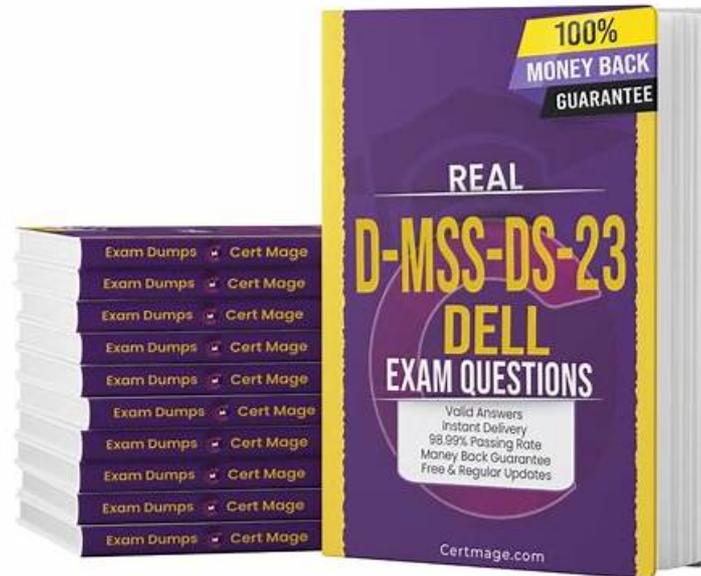# Useful and reliable D-MSS-DS-23 training dumps & high-quality EMC D-MSS-DS-23 training material

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EMC D-MSS-DS-23 Exam Syllabus Topics:

Topic	Details

Topic 1	• Midrange Storage Solutions Best Practice: This section of the exam measures the skills of Dell Unity and PowerStore Midrange Storage Solutions professionals and covers best practice recommendations for system configuration and upgrades. It includes guidelines on hardware capacity, deployment models, clustering, and operating system upgrades. A key skill assessed is implementing effective backend connectivity solutions that enhance system performance.
Topic 2	• Dell Midrange Sizing Solutions: This section of the exam measures the skills of storage engineers and covers the use of tools like the Midrange Sizer for Unity to size solutions effectively. It includes design methods and deliverables associated with sizing storage solutions.
Topic 3	• Dell Midrange Storage Solutions Planning, Sizing, and Design: This section of the exam measures the skills of storage engineers and covers the planning, sizing, and design phases of a Midrange solution sales engagement. It emphasizes conducting site evaluations and remediation processes while considering performance parameters and environmental limits. A critical skill evaluated is accurately characterizing workloads to inform design decisions.

EMC Dell Midrange Storage Solutions Design 2023 Sample Questions (Q39-Q44):

NEW QUESTION # 39
What is a Dell recommendation when connecting ESXi hosts to PowerStore?

- A. Configure Round Robin Multipathing with an IOPS limit of 1024.
- B. Enable DelayedACK when configured using iSCSI.
- C. Use the default 8k host I/O size when using NFS.
- D. Configure a minimum of two NAS servers when using vVol Datastores.

Answer: A

Explanation:
Connecting ESXi Hosts to PowerStore:
When connecting ESXi hosts to PowerStore, it is crucial to follow best practices to ensure optimal performance and reliability.
Round Robin Multipathing:
Dell recommends configuring Round Robin Multipathing with an IOPS limit of 1024. This setting helps balance the load across multiple paths, preventing any single path from becoming a bottleneck and improving overall performance.

NEW QUESTION # 40
What result is obtained by multiplying the VM count by the Capacity per VM in a PowerStore system?

- A. Raw Capacity
- B. Usable Capacity
- C. Effective Capacity

Answer: C

Explanation:
Understanding the Calculation Context:In PowerStore, capacity planning for virtualized environments involves forecasting storage requirements based on VM deployments. The formula VM count × Capacity per VM is specifically used to model projected storage consumption before applying efficiency factors.
PowerStore's Capacity Terminology:
Raw Capacity: The total physical capacity of installed drives before accounting for RAID overhead, system metadata, or formatting.
Usable Capacity: The available storage after subtracting RAID overhead, system partitions, and metadata.
Represents the logical space presented to the user before data reduction.
Effective Capacity: The logical storage capacity available to applications after accounting for data reduction technologies (deduplication, compression), thin provisioning, and system efficiency. It represents the "logical" data stored per physical byte.
Why "VM count × Capacity per VM" Equals Effective Capacity:
Capacity per VM typically refers to the provisioned (logical) storage allocated to each VM (e.g., a 500GB virtual disk).

Multiplying this by the VM count gives the total logical capacity required by all VMs.

PowerStore uses this product to calculate the "Effective Capacity" requirement. This is the logical capacity the system must support after data reduction efficiencies are applied. It represents the total amount of data the VMs will logically store, which the physical storage (Usable/Raw Capacity) must ultimately hold after deduplication/compression.

Official Dell PowerStore Documentation:The Dell PowerStore: Deployment Planning and Best Practices Guide explicitly defines this calculation:

"Effective Capacity is calculated as: Number of VMs × Average Capacity per VM." (Source: Dell PowerStore Deployment Planning and Best Practices Guide, Section: Sizing Considerations for Virtualized Environments) This guide further clarifies that Effective Capacity is the key metric for sizing PowerStore systems in virtualized scenarios, as it represents the logical workload demand the system must satisfy, leveraging its data reduction capabilities to fit onto the physical Usable Capacity.

Conclusion:

Multiplying VM count by Capacity per VM directly yields the Effective Capacity requirement. This represents the logical storage demand placed on the PowerStore system. The physical Usable Capacity must be sufficient to hold this Effective Capacity after data reduction savings are applied. Raw Capacity is unrelated to VM provisioning calculations.

Key References:

Dell PowerStore: Deployment Planning and Best Practices Guide (Current Version) - Definitive source linking VM count × Capacity per VM to Effective Capacity.

Dell PowerStore: Introduction Guide - Explains core concepts of Raw, Usable, and Effective Capacity.

NEW QUESTION # 41

What can be done to provide best performance on Dell Unity iSCSI connections?

- A. Configure Jumbo frames end-to-end.
- B. Utilize FSN on hosts.
- C. Configure Flow control on all ports.
- D. Configure LACP on all connections.

Answer: A

Explanation:

To provide the best performance on Dell Unity iSCSI connections, configuring Jumbo frames end- to- end is recommended. Jumbo frames allow for larger packet sizes than the standard 1500 bytes, typically up to 9000 bytes. This reduces the number of packets transmitted, decreases CPU utilization, and improves overall network efficiency. Here's how to configure Jumbo frames:

Switch Configuration: Enable Jumbo frames on all network switches that will handle iSCSI traffic.

Network Interface Configuration: Configure all network interfaces (NICs) on the storage system and the iSCSI hosts to support Jumbo frames.

End-to-End Consistency: Ensure that Jumbo frames are configured consistently across the entire network path from the storage system to the hosts to avoid fragmentation and performance degradation.

NEW QUESTION # 42

Where in PowerSizer can a solution architect find guidance for choosing the appropriate storage solution?

- A. Recent Projects
- B. Support
- C. Quick Size
- D. Sizing and Build Tools

Answer: D

NEW QUESTION # 43

How should Dell Unity XT storage pools be configured to minimize the chance of running out of space due to snapshot utilization?

- A. Set retention to a particular date and time
- B. Set high and low watermarks to remove old snapshots
- C. Change the frequency period on the snapshot schedule
- D. Change the number of days in the local retention policy

Answer: B

Explanation:
Dell Unity XT storage pools can be configured to minimize the chance of running out of space due to snapshot utilization by setting high and low watermarks to remove old snapshots. A high watermark is set to specify the maximum amount of space that can be consumed by snapshots before the oldest snapshots are automatically removed. This is a good way to ensure that snapshots do not consume all available space, and helps to prevent the pool from running out of space.

NEW QUESTION # 44

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