

DM3000x and DM5000x Systems Installation and Setup Instructions



Prepare for installation | Stage 1

Pre-setup

1. Unpack all boxes and inventory contents.
2. Complete the Cluster Configuration Worksheet.

In the box

<p>----- Data and cluster Interconnect cables -----</p>  <p>Cluster Interconnect cables</p>	<p>----- 10 GbE network cables -----</p>  <p>10 GbE network cables (order dependent)</p>	<p>----- Storage cables -----</p>  <p>mini-SAS HD to mini-SAS HD cables</p>			
<p>----- Optical network cables -----</p>  <p>Optical network cables (order dependent)</p>	<p>----- Additional cables -----</p> <table border="0"> <tr> <td style="text-align: center;">  Ethernet cables </td> <td style="text-align: center;">  Power cables </td> <td style="text-align: center;">  micro USB console cable </td> </tr> </table>		 Ethernet cables	 Power cables	 micro USB console cable
 Ethernet cables	 Power cables	 micro USB console cable			

You provide

 Rack space 2U per chassis	 Screwdriver	 Additional network cables For connecting your storage system to your network switch and Microsoft® Windows® client	 Client With a USB/serial connection and access to a Web browser to configure your storage system
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1 Rear view of the controllers



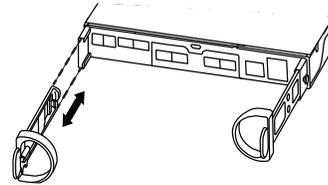
Unified configuration



Ethernet configuration

2 Install system in a rack

- Install the rail kits, as needed, and then install and secure your system using the instructions included with the kit.
- Attach cable management devices (as shown).
- Place the bezel on the front of the system.



3 Cable controller for cluster



For switchless cluster

- 1 Connect port e0a to port e0a and port e0b to port e0b.

For switched cluster

- 1 Connect port e0a and port e0b to the cluster interconnect switches.

For Unified configuration



- 2 Connect ports e0c and e0d OR ports e0e and e0f to the data network switches.

For Ethernet configuration



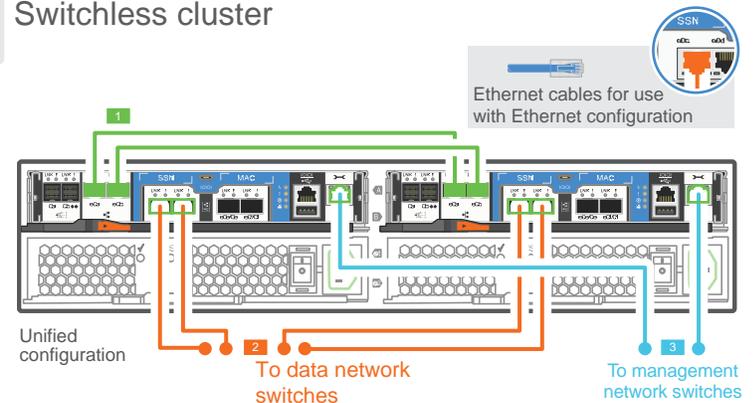
- 2 Connect ports e0c and e0e OR ports e0d and e0f to the data network switches.



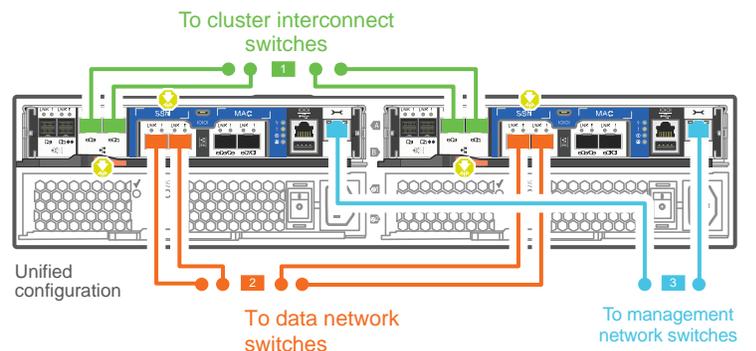
- 3 Connect the wrench port (e0M) on both controller modules to the management subnet switches.

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

Switchless cluster



Switched cluster



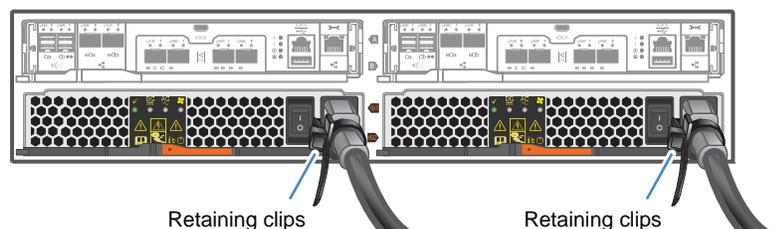
4 Connect both power cords



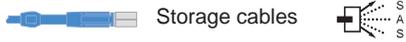
Connect the power cables to both power supplies.

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

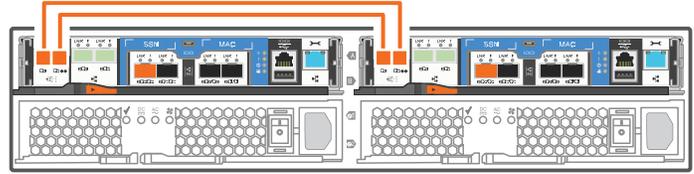
DO NOT turn on the power supply switches.



A Cabling a DM3000x or DM5000x series with NO external storage



- 1 Connect the SAS ports of both controllers:
 - Controller 1 0a to Controller 2 0b
 - Controller 1 0b to Controller 2 0a



STOP HERE. If you have NO external storage, skip to stage 4, complete system setup and configuration.

B Cabling a DM3000x or DM5000x series WITH external storage (DM120S or DM240S)

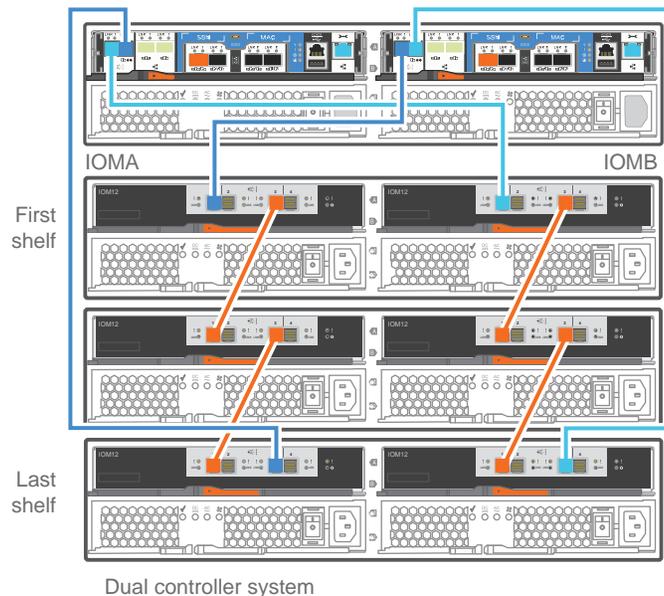
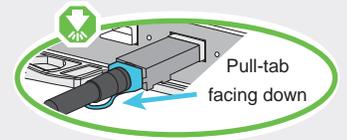
NOTE: Prior to connecting the Nodes to the IOMs in the stack, verify that the Tied Controller System ID matches your DM controller Serial Number using the label on the top of the expansion shelf. Refer to the label graphics on the right.



- 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

Orient the cable connector pull-tab in the correct direction, then gently push the connector into place until it clicks.

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



Complete system setup and configuration | Stage 4

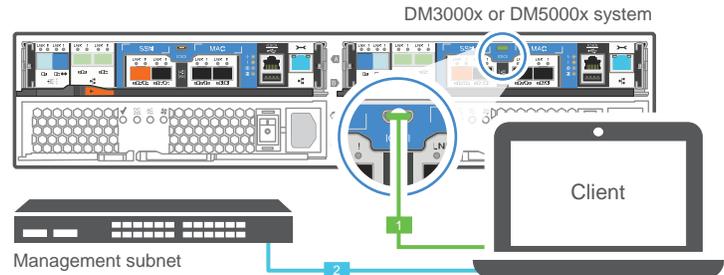
1 Cable and configure your client

micro USB console cable

- 1 Set the console port on the client to 115,200 baud with N-8-1, connect to the micro-USB port on the controller with the console cable.

Ethernet cable

- 2 Connect the client to the switch on the management subnet and give the client a TCP/IP address on the management subnet.



2 If your system has one or more drive shelves, set the shelf IDs:

1. Power on the drive shelf, and then remove the end cap on the left of the shelf.
2. Press and hold the orange button until the first digit blinks, and then press the button to advance the first digit (0-9) to the desired number. The first digit continues to blink.
3. Press and hold the button until the second digit blinks, and then press the button to advance the second digit (0-9) to the desired number. The first digit stops blinking, and the second digit continues to blink. Each expansion shelf requires a unique shelf ID.
4. Press and hold the button until the second digit stops blinking, and then replace the end cap on the shelf.
5. Wait about 10 seconds for both digits to start blinking again and for the LED to illuminate, and then power-cycle the drive shelf to make the shelf ID take effect.
6. Repeat these steps for any remaining drive shelves.



3 Turn on the power switches to both nodes



4 Configure your system using the Application Setup Wizard

1. Assign an initial node management IP address to one of the nodes if you have DHCP configured on your management network, record the IP address assigned to the new controllers. Otherwise,
 - a. Open a console session using PuTTY, a terminal server, or the equivalent for your environment.
 - b. Enter the node management IP address when prompted.
2. Use Storage Manager Guided Setup to configure your cluster.
 - a. Point your browser to the address you assigned in step 1:
`https://x.x.x.x`.
 - b. Enter the data from your Cluster Configuration Worksheet.

Note: When using Guided Setup to configure your cluster, ensure that your service processor addresses are configured in an isolated network so that the addresses are not routable.



HELPFUL LINKS

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

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