NetApp®

AFF C190 Systems
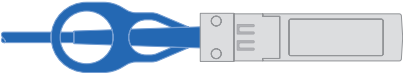## Installation and Setup Instructions

Prepare for installation │ Stage 1

Pre-setup
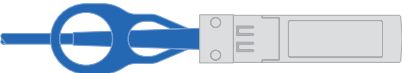
1. Unpack all boxes and inventory contents. For more cable information and part numbers, see the Hardware Universe.
2. Go to the AFF and FAS System Documentation Center and click AFF C190 systems, and then Installation and Setup:
   - Review the NetApp ONTAP Configuration Guide.
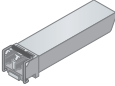   - Watch the videos listed under Setup videos.
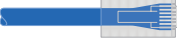
In the box

Data and cluster interconnect cables

Cluster Interconnect cables
Part number X6566B-05-R6 (112-00297) or X6566B-2-R6 (112-00299)

10 GbE network cables
(order dependent)
Part number X6566B-2-R6 (112-00299)
or X6566B-3-R6 (112-00300) or X6566B-5-R6 (112-00301)

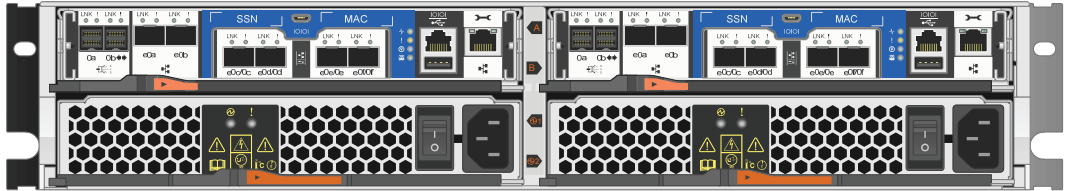**CAT6 RJ-45 cables**
(order dependent)
Part numbers X6585-R6 (112-00291)
or X6562-R6 (112-00196)

SFP for optical cables
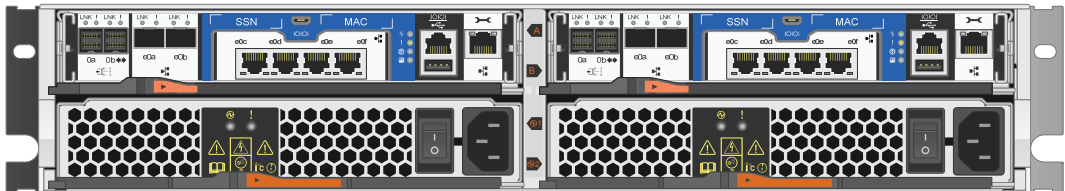**(order dependent)**

Optical network cables
(order dependent)
Part number X6553-R6 (112-00188) or X6554-R6
(112-00189) or X6536-R6 (112-00090)

Unified configuration (order dependent)

Ethernet configuration (order dependent)

Additional cables
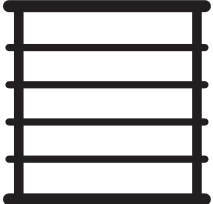
Ethernet cables   **micro USB console cable**   **Power cables**
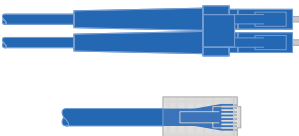
You provide

Rack space
2U per chassis

Screwdriver
Phillips

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

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

215-13793_B0

1 Install system in a rack or cabinet

- Install the 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.

Back of the controller

CAUTION LIFTING HAZARD

≥ 25 kg (≥ 56 lbs.)
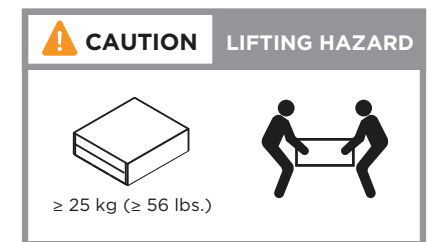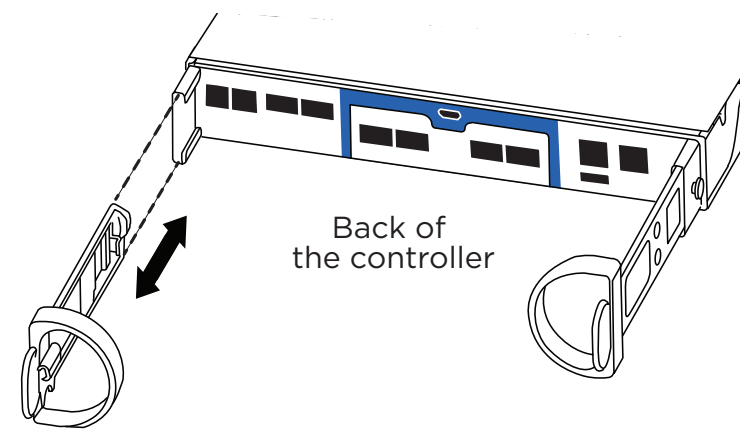
2 Cable controller for switchless or switched cluster

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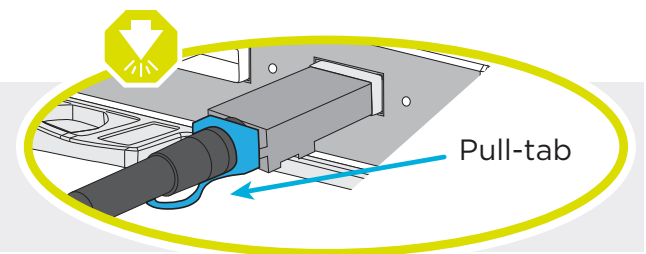
Note: The illustrations below show the Unified configuration system. The cluster and management network cabling remain the same for an Ethernet configuration system. You will be using cables with RJ-45 connectors instead to connect to 10GbE switches.
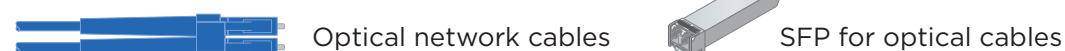
Cluster interconnect cables

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**

Optical network cables   SFP for optical cables

Insert the SFPs into ports e0c/0c and e0d/0d OR ports e0e/0e and e0f/0f and cable them to the optical Ethernet or FC switches.

10GbE network cables
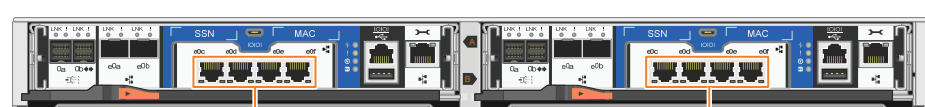
OR for 10GbE switches use this cable.

For Ethernet configuration systems

CAT6 RJ-45 cables

Cable ports e0c through e0f to the 10GbE switches.

Ethernet cables

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

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

A Switchless cluster

To FC host network switches or 10GbE switches

To management network switches

B Switched cluster

To cluster interconnect switches

To FC host network switches or 10GbE switches

To management network switches
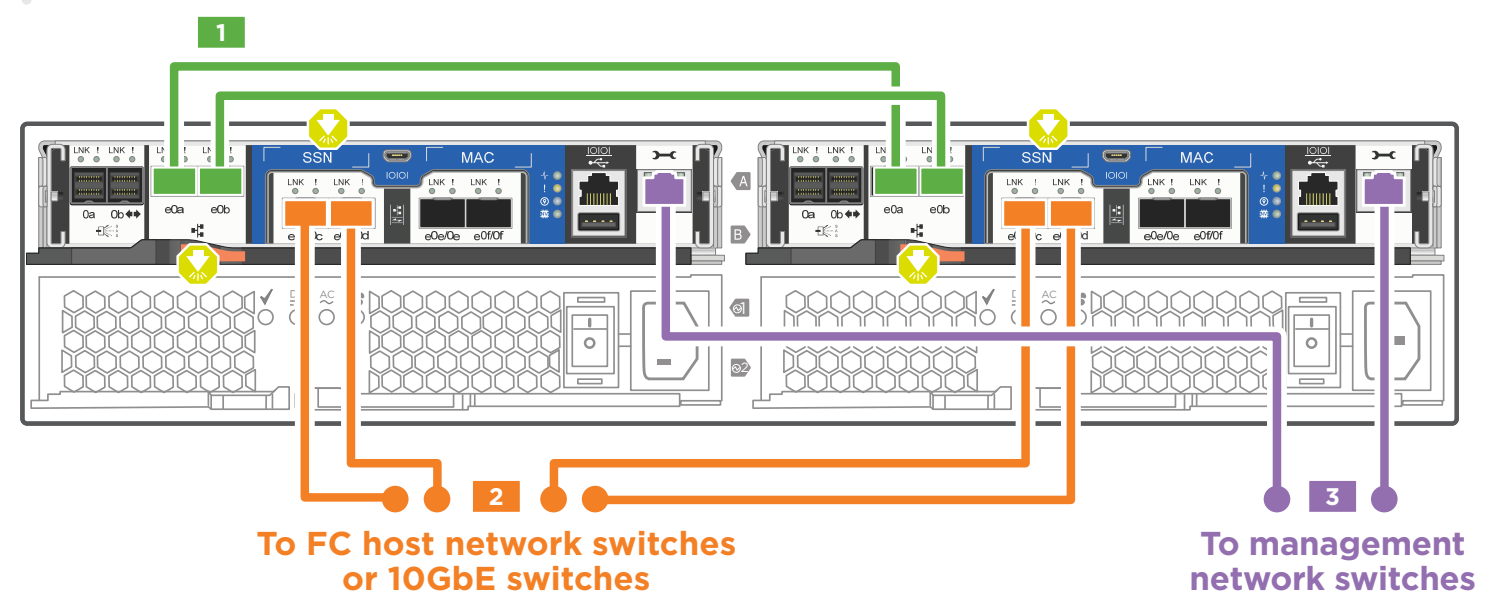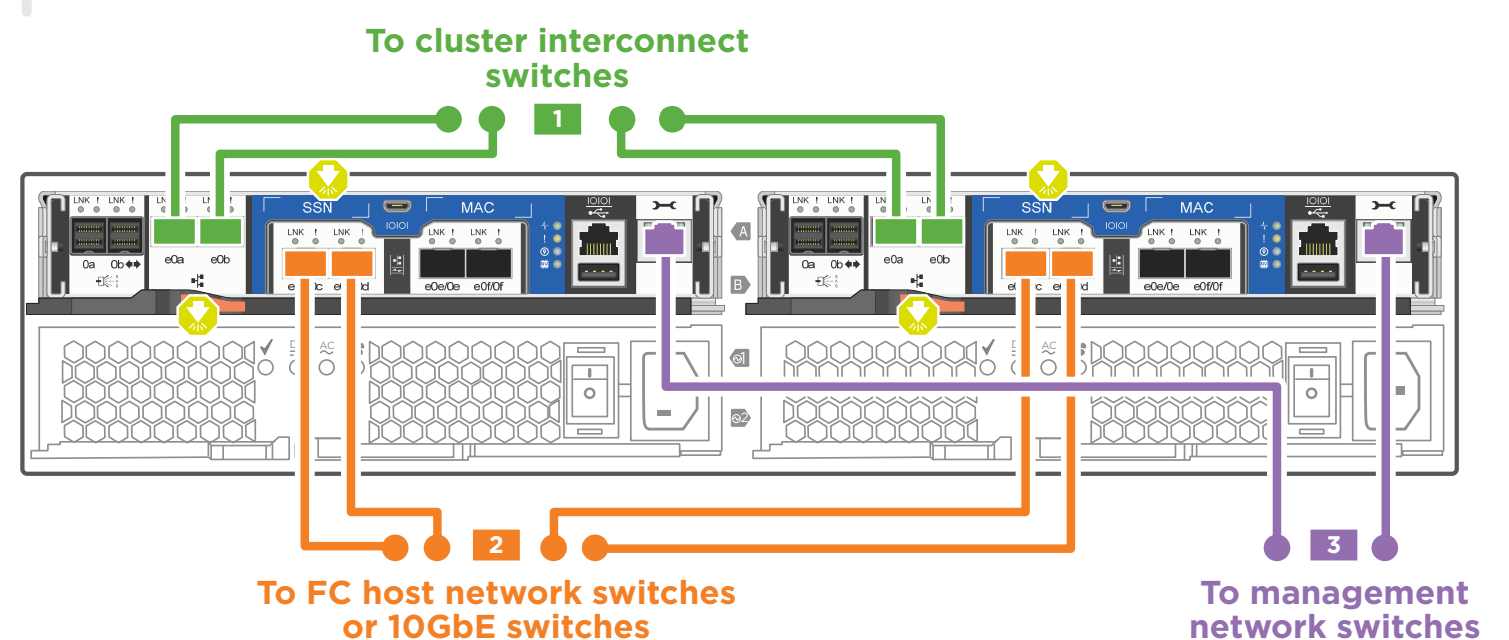
3 Connect both power cords

Power cables

Connect the power cables to both power supplies.
- Use the retaining clips.
- Connect power cables to different power sources.

Retaining clips   Retaining clips

1 Power on

Turn on the power switches to both nodes.
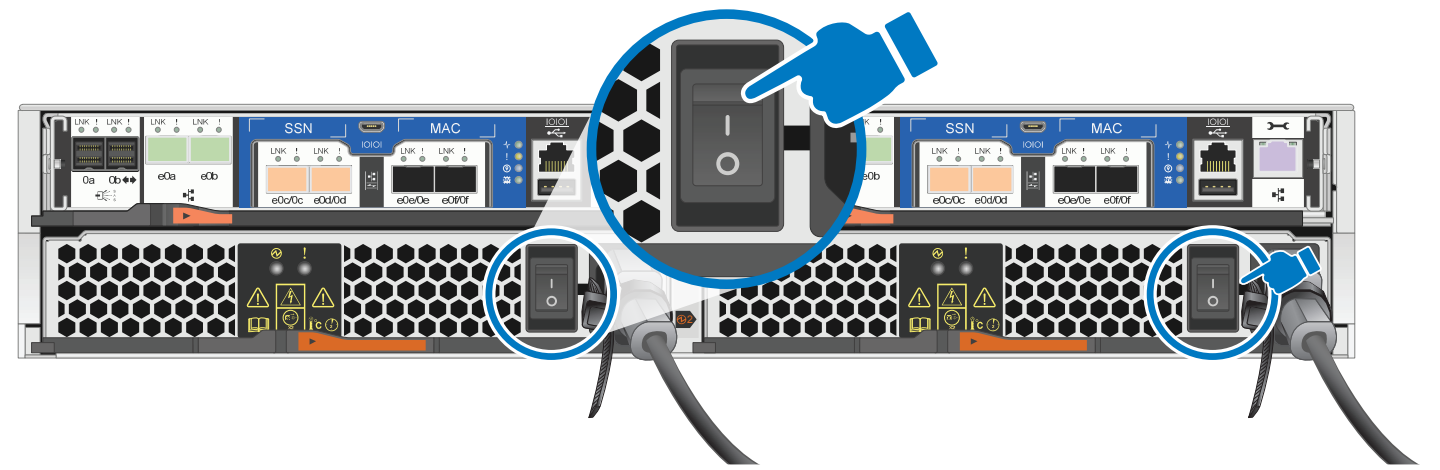
2 Complete initial cluster setup:

1. **Make sure that your laptop has network discovery enabled***.
   See your laptop's help for network discovery settings.

2. Connect your laptop to the Management switch.

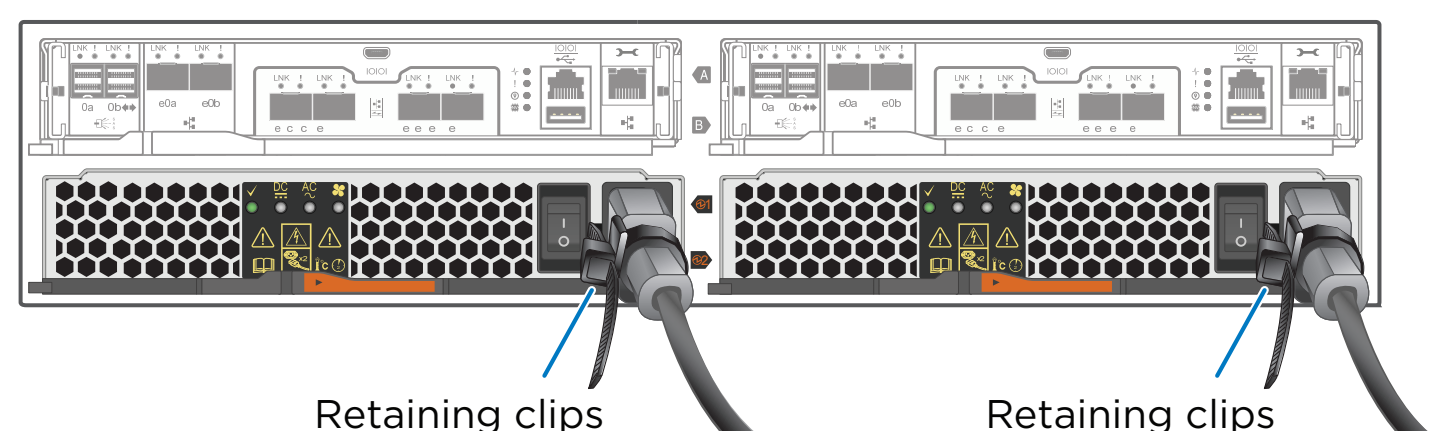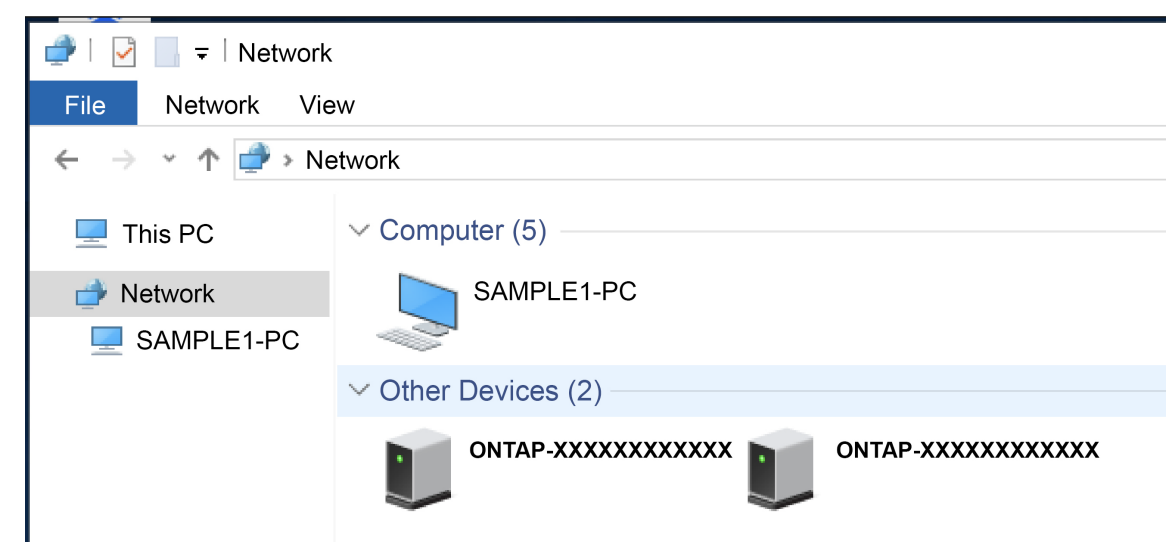3. Access the network computers and devices:
   - Open File Explorer
   - Click network in the left pane
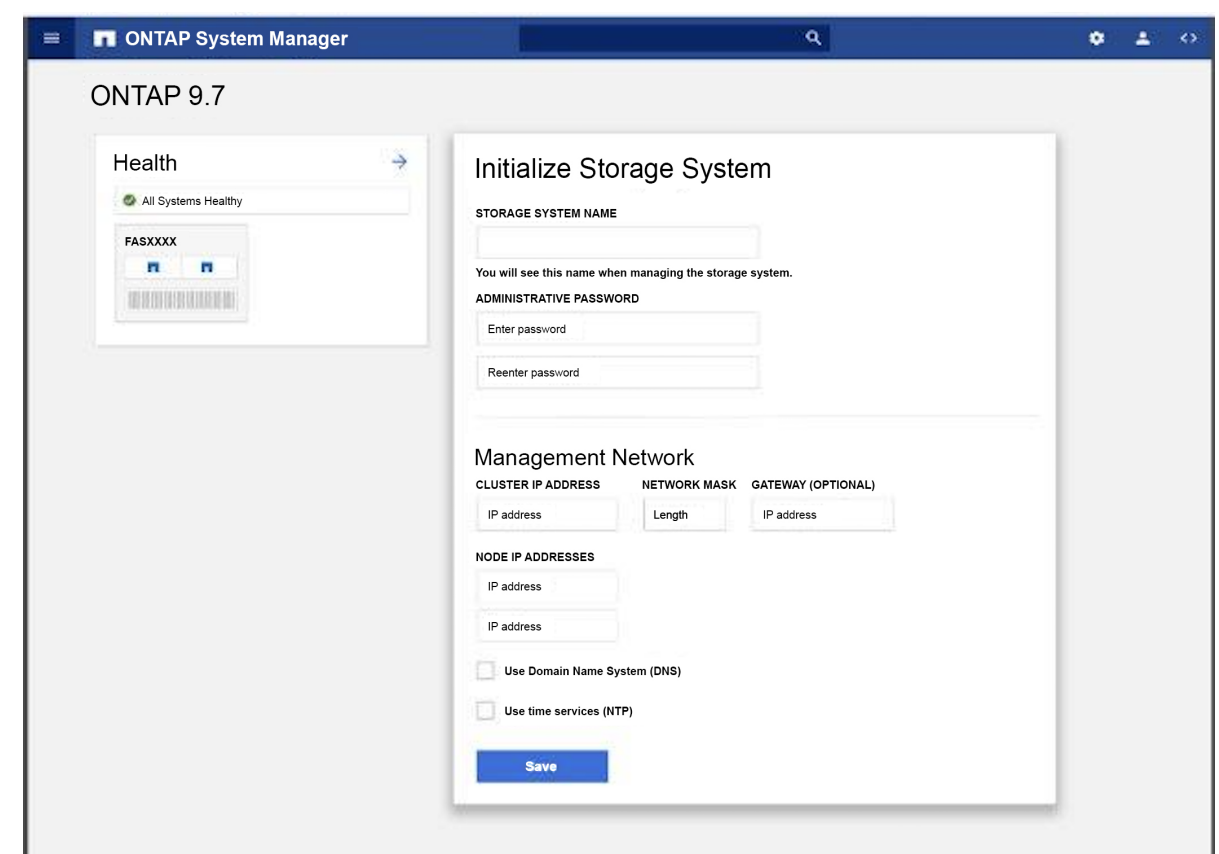   - Right click and select refresh.

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

***If your laptop does not support network discovery,
see the Installation and setup guide for your model for
how to complete initial cluster setup.**

Laptop

Management subnet

	Network
File	Network	View
	› Network
This PC	∨ Computer (5)
Network	SAMPLE1-PC
SAMPLE1-PC	
	∨ Other Devices (2)
	ONTAP-XXXXXXXXXXXX ONTAP-XXXXXXXXXXXX

3 Use System Manager Guided Setup to configure your cluster

ONTAP System Manager

ONTAP 9.7

Health
All Systems Healthy
FASXXXX

Initialize Storage System
STORAGE SYSTEM NAME
You will see this name when managing the storage system.
ADMINISTRATIVE PASSWORD
Enter password
Reenter password

Management Network
CLUSTER IP ADDRESS   NETWORK MASK   GATEWAY (OPTIONAL)
IP address   Length   IP address
NODE IP ADDRESSES
IP address
IP address
☐ Use Domain Name System (DNS)
☐ Use time services (NTP)
Save

4 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.

Note: The default port configuration for Unified configuration systems is CNA mode; if connecting to an FC host network, you have to modify the ports for FC mode.