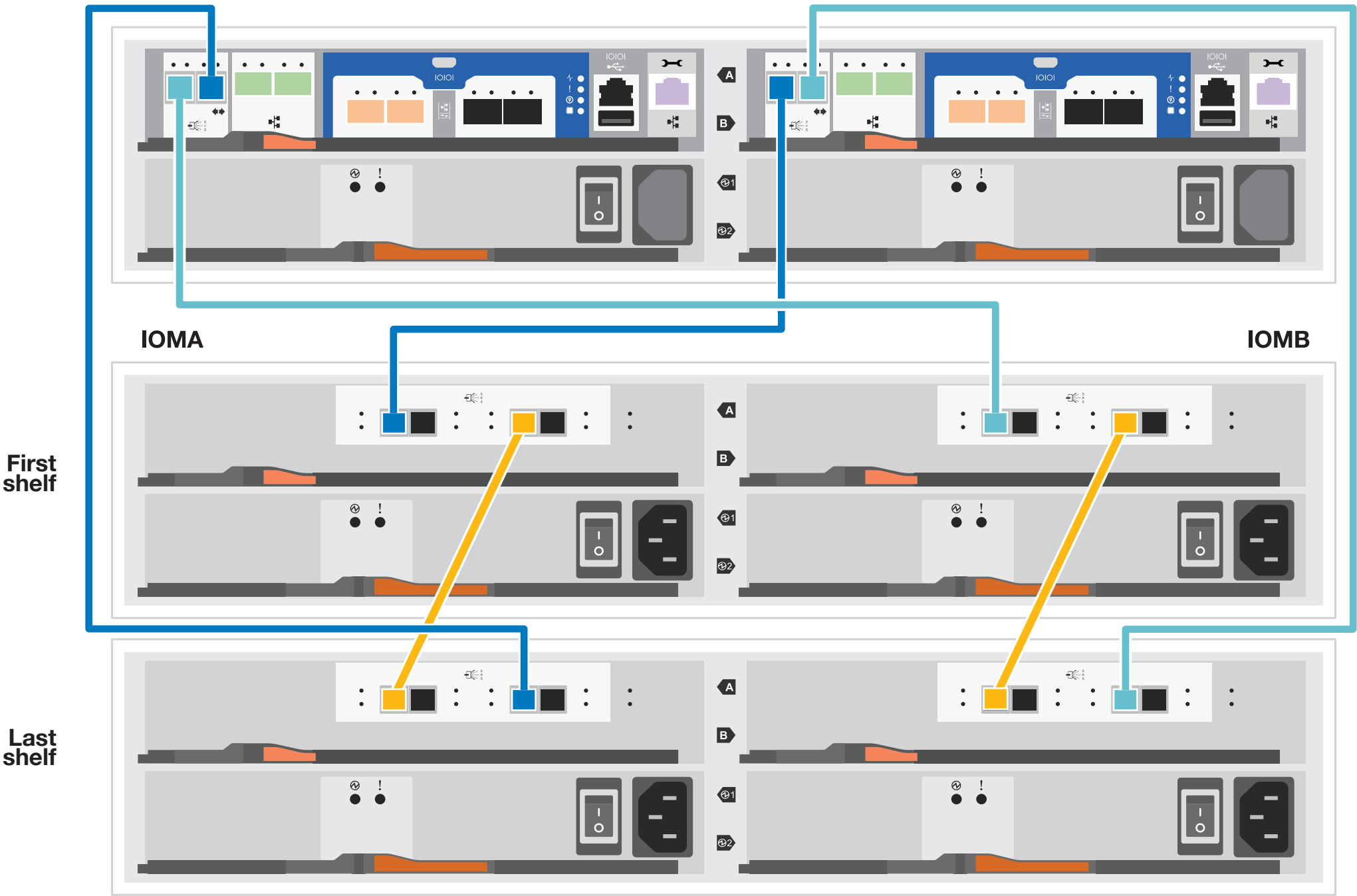
Cabling an AFF A150 series with three DS224C disk shelves



Insert mini-SAS HD cable tab **DOWN** and gently push into place until it clicks.

- 1 Connect the shelf-to-shelf ports
- 2 Connect each node to IOM A in the stack
- 3 Connect each node to IOM B in the stack

Note: See [SAS cabling rules, worksheets, and examples overview - shelves with IOM12/IOM12B modules](#) for cabling worksheets and additional cabling examples.

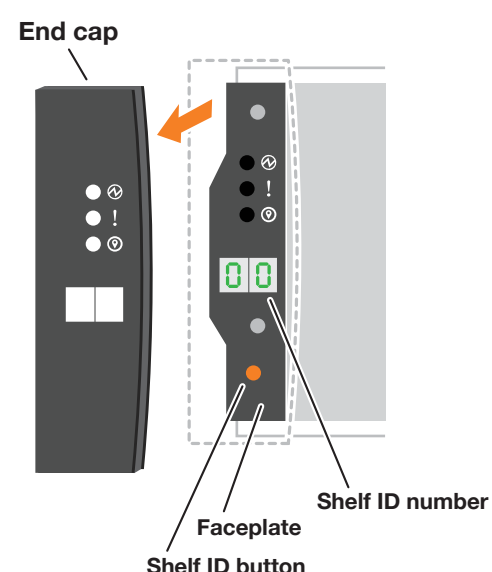


Dual controller system AFF A150

Complete system setup and configuration | Stage 4

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 IDs, continue with substeps a through e; otherwise, skip to “Power on the controllers” below.



- a. Remove end cap
 - b. 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. 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.
- Repeat these steps for any remaining drive shelves.

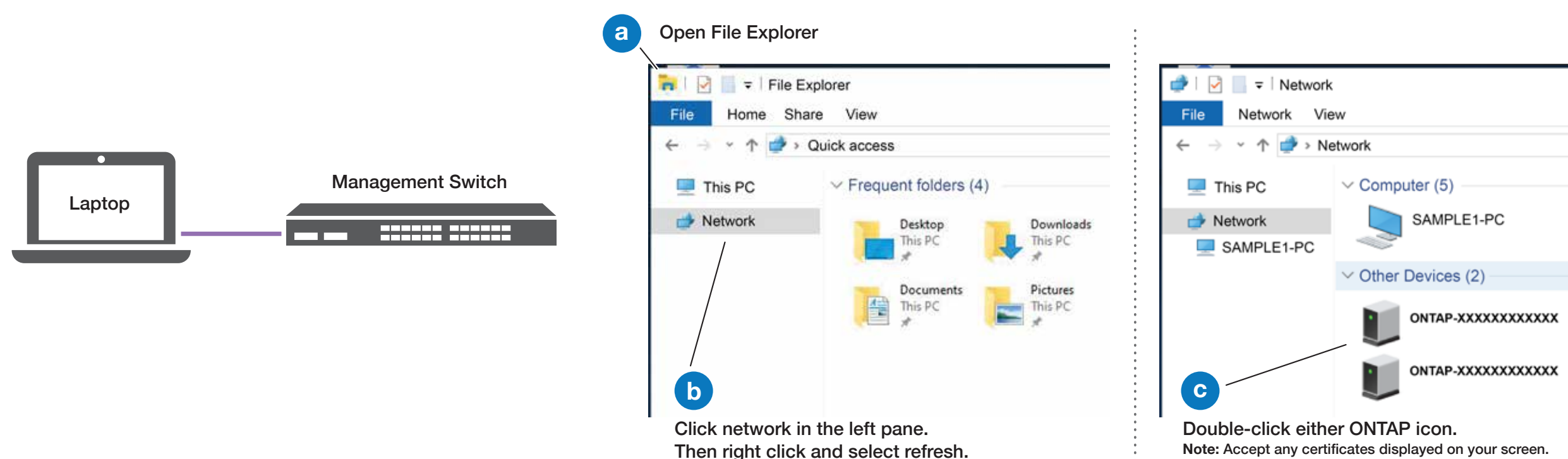
2 Turn on the power switches to all nodes



3 Complete initial cluster setup with network discovery:

Note: If your laptop does not support network discovery, see the [Detailed guide](#).

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



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.