# Free Questions for D-PST-MN-A-24

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# Question 1

Question Type: MultipleChoice

Which LED combination shows a connected and working node?

## Options:

A- power LED: blinking green fault LED: blue
B- power LED: blinking green fault LED: off
C- power LED: steady green fault LED: off
D- power LED: steady green fault LED: amber

## Answer:

C

## Explanation:

The LED combination that shows a connected and working node is power LED: steady green fault LED: off.

The power LED on a Dell EMC PowerStore node indicates the power status of the node.

A steady green power LED typically signifies that the node is powered on and operating normally1.

The absence of the fault LED being lit (fault LED: off) indicates that there are no current faults detected with the node1.

This combination of a steady green power LED and no fault LED is the normal operating state for a node and suggests that it is connected and functioning properly1.

For more detailed information on the LED states and what they represent, you can refer to the Dell PowerStore Hardware Information Guide or the Dell Support Knowledge Base1.

# Question 2

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 3

Question Type: MultipleChoice

What safety equipment is critical to have on hand to avoid equipment failure before replacing any components in a Dell EMC PowerStore array?

## Options:

A- Stabilization Kit
B- Rail Kit
C- Maintenance Kit
D- ESD Kit

## Answer:

D

## Explanation:

When replacing any components in a Dell EMC PowerStore array, it is critical to have an Electrostatic Discharge (ESD) Kit on hand to avoid equipment failure. The ESD Kit typically includes tools like wristbands and gloves that help prevent static electricity from damaging the electronic components during the replacement process.

Before beginning any maintenance work on the PowerStore array, it is essential to:

Use the ESD wristband by attaching one end to your wrist and connecting the other end to a grounded object.

Wear ESD gloves to handle sensitive components.

Ensure that the work area is free from static-prone materials and conditions.

Follow the detailed safety precautions and procedures outlined in the PowerStore Installation and Service Guide1.

Using an ESD Kit is a standard safety practice in the maintenance of electronic equipment, as static electricity can cause irreparable damage to sensitive components. The Dell PowerStore Installation and Service Guide provides comprehensive safety instructions, including the use of ESD protection, to ensure the safe handling of replaceable units2.

# Question 4

Question Type: MultipleChoice

Refer to the exhibit.

What is indicated when the circled LED on the base enclosure is illuminated amber?

## Options:

A- Base enclosure power-on
B- Cluster discovery state
C- Base enclosure fault
D- Cluster service mode

## Answer:

C

## Explanation:

When the circled LED on the base enclosure of a Dell PowerStore system is illuminated amber, it typically indicates a fault within the base enclosure. This could be related to various issues such as power supply problems, cooling system malfunctions, or other operational faults that may affect the enclosure's performance.

In Dell PowerStore systems, LED indicators are used to communicate the status of the system's hardware components. An amber LED specifically suggests that there is a problem that needs to be addressed. The steps to investigate and resolve the issue usually include:

Checking the PowerStore Manager for alerts or messages that provide more details about the fault.

Inspecting the physical hardware to identify any visible signs of damage or failure.

Consulting the Dell PowerStore Hardware Guide for information on LED indicators and their meanings.

Following the recommended actions provided in the guide, which may include checking power

connections, ensuring proper airflow, or other hardware checks.

If necessary, contacting Dell Support for further assistance, providing them with the details of the fault LED and any other relevant information observed.

It's important to address any faults indicated by an amber LED promptly to maintain the integrity and reliability of the storage system. The Dell PowerStore documentation provides comprehensive information on LED indicators and troubleshooting steps to help resolve such issues effectively.

# Question 5

Question Type: MultipleChoice

Which network is used for intra-cluster management?

## Options:

A- Service network
B- Storage network
C- NAS network
D- Internal network

## Answer:

D

## Explanation:

For intra-cluster management within Dell EMC PowerStore systems, the internal network is used. This network is specifically named the Intra-Cluster Management (ICM) and Intra-Cluster Data (ICD) networks. Each node in a PowerStore cluster communicates with other nodes through bonded ports that are part of this internal network12.

The ICM and ICD networks are crucial for the cluster's operation as they allow for the management and coordination of data across the cluster. In multi-appliance PowerStore clusters, these networks communicate through the top-of-rack switch network with untagged VLAN network packets that have auto-generated IPv6 addresses. For single-appliance clusters, starting in PowerStoreOS 1.0.2, the ICM network communicates through the backplane within the appliance instead of through the top-of-rack switch2.

In summary, the internal network is essential for the functioning of a PowerStore cluster as it

facilitates the necessary communication between nodes for management and data operations. This design ensures high availability and efficient management of the storage system.

# Question 6

Question Type: MultipleChoice

What is a step in configuring the ToR data switches for a Dell EMC PowerStore T?

## Options:

A- Configure a port for the discovery laptop
B- Create VLAN for vMotion networks
C- Configure ports for management on native VLAN
D- Create VLANs for NAS server networks

## Answer:

A

## Explanation:

Configuring the Top of Rack (ToR) data switches for a Dell EMC PowerStore T involves several steps to ensure proper network setup and connectivity. One of the essential steps is to configure a port for the discovery laptop. This step is necessary for the initial discovery and configuration of the PowerStore appliances.

The process typically includes:

Identifying an unused port on the ToR switch that will be dedicated to the discovery laptop.

Configuring the identified port with the appropriate VLAN settings that match the network design of the PowerStore environment.

Ensuring that the port has the correct speed and duplex settings to communicate effectively with the discovery laptop.

Connecting the discovery laptop to the configured port to begin the discovery process of the PowerStore appliances.

This step is crucial as the discovery laptop is used to run the PowerStore Discovery Utility, which helps in identifying PowerStore appliances on the network and assists with the initial configuration1. For detailed instructions on configuring ToR switches and other networking

components for PowerStore T, refer to the Dell PowerStore Networking Guide for PowerStore T Models2.

# Question 7

Question Type: MultipleChoice

What describes Dell EMC PowerStore X front-end cabling?

## Options:

A- Uses internal VMware virtual switching and does not require a management network
B- Management and discovery use the same cables and connections as storage
C- Storage and management use the same LACP bonded cable connection
D- Uses VLTi data switch interconnectivity to support vMotion networks

## Answer:

B

## Explanation:

The Dell EMC PowerStore X series supports Ethernet connectivity through ports on the embedded module, and on optional I/O modules1. This design allows for management and discovery to use the same cables and connections as storage. The PowerStore X models support front-end NVMe connectivity with NVMe over Fibre Channel and NVMe over TCP, providing a complete end-to-end NVMe solution2.

For the PowerStore X, the management network is integrated with the storage network, which simplifies the cabling requirements and reduces the number of separate networks that need to be maintained. This integration is particularly beneficial in VMware environments where the PowerStore X can leverage internal VMware virtual switching, which further streamlines the network infrastructure1.

In summary, the front-end cabling of the Dell EMC PowerStore X is designed to consolidate management and storage networking, which simplifies the overall network design and reduces the complexity of cable management. This approach is aligned with best practices for storage connectivity and ensures efficient use of network resources3.

# Question 8

Question Type: MultipleChoice

How is a defective embedded module displayed in Dell EMC PowerStore Manager?

## Options:

A- Blue with a faulted state
B- Orange with a faulted state
C- Orange with an empty state
D- Blue with an empty state

## Answer:

B

## Explanation:

In Dell EMC PowerStore Manager, a defective embedded module is displayed as orange with a faulted state. This color coding is used to indicate that there is a fault with the embedded module. The PowerStore Manager provides a visual representation of the system's health and status, and the color orange is typically associated with a warning or an issue that needs attention.

The procedure for identifying and replacing a faulted embedded module involves using the PowerStore Manager to locate the faulted component. Once identified, the module displays an orange LED to indicate its faulted state. This is part of the system's design to help administrators quickly and easily identify components that require attention1.

For detailed instructions on replacing a faulted embedded module or understanding the LED states for troubleshooting, you can refer to the PowerStore documentation provided by Dell, which includes comprehensive guides on handling such scenarios2.

# Question 9

Question Type: MultipleChoice

What is the maximum number of base enclosures in a cluster when planning a Dell EMC PowerStore T installation?

## Options:

A- 3
B- 1
C- 4
D- 2

## Answer:

C

## Explanation:

The maximum number of base enclosures in a cluster for a Dell EMC PowerStore T installation is 4.

When planning the installation of a Dell EMC PowerStore T cluster, it is important to consider the scalability of the system.

The PowerStore T series allows for clustering of multiple appliances to increase capacity and performance.

According to the Dell PowerStore: Clustering and High Availability document, there is a minimum of one PowerStore appliance and a maximum of four PowerStore appliances that can be configured in the cluster1.

This means that for a PowerStore T installation, you can start with a single appliance and scale up to a total of four appliances in a cluster as needed1.

For detailed information on clustering and high availability features of the Dell EMC PowerStore T series, you can refer to the official Dell documentation1.