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Question 1

Question Type: MultipleChoice

When looking at the base enclosure front view, what does a solid amber drive LED indicate?

Options:

- A- Faulted drive
- B- Normal activity
- C- Rebuild activity
- D- Discover new drive

Answer:

A

Explanation:

When observing the base enclosure front view of a Dell PowerStore system, a solid amber drive LED is an indication of a faulted drive. This LED status is used to alert the storage administrator that there is a fault within the drive that requires attention¹².

The LED states for the Dell PowerStore base enclosure are as follows:

Blue: Power is on, and no fault has occurred.

Solid Amber: Power is on, and a fault has occurred within the enclosure.

Blue after Amber Alternating: Power is on, but the system is not initialized.

Off: Power is off.

In the event of a solid amber LED, the recommended steps are:

Identify the faulted drive: Look for the drive with the solid amber LED.

Check the PowerStore Manager: Use the PowerStore Manager to identify the specific error or fault code associated with the drive.

Follow the troubleshooting steps: Refer to the Dell PowerStore Troubleshooting Guide for detailed steps on resolving the issue with the faulted drive.

Replace the drive if necessary: If the drive is determined to be faulty and cannot be recovered, follow the Dell PowerStore Hardware Information Guide for instructions on safely replacing the drive.

[For more detailed information and guidance, refer to the official Dell PowerStore documentation, such as the PowerStore Hardware Information Guide and the PowerStore Troubleshooting Guide, or contact Dell support directly](#)

Question 2

Question Type: MultipleChoice

Which account credentials are needed to run diagnostic commands?

Options:

- A- console
- B- service
- C- root
- D- admin

Answer:

B

Explanation:

The account credentials needed to run diagnostic commands on Dell PowerStore Maintenance are for the service account.

[The service account is specifically designed for performing specialized service functions, including running diagnostic commands1.](#)

To run service commands, you would typically:

Enable SSH in PowerStore Manager under Settings.

Use an SSH client to connect to the management IP.

Log in using the username and password for the service account².

The service account has the necessary permissions to execute service scripts and commands that are used for diagnostics and troubleshooting³.

It is important to note that the service account password should be changed from the default during the initial configuration of the appliance for security purposes¹.

For more detailed information on using the service account for diagnostics and other service tasks, refer to the Dell PowerStore Service Scripts Guide or contact Dell Support.

Question 3

Question Type: MultipleChoice

What describes the SAS cabling when adding an expansion enclosure to a Dell EMC PowerStore, for each node and expansion enclosure side?

Options:

A- SAS cabling goes from existing B ports to new A ports.

At the last enclosure, SAS cabling returns from the B ports to the alternate node's A ports.

B- SAS cabling goes from existing A ports to new B ports.

At the last enclosure, SAS cabling returns from the A ports to the originating node's B ports.

C- SAS cabling goes from existing B ports to new A ports.

At the last enclosure, SAS cabling returns from the B ports to the originating node's A ports.

D- SAS cabling goes from existing A ports to new B ports.

At the last enclosure, SAS cabling returns from the A ports to the alternate node's B ports.

Answer:

D

Explanation:

The correct description of the SAS cabling when adding an expansion enclosure to a Dell EMC PowerStore, for each node and expansion enclosure side, is Option D: SAS cabling goes from existing A ports to new B ports. At the last enclosure, SAS cabling returns from the A ports to the alternate node's B ports.

When adding a SAS expansion enclosure to a Dell EMC PowerStore system, the cabling must be done in a specific manner to ensure proper connectivity and performance.

The SAS cabling should start from the existing A ports on the base enclosure and connect to the new B ports on the expansion enclosure1.

At the last expansion enclosure in the chain, the SAS cabling should return from the A ports back to the B ports on the alternate node1.

This cabling method ensures that each node is connected to each expansion enclosure and that the enclosures are daisy-chained correctly for optimal performance and redundancy1.

For detailed cabling instructions and diagrams, it is recommended to consult the Dell PowerStore Installation and Service Guide or contact Dell EMC support for assistance.

Question 4

Question Type: MultipleChoice

A Storage Administrator has an existing single appliance Dell EMC PowerStore 3000T cluster. An additional PowerStore 9000T has been purchased to add into the existing cluster.

How does the administrator proceed?

Options:

- A-** Add the new 9000T appliance into the cluster per the procedure; mixed models of the same type are supported
- B-** Additional VLT links on the ToR switching must be configured for the 9000T to support the increased inter-switch network load
- C-** The new appliance cannot be added to the cluster; appliance model and type must match when clustering appliances together
- D-** Remove two of the four NVMe NVRAM drives from the 9000T; the caching configuration of all clustered appliances must match

Answer:

A

Explanation:

The correct procedure for a Storage Administrator to add a new PowerStore 9000T appliance into an existing single appliance Dell EMC PowerStore 3000T cluster is to add the new 9000T appliance into the cluster per the procedure; mixed models of the same type are supported.

Dell PowerStore allows for the addition of appliances to an existing cluster, enabling both scaling up and scaling out.

When adding a new appliance to an existing cluster, it is important to ensure that the appliance is uninitialized and that both the new appliance and the existing cluster are in a healthy state¹.

The process of adding an appliance is facilitated through the PowerStore Manager. The administrator should navigate to the Hardware page and click the Add button to present the available unconfigured appliances that can be added¹.

It is not necessary to configure additional VLT links on the ToR switching specifically for the 9000T to support the increased inter-switch network load as part of the initial addition process¹.

There is no requirement that the appliance model and type must match when clustering appliances together, allowing for mixed models of the same type within a cluster1.

Removing NVMe NVRAM drives from the 9000T is not a standard procedure for clustering and is not required for the caching configuration of all clustered appliances to match1.

For detailed procedures on adding appliances to a Dell EMC PowerStore cluster, it is recommended to refer to the official Dell PowerStore Clustering and High Availability documentation or contact Dell EMC support for guidance.

Question 5

Question Type: MultipleChoice

What does the output of the command "svc_diag list -- basic" show?

Options:

- A- Failover status
- B- Service tag
- C- Boot mode

D- License status

Answer:

B

Explanation:

The output of the command "svc_diag list -- basic" on a Dell PowerStore system typically shows service tag information.

The "svc_diag" command is part of the service scripts provided by Dell for diagnostic purposes on PowerStore systems.

The "list" option with the "--basic" flag is used to display a list of basic system information, which usually includes the service tag, among other details.

The service tag is a unique identifier for Dell products that is used for various purposes, including support and maintenance.

While the exact output of the command can vary based on the software version and specific system configuration, the service tag is a common piece of information displayed by such diagnostic commands¹.

For the most accurate and up-to-date information about the "svc_diag list -- basic" command and its output, it is recommended to consult the Dell PowerStore Service Scripts Guide or contact Dell Support directly.

Question 6

Question Type: MultipleChoice

A Storage Administrator needs to connect through SSH to run svc commands. How is the SSH session configured?

Options:

- A- NAS server IP address using port 22
- B- Appliance IP address using port 26
- C- NAS server IP address using port 26
- D- Appliance IP address using port 22

Answer:

D

Explanation:

The SSH session for a Storage Administrator to run svc commands on a Dell EMC PowerStore system is configured using the Appliance IP address using port 22.

To connect to the service console over SSH, the Storage Administrator should use the appliance IP address.

The default SSH port for accessing the service console is port 221.

SSH access to the nodes may be required for troubleshooting and is not enabled by default. To enable SSH access:

Navigate to Settings.

Select SSH Management from the Security section.

Choose the appliance or appliances on which to enable SSH.

Click [ENABLE SSH1](#).

The service user account is used for SSH login, and the password is set during the Initial Configuration Wizard (ICW) or can be reset from the PowerStore Manager user interface1.

It's important to note that the SSH port used to log in to the service container is port 22 after the cluster creation is completed. Before the ICW is run, port 26 may be used1.

For detailed instructions on how to connect to the service console over SSH, please refer to the official Dell documentation or contact Dell Support for assistance.

Question 7

Question Type: MultipleChoice

Which type of device is supported in expansion enclosures?

Options:

- A- NVMe SCM
- B- SAS SSD
- C- NVMe NVRAM
- D- NVMe SSD

Answer:

D

Explanation:

The type of device supported in expansion enclosures for Dell PowerStore systems is NVMe SSD.

Starting with PowerStoreOS 3.0, the PowerStore models 500, 1200, 3200, 5200, and 9200 support 24-drive 2U NVMe expansion enclosures using 2.5-inch NVMe SSD drives for additional capacity¹.

The NVMe expansion enclosures do not support NVMe SCM drives¹.

The base enclosure can support all NVMe SSDs or a mix of NVMe SSDs and NVMe SCM drives (for the metadata tier) with an NVMe expansion enclosure attached¹.

Before attaching an NVMe expansion enclosure, all drive slots 0 to 21 in the base enclosure must be populated¹.

Each appliance in a PowerStore cluster supports up to three NVMe expansion enclosures¹.

For more detailed information on the supported devices in expansion enclosures for Dell PowerStore systems, you can refer to the Dell PowerStore: Technical Primer¹.

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