

Exam D-PWF-OE-00 Study Solutions - D-PWF-OE-00 Test Quiz



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EMC D-PWF-OE-00 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none">Expanding a PowerFlex Cluster: This domain focuses on cluster expansion and maintenance including using maintenance modes, adding nodes, configuring Storage Data Servers and Meta Data Managers, and understanding PowerFlex integration with APEX.
Topic 2	<ul style="list-style-type: none">PowerFlex Upgrades: This domain covers understanding upgrade procedures and executing cluster upgrades to newer software versions.
Topic 3	<ul style="list-style-type: none">PowerFlex Security: This section addresses security administration through managing user accounts and access privileges, integrating CloudLink for encryption, and configuring system alerting.

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study materials in the market.

EMC Dell PowerFlex Operate Exam Sample Questions (Q35-Q40):

NEW QUESTION # 35

Which logical entity is used to group Storage Data Server (SDS) nodes for fault isolation and resource management?

- **A. Protection Domains**
- B. Fault Sets
- C. Resource Groups
- D. Storage Pools

Answer: A

Explanation:

The Protection Domain (PD) is the highest level of logical aggregation for storage nodes in PowerFlex.

* Fault Isolation: The Protection Domain acts as a "walled garden" for failures. If a catastrophic failure occurs (e.g., a power outage affecting a specific rack), the impact is contained within that Protection Domain. Data replication and rebuilding occur within the boundaries of the PD. An SDS in Protection Domain 1 cannot mirror data to an SDS in Protection Domain 2.

* Resource Management: Administrators manage resources at the PD level to balance the cluster. For example, a cluster might have one Protection Domain for "High Performance Flash" nodes and another PD for "High Capacity HDD" nodes.

* Differentiation:

* Storage Pools exist inside a Protection Domain to group disks.

* Fault Sets exist inside a Protection Domain to further granularize failure zones (e.g., preventing mirroring between nodes in the same rack).

NEW QUESTION # 36

Which task is a valid operation for manipulating volumes in PowerFlex?

- A. Configure VLAN tagging for the volume
- **B. Create snapshots of the volume**
- C. Add volumes to metadata managers
- D. Assign volumes to fault sets

Answer: B

Explanation:

Administrators perform various operations on Volumes to manage data lifecycles.

* Create snapshots of the volume (Option B): This is a standard Day-2 operation. A user can select a volume and trigger a snapshot (or a consistency group snapshot). This creates a point-in-time, writable copy of the volume instantly.

* Why others are incorrect:

* Fault Sets (A): Volumes are not assigned to Fault Sets. SDS nodes are assigned to Fault Sets.

Volumes live in Storage Pools.

* VLAN tagging (C): VLANs are configured on the SDC (client) network interfaces or the switch, not on the storage volume itself.

* Add to MDM (D): The MDM manages the volume map, but you do not manually "add" a volume to an MDM; you create a volume via the MDM.

NEW QUESTION # 37

What steps are required to configure a Storage Pool? (Choose two).

- **A. Define the Protection Domain**
- B. Configure VLAN tagging for the Storage Pool
- C. Enable replication between clusters
- **D. Assign drives with similar performance characteristics**

Answer: A,D

Explanation:

A Storage Pool is a logical entity that aggregates the capacity of physical devices.

* Define the Protection Domain (Option A): The Storage Pool hierarchy is strict. You must first create a Protection Domain (PD), which groups the SDS nodes. The Storage Pool is then created within that Protection Domain. You cannot create a Storage Pool without this parent container.

* Assign drives with similar performance characteristics (Option B): This is a critical configuration requirement. PowerFlex stripes data across all drives in a pool. If you mix NVMe and SATA drives in the same pool, the fast NVMe drives will wait for the slow SATA drives, dragging the entire pool's performance down to the lowest common denominator (the "straggler" effect). Therefore, standard procedure is to create separate pools for separate media types (e.g., "Performance_Pool" for NVMe, "Capacity_Pool" for HDD).

NEW QUESTION # 38

Which operations are supported for managing snapshots in PowerFlex? (Choose two).

- A. Schedule automatic snapshot creation
- B. Restore data from a snapshot
- C. Convert snapshots to writable volumes
- D. Deduplicate snapshot data

Answer: A,B

Explanation:

PowerFlex offers robust snapshot management capabilities accessible via the PowerFlex Manager UI, CLI (SCLI), and REST API.

* Schedule automatic snapshot creation (Option D): PowerFlex supports Snapshot Policies.

Administrators can define policies that automatically generate snapshots at specific intervals (e.g., every hour, daily, or weekly) and define retention rules (how many snapshots to keep). This automation is critical for meeting Recovery Point Objectives (RPO) without manual intervention.

* Restore data from a snapshot (Option A): PowerFlex allows administrators to restore a volume to a previous state using a snapshot. In the CLI, this is often handled by the command `overwrite_volume_content`, where the content of the production volume is replaced by the data in the snapshot. This is essential for recovering from data corruption or ransomware events.

Why not B? In PowerFlex, snapshots are already writable volumes by default immediately upon creation.

There is no need to "convert" them; they can be mapped to a host and written to instantly.

Why not C? Deduplication is a property of the Storage Pool (specifically in Fine Granularity pools), not a specific operation triggered on a snapshot.

NEW QUESTION # 39

While setting up a PowerFlex cluster, an administrator needs to create a Storage Pool. What tasks must they complete first?

- A. Configure a Protection Domain
- B. Enable Fault Sets for redundancy
- C. Validate VLAN configurations
- D. Assign drives with consistent performance metrics

Answer: A

Explanation:

This question tests your knowledge of the logical hierarchy in PowerFlex:

System \rightarrow Protection Domain \rightarrow Storage Pool \rightarrow Device (Disk) \rightarrow Volume.

* Configure a Protection Domain (Option A): You cannot create a Storage Pool without a parent entity. The Protection Domain (PD) is the container that isolates a specific group of nodes. Once the PD is created, you create a Storage Pool inside it.

* The Workflow:

* Install SDS software on nodes.

* Create a Protection Domain (e.g., PD_1).

* Add SDS nodes to PD_1.

* Create a Storage Pool (e.g., Pool_SSD) inside PD_1.

* Add devices (drives) to Pool_SSD.

Options B and C are important validation steps, but A is the mandatory structural prerequisite.

NEW QUESTION # 40

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