Before you begin


☐ Download the PowerStore Quick Start Guide Discovery Utility at http://dell.com/powerstoredocs. This tool helps you discover your appliances within your network, if you are remote.

☐ Create a support account at https://dell.com/support. You need this account later in the configuration process to activate software licenses and configure Dell EMC SupportAssist.


☐ Record network addresses: Download the networking guide for your model from http://dell.com/powerstoredocs, and work with your network administrator to complete the Initial Configuration Worksheet section.

☐ Get lift assistance: Obtain the help of a second person to install the enclosure into the rack or use a mechanical lift.

Note: If your appliance arrived pre-racked, begin installation at Step 5 of this guide.

Installation workflow
1. Unpack your system

Verify that you have the following:

Base enclosure:
- [ ] 2U base enclosure (1)
- [ ] Rails (2)
- [ ] Power cables (6, only 2 required per enclosure)\(^1\)
- [ ] Network cables (4)
- [ ] Mini-SAS HD cables (2)\(^2\)
- [ ] Electrostatic discharge clip (1)
- [ ] Bezel, with key (1)

Expansion enclosure (optional):
- [ ] 25-drive expansion enclosure (1)
- [ ] Rails (2)
- [ ] Mini-SAS HD cables (2)
- [ ] Power cables (4, only 2 required per enclosure)
- [ ] Bezel, with key (1)
- [ ] Cable label sheet (3)

\(^1\) Only 4 included for PowerStore 500T
\(^2\) Not included for PowerStore 500T

Decide where to install the base enclosure
- Install your base enclosure in the lowest possible space, leaving 2U of space open at the bottom of your cabinet for serviceability.
- If installing an expansion enclosure, install the expansion enclosure in the next available 2U space, directly above the base enclosure or the last expansion enclosure in the system.
- Leave 4U at the top of the rack for network switches.
- It is recommended that you also leave 36 inches of clearance in front of and behind the rack for serviceability.

2. Install the rails into your cabinet

When installing the rails, ensure that the rail pins are lined up correctly:

- For the front end of the rail, the bottom pin of the rail goes through the middle hole of the lower U, and the top pin goes through the top hole of the upper U.
- For the rear end of the rail, the bottom pin of the rail goes through the bottom hole of the lower U, and the top pin goes through the top hole of the upper U.

1. Position the rail so the label FRONT is located at the front of the rack and facing towards the inside of the rack, while orienting the rear of the rail to align level with the holes on the rear of the rack.
2. From the rear of the rack, pull the rail straight back until the latch is locked.
3. To install the front of the rail, press the blue latch release button until the latch rotates open.
4. Pull the rail forward until the pins slide into the holes on the front of the rack, then release the latch to secure the rail in place.
5. Repeat for the other rail.

Note: Racks are shown with round holes. The installation instructions are the same for racks with square holes. For racks with threaded holes, remove the guide pin on the rails before installation.
3. Install the base enclosure onto the rails

⚠️ **CAUTION**

The base enclosure is heavy and should be installed into or removed from a rack by two people. To avoid personal injury and/or damage to the equipment, do not attempt to lift and install the base enclosure into a rack without a mechanical lift and/or help from another person.

1. From the front of the rack, slide the base enclosure onto the rails.
   Ensure that the base enclosure is flush with the front of the rack, fully seated in the cabinet, and does not easily slide out.

2. (Optional) If securing the system for shipment in the cabinet or for other unstable environments:
   Locate the captive screw under each latch and tighten to the front of the cabinet using a #1 Phillips screwdriver.
4. Record the Dell Service Tag

Locate and record the number from the black Dell Service Tag on the front of the base enclosure.

5. Install optional expansion enclosures*

For each additional expansion enclosure, repeat steps 2 and 3 to install the rails and expansion enclosure onto the rails.

If you are not installing an expansion enclosure, continue to step 7.

6. Connect the expansion enclosure to the base enclosure*

Before you begin:
Select a single color of cable labels for use on all of the enclosures attached to the base enclosure (3 maximum). Apply cable labels at each end of the following cables:
- Node to first expansion enclosure
- Node to last expansion enclosure
- Expansion enclosure to expansion enclosure

Cable both embedded modules on the base enclosure to the link control card (LCC) on the new expansion enclosure:
1. Connect node A, SAS port B to LCC A, port A on the expansion enclosure (1).
2. Connect node B, SAS port B to LCC B, port A on the expansion enclosure (2).
3. Connect node B, SAS port A to LCC A, port B on the expansion enclosure (3).

If adding a second and third expansion enclosure, daisy chain the enclosures using the diagrams on the cable label sheet.

*Not applicable for PowerStore 500T.
7. Connect the base enclosure to your switches

PowerStore T model deployments
Cable the management interface on both nodes to a management switch or network.

**Note:** You will require two additional network cables to complete this step.

Note: For more detailed instructions on recommended networking configurations, including how to configure PowerStore T with top-of-rack switches, see the *PowerStore Networking Guide for PowerStore T Models* at [http://dell.com/powerstoredocs](http://dell.com/powerstoredocs). Check with your network administrator to determine which ports on your switches to use.

PowerStore X model deployments
1. Connect your base enclosure to two switches to ensure a strong layer of redundancy. Cable the Ethernet switches together by connecting two 100GbE ports of the bottom switch to two 100 GbE ports of the top switch.

2. Using the supplied cables, connect the network cables on node A:
   a. Port 0 of the embedded module connects to switch 1.
   b. Port 1 of the embedded module connects to switch 2.

3. Connect the network cables on node B:
   a. Port 0 of the embedded module connects to switch 2.
   b. Port 1 of the embedded module connects to switch 1.

**Note:** These instructions show a minimum cabling configuration. For more detailed instructions on recommended networking configurations, see the *PowerStore Networking Guide for PowerStore X Models* at [http://dell.com/powerstoredocs](http://dell.com/powerstoredocs). Check with your network administrator to determine which ports on your switches to use.
8. Power up

a. Expansion enclosure

Connect the power cable to the power supply and close the retention bail over the base of the power cable. Connect the other end of each power cable to PDU A and PDU B. Repeat for all enclosures racked.

b. Base enclosure

Plug each power cable into the base enclosure power supply unit and close the retention bail over the base of the power cable. Connect the other end of each power cable to PDU A and PDU B. After you connect the power cables, the base enclosure automatically starts up.
9. Attach the bezel

1. Align the bezel with the expansion enclosure.
2. Gently push the bezel into place on the cabinet until it latches.
3. Lock the bezel with the provided key.

   a. Base enclosure

   b. Expansion enclosure

10. Discover your system

Next, discover your newly installed base enclosure, and then create a cluster.

**Note:** The procedure in this section only applies if you are physically present within the datacenter. If you do not have access to the base enclosure, download and run the PowerStore Discovery Utility on a remote system or virtual machine to discover your system. Refer to the networking guide for your model for more information on setting up your workstation and using the PowerStore Discovery Utility.
Before you begin:

- (Optional) Download and run the PowerStore Network Validation Tool (NVT) to validate that your networks are correctly configured. The NVT can be downloaded from Dell EMC Central Solutions at https://psapps.emc.com/central/solutions.
- Ensure that your workstation’s network adapter is configured as follows:
  - Connected directly to the PowerStore service port on node A
  - Configured with a static IP address on the service LAN network (128.221.1.0/24) with no gateway address defined (128.221.1.249; 255.255.255.0; no gateway)
  - Able to ping the IP address of node A’s service LAN port (128.221.1.250)

1. Connect your workstation or laptop to the service port on node A of the base enclosure.

2. In a web browser, go to https://128.221.1.250.

Log on to PowerStore Manager and begin the initial configuration process using the following default credentials:

   - Username: admin
   - Default password: Password123#

   **Note:** You must change this default password during initial configuration.

   You can disconnect the workstation or laptop from the service port after the initial configuration process is complete.

What’s next?

Use the information from the Initial Configuration Worksheet in the networking guide to configure your cluster for use.

Other languages

You can access localized versions of this and other documents at https://dell.com/support.

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Scan the following QR code for troubleshooting, How-To information and setup videos.