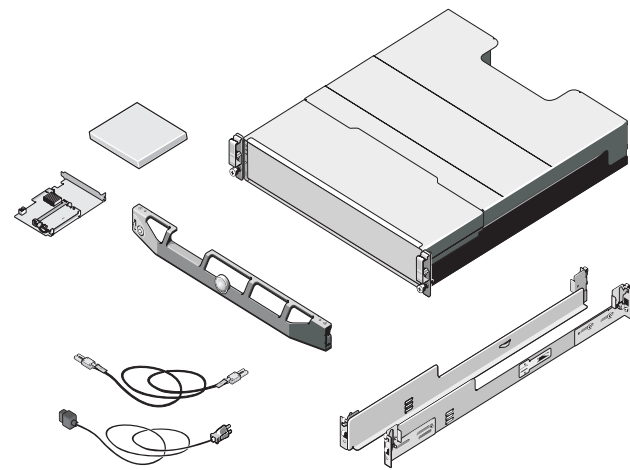# Setting Up Your Dell™ PowerVault™ Storage Enclosure

⚠ WARNING: Before you set up and operate your Dell PowerVault system, review the safety instructions that came with your system.
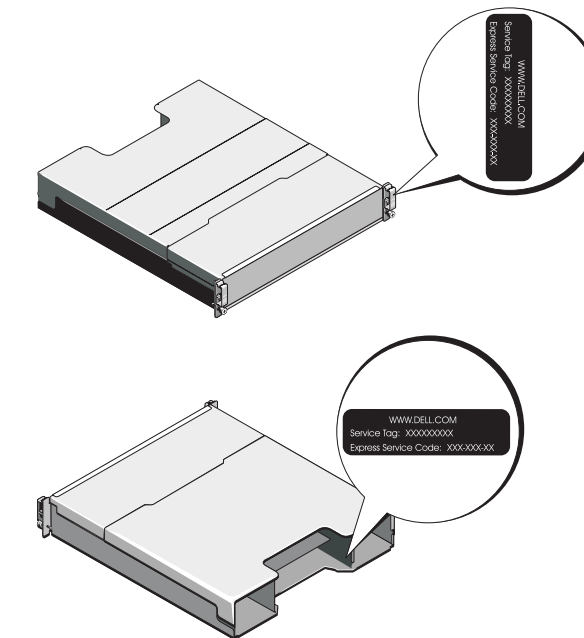
Verify Package Contents

- Storage enclosure
- SAS cables (2)
- Power cables (2)
- Bezel (optional)
- Mounting rails (2) (optional)
- RAID controller card (optional)
- User documentation

Install the Enclosure in a Rack

The enclosure requires a properly grounded electrical outlet, a compatible rack, and a rack installation kit.

For information about installing the rails, see the *Rack Installation Instructions* that shipped with your rail kit.

Locating Your System Service Tag

- Your system is identified by a unique Express Service Code and Service Tag number. The Express Service Code and Service Tag are found on the front of the enclosure.
- The Service Tag is also located at the back of the system next to the enclosure management modules.
- This information is used by Dell to route support calls to the appropriate personnel.

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1 | Before You Begin

Check for documentation and information updates on **support.dell.com/manuals**.

Always read the updates first because they often supersede information in other documents.

Cabling Your Enclosure for Unified or Split Mode Configuration

You can cable your enclosure in either a unified-mode configuration or in a split-mode configuration.

- In a unified-mode configuration, your enclosure is connected to one host; for example, a server with a controller card. Your enclosure can be one of up to four enclosures daisy-chained to a single port on the controller card in your host server. The enclosure can also be connected in a redundant path mode with two connections to a single host server.

- In a split-mode configuration, your enclosure is connected to two separate controller cards. The controller cards may reside in the same server or in two different servers. The enclosure bus is logically split in half where the first half of the enclosure is managed by one controller and the second half of the enclosure is managed by the second controller .

The table below lists the drives that are controlled by each enclosure management module (EMM) in a split-mode configuration.

Enclosure	EMM 0	EMM 1
Dell PowerVault MD1200	Drives 6 to 11	Drives 0 to 5
Dell PowerVault MD1220	Drives 12 to 23	Drives 0 to 11

NOTE: Split-mode configurations do not support daisy-chaining of enclosures and redundant paths.

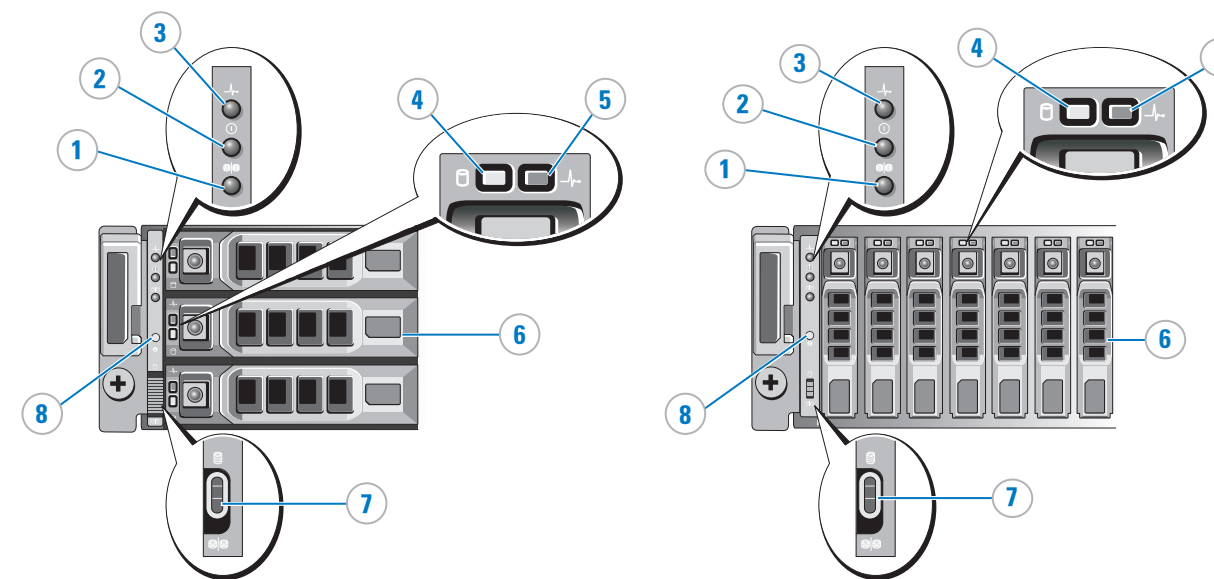The operating mode is selected using the enclosure mode switch on the front panel of the enclosure.

NOTE: The enclosure mode switch must be set to either unified mode or split mode before the enclosure is turned on. Changing the configuration mode after turning on the enclosure has no effect on the enclosure configuration until the enclosure is rebooted.

For examples of supported cable configurations, see "Cabling the Enclosures to the Host Server(s)" below.
For more information about cabling your enclsoure, see the *Dell™ PowerVault™ MD1200 and MD1220 Storage Enclosures Hardware Owner's Manual* at **support.dell.com/manuals**.

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2 | Selecting the Operating Mode
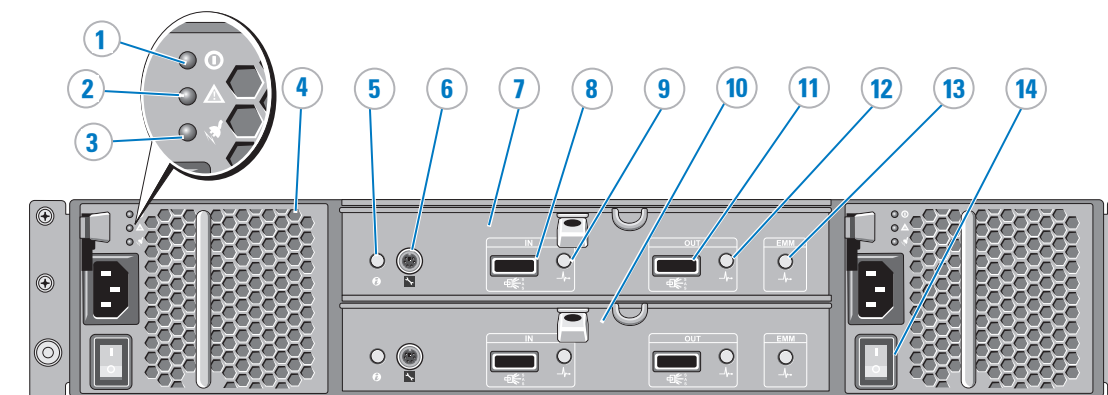
Front-Panel Features

Dell PowerVault MD1200   Dell PowerVault MD1220

1. Split mode LED
2. Power LED
3. Enclosure status LED
4. Hard-drive activity indicator
5. Hard-drive status indicator
6. Hard drives
7. Enclosure-mode switch
8. System identification button
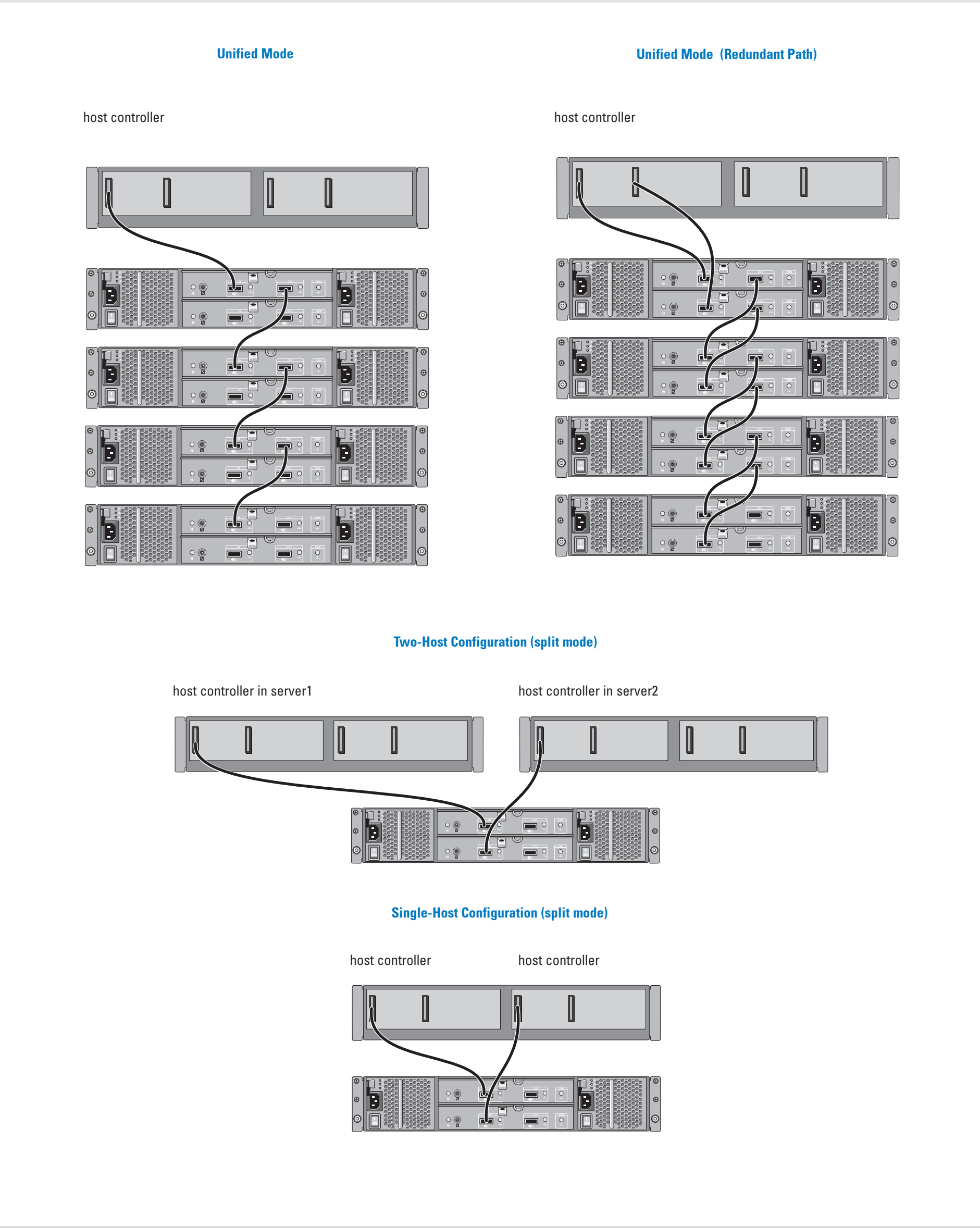
Back-Panel Features

1. DC power LED
2. Power supply/cooling fan fault LED
3. AC power LED
4. Power supply/cooling fan module 1
5. System identification indicator
6. Debug port
7. Enclosure Management Module 1
8. SAS port (In)
9. In port link status LED
10. Enclosure Management Module 0
11. SAS port (Out)
12. Out port link status LED
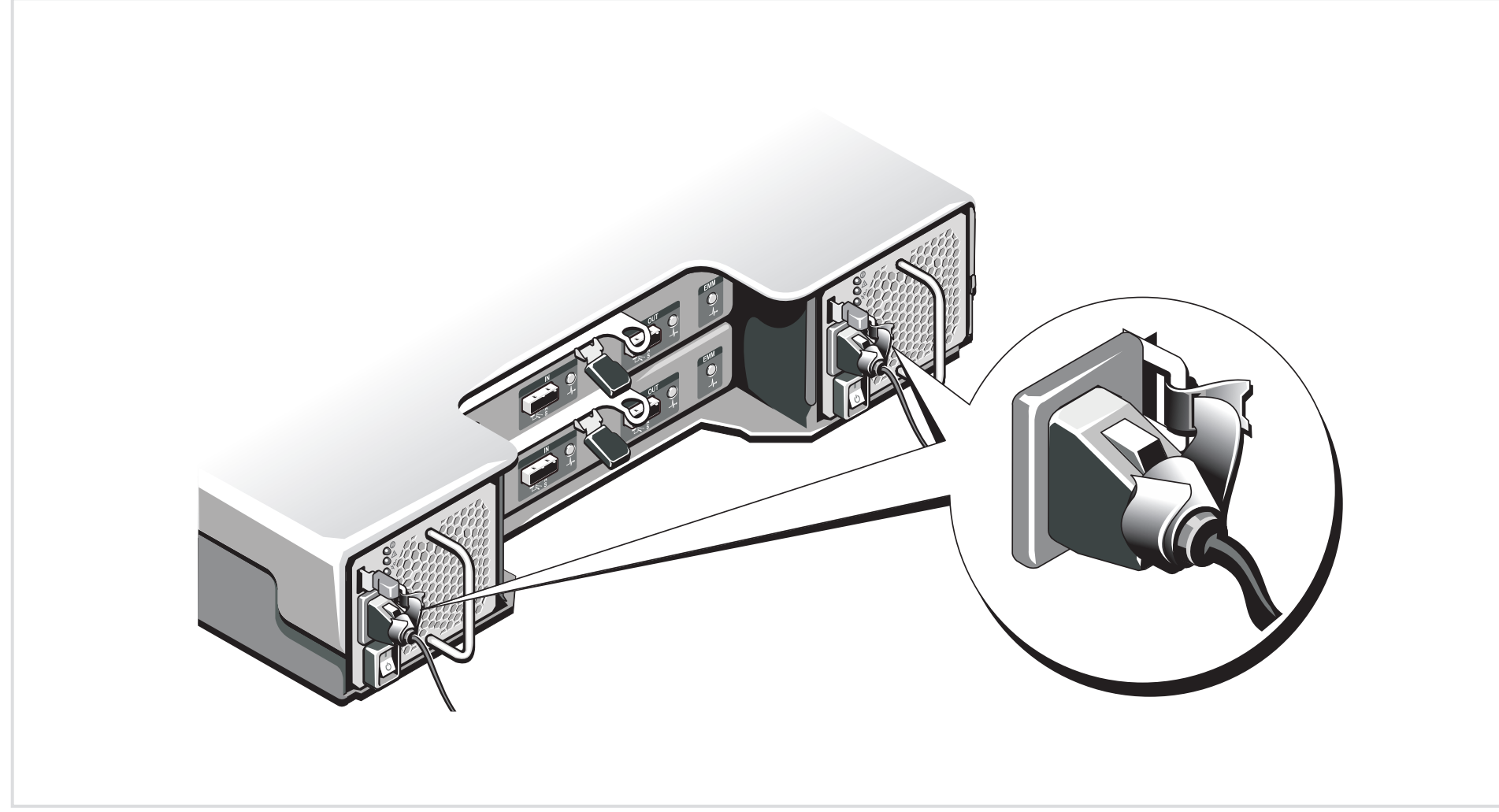13. EMM status LED
14. Power switches (2)

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3 | Identifying Ports and Connectors on Your Enclosure

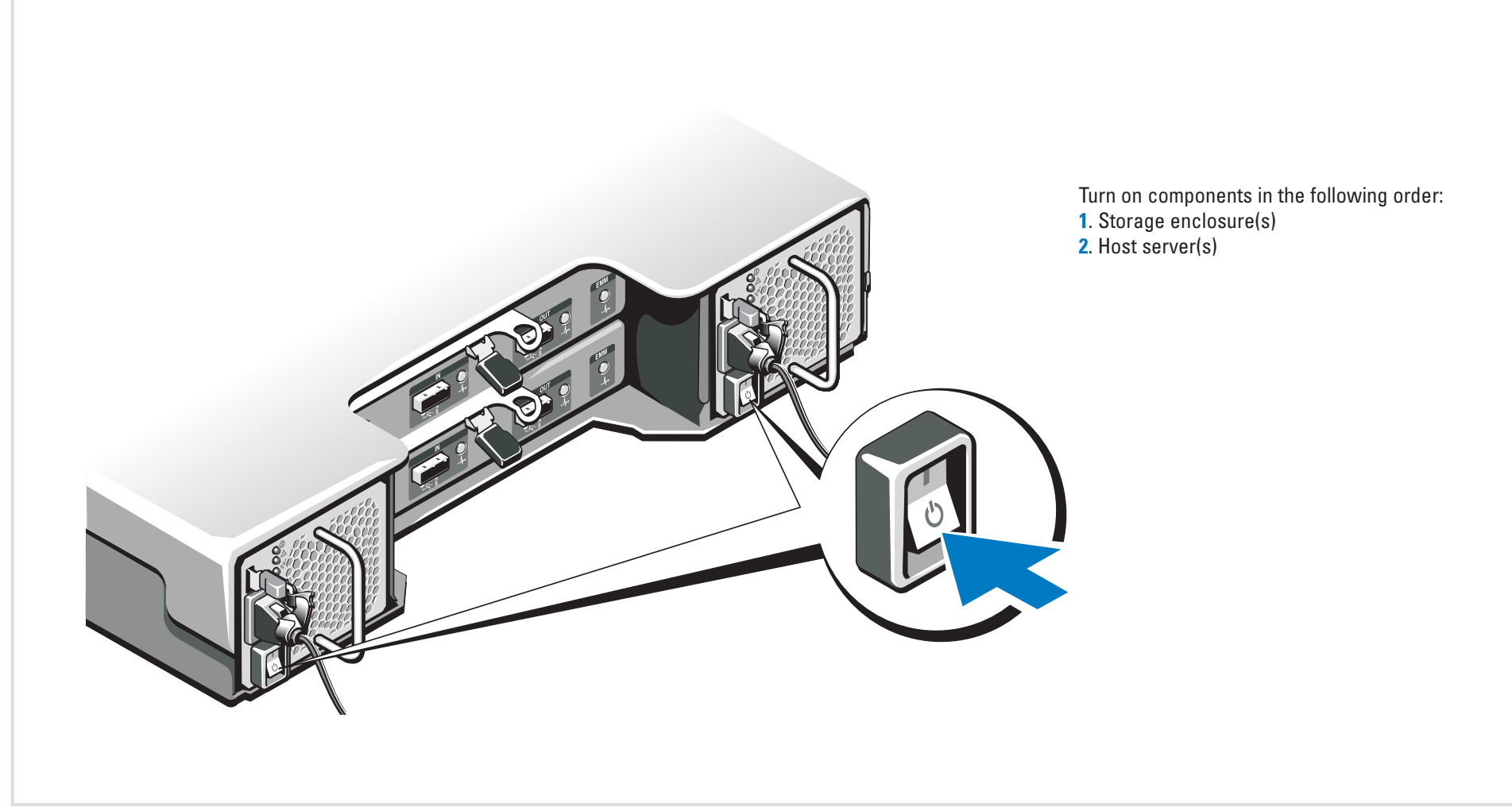# Setting Up Your Dell™ PowerVault™ Storage Enclosure *(continued)*

Unified Mode

host controller

Unified Mode (Redundant Path)

host controller

Two-Host Configuration (split mode)

host controller in server1

host controller in server2

Single-Host Configuration (split mode)

host controller   host controller

5 | Connecting and Securing the Power Cable(s)

Turn on components in the following order:
1. Storage enclosure(s)
2. Host server(s)

4 | Cabling the Enclosures to the Host Server(s)

6 | Turning on the Enclosure