

ThinkSystem AFA DG5000

Installation and Setup Instructions

Prepare for installation

1

Install hardware

2

Cable configuration-
dependent options

3

Complete system setup
and configuration

4

Prepare for installation | Stage 1



Pre-setup

1. Unpack all boxes and inventory contents.

Attention: Customers with specific power requirements must check Lenovo Press (<https://lenovopress.com>) for their configuration options.

2. Review the *ThinkSystem DG5000 Hardware Installation and Maintenance Guide*:

<https://thinksystem.lenovofiles.com/storage/help/topic/dg5000/overview.html>

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

https://thinksystem.lenovofiles.com/storage/help/topic/ontap-metrocluster_install-ip/index.html



Contents
In the box

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

25 GbE cable (SFP28)
HA and cluster interconnect



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



RJ-45 cables
Wrench port (e0M/BMC)
Data port (e0a/e0b)
(order-dependent)



Additional cables



Ethernet cables



Power cables



Micro USB console cable

Slide rail kit



Note: For more cable information and part numbers, see the Lenovo Press (<https://lenovopress.com>).



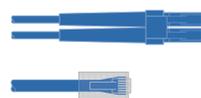
You provide



Rack space
2U for AFA DG5000



Screwdriver
Phillips #2

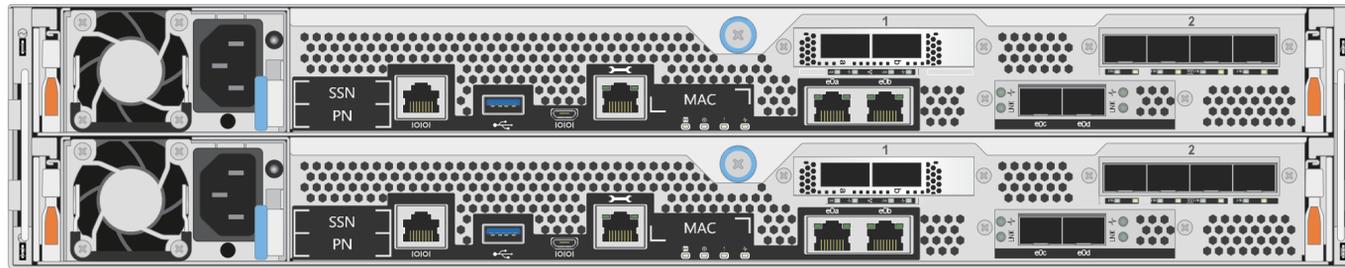


Additional network cables
For connecting your storage system
to your network switch and laptop
or console.



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

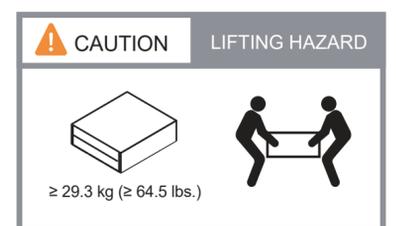
Install hardware | Stage 2



Rear view of AFA DG5000 system

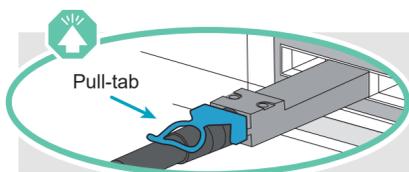
1 Install system in a rack or cabinet:

- Install the rail kit as needed, and then install and secure your system using the instructions included with the kit.
- Use cable identification and management system of your choice. The system does not have a cable management device.
- Place the bezel on the front of the system.



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.

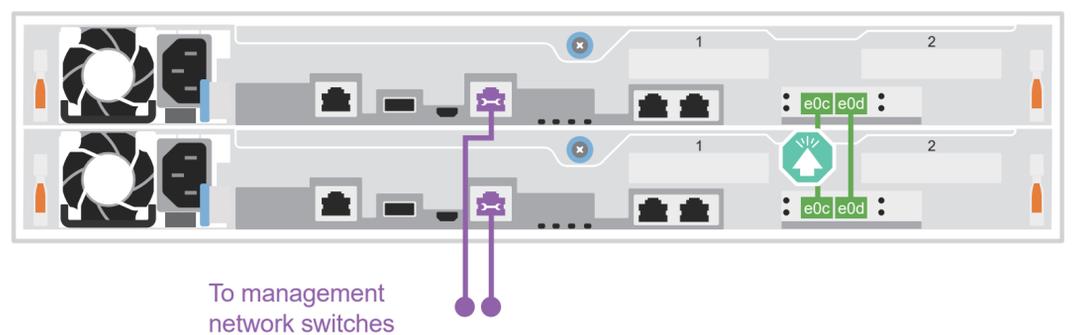
Switchless cluster

 25 GbE cables

- Cable the e0c port to the e0c port and then cable the e0d port to the e0d port.

 Ethernet cables

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



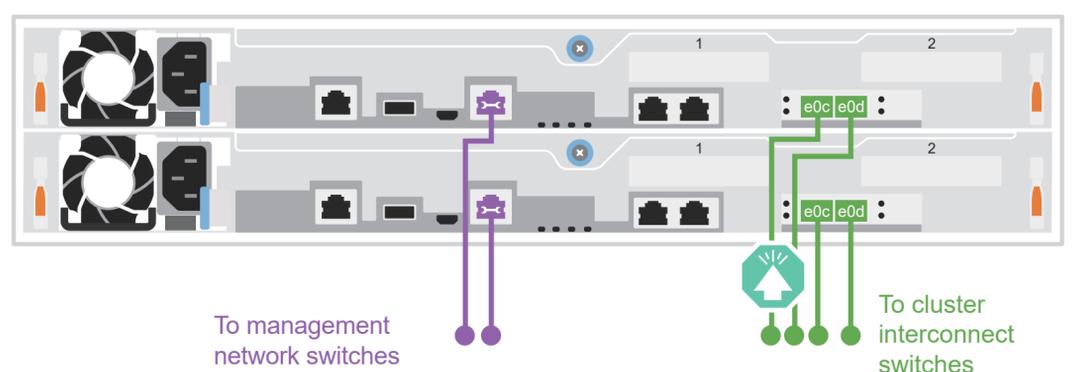
Switched cluster

 25 GbE cables

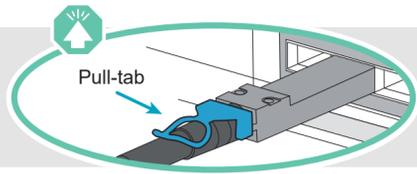
- Cable port e0c and port e0d on each controller to the cluster interconnect switches.

 Ethernet cables

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



Cable configuration-dependent options | Stage 3



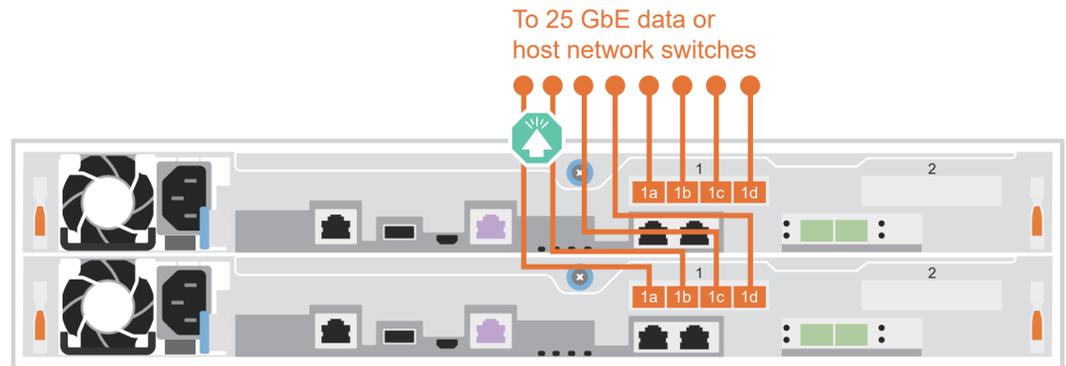
Attention: Be sure to check the illustration arrow for the proper cable connector pull-tab orientation.
Note: To unplug a cable, gently pull the tab to release the locking mechanism.

A 25 GbE host network



25 GbE cables

Cable ports 1a through 1d to data or host network switches.

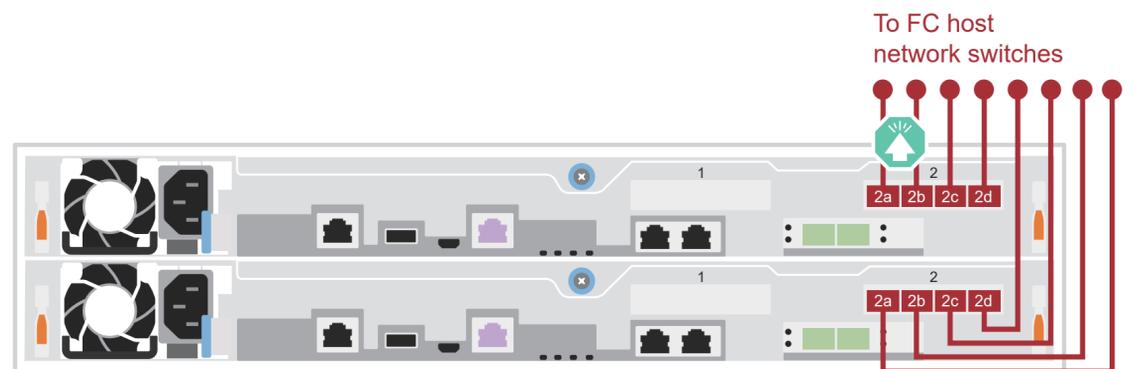


B FC host network



32 Gb FC cables

Cable ports 2a through 2d to the FC host network switches.



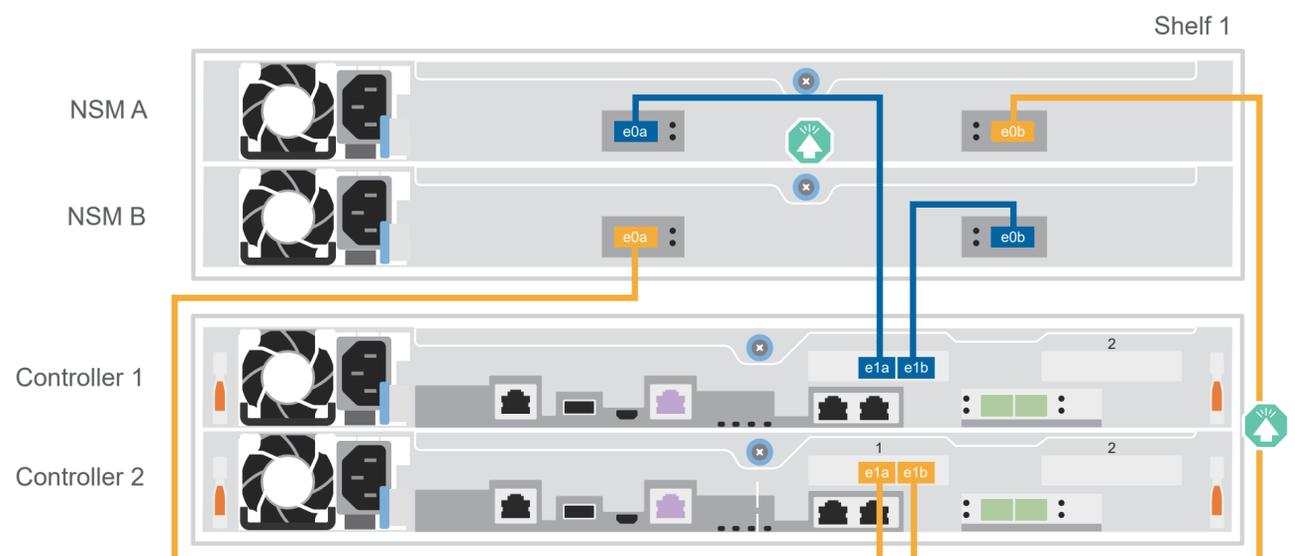
C External storage

Cabling an AFA DG5000 system to one DM240N shelf



100 GbE for storage cable

- 1 Cable e1a on controller 1 to the e0a on NSM A on the DM240N.
Cable e1b on controller 1 to the e0b on NSM B on the DM240N.
- 2 Cable e1a on controller 2 to the e0a on NSM B on the DM240N.
Cable e1b on controller 2 to the e0b on NSM A on the DM240N.



1 Power on the shelves and set shelf IDs:

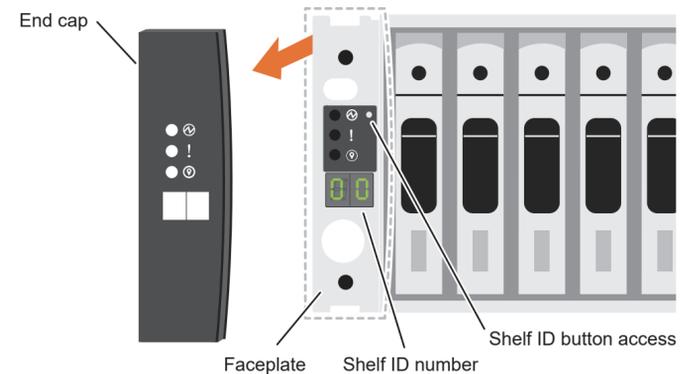
Note: For DM240N drive shelves, shelf IDs are pre-set to 00 and 01. If you want to change the shelf IDs, use the straightened end of a paperclip, or narrow tipped ball point pen to access the shelf ID button behind the faceplate.

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

Note: DM240N shelves have no power switch and will begin to boot.

2. If you need to change the shelf IDs, see *Changing a DM240N drive shelf ID* for detailed instructions:

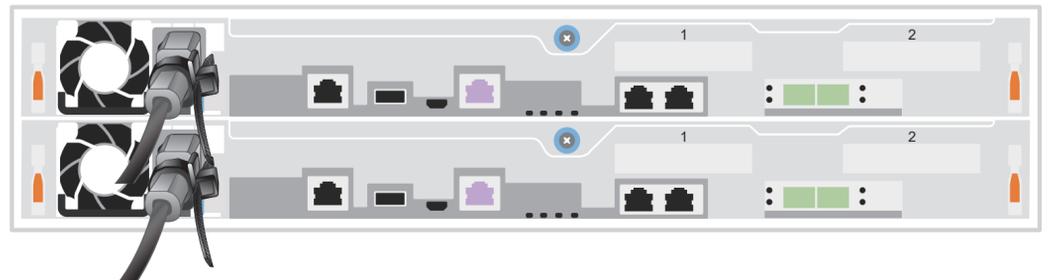
https://thinksystem.lenovofiles.com/storage/help/topic/dm240n-nvme-shelfid/M_762128BB-169D-4EFA-AA38-FEF4F2A31488_.pdf



2 Power on the controllers:

Connect the controllers to different power sources.

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 "Detailed guide":

https://thinksystem.lenovofiles.com/storage/help/topic/dg5000/91FA78D3-A39E-451D-BB17-6476972A0716_.html

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

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.

The diagram shows a laptop connected to a management switch. To the right are two screenshots of Windows File Explorer. The first screenshot shows the 'Network' icon in the left pane, with a callout 'b' pointing to it. The second screenshot shows the 'Network' view with 'Computer (5)' and 'Other Devices (2)' sections, with a callout 'c' pointing to two 'ONTAP-XXXXXXXXXX' icons.

4 Use Storage Manager Guided Setup to configure your cluster.

5 Complete setup

1. Go to Lenovo Service Connect (<https://commercial.lenovo.com>) and login with your corporate account.
2. After you have completed the initial configuration, go to the ONTAP Software documentation for information about configuring additional features in ONTAP:

https://thinksystem.lenovofiles.com/storage/help/topic/ontap_software/overview.html



HELPFUL LINKS

- ThinkSystem Storage Documentation
<https://thinksystem.lenovofiles.com/storage/help/index.jsp>
- Lenovo Data Center Support Web site (worldwide)
<https://datacentersupport.lenovo.com/>
- Lenovo Data Center Support Web site (China)
<https://support.lenovo.com.cn/EsWeb/>