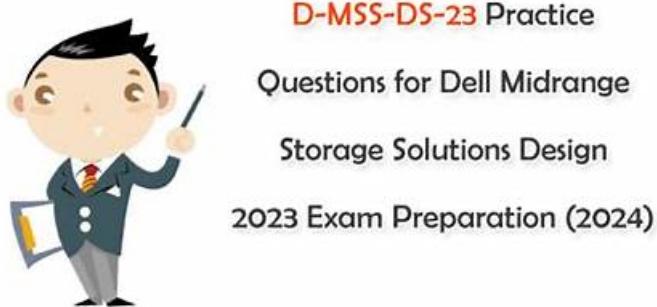


# Valid D-MSS-DS-23 Test Blueprint, New Exam D-MSS-DS-23 Materials



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

| Topic   | Details  |
|---------|--|
| Topic 1 | <ul style="list-style-type: none"><li>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.</li></ul>   |
| Topic 2 | <ul style="list-style-type: none"><li>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.</li></ul> |
| Topic 3 | <ul style="list-style-type: none"><li>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.</li></ul>       |

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## New Exam EMC D-MSS-DS-23 Materials, Valid D-MSS-DS-23 Exam Bootcamp

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## EMC Dell Midrange Storage Solutions Design 2023 Sample Questions (Q19-Q24):

### NEW QUESTION # 19

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

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

**Answer: B**

Explanation:

Understanding the Calculation Context: In PowerStore, capacity planning for virtualized environments involves forecasting storage requirements based on VM deployments. The formula  $VM\ count \times Capacity\ per\ VM$  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 " $VM\ count \times Capacity\ per\ VM$ " 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  $\times$  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  $VM\ count \times Capacity\ per\ VM$  to Effective Capacity.

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

### NEW QUESTION # 20

To which bus is the Dell EMC Unity 880F DPE connected?

- A. 0
- B. **1**
- C. 2
- D. 3

**Answer: B**

Explanation:

The DPE on 480/F, 680/F, and 880/F systems is internally connected to Bus 99 which is a separate bus than the first SAS expansion port that is connected to Bus 0. Therefore, the DPE is recognized by the system as Bus 99 Enclosure 0 while the first DAE connected to the first SAS expansion port would be Bus 0 Enclosure 0.

## NEW QUESTION # 21

Which onboard Dell PowerStore components does the LCC interface sit between?

- A. HDD drives and CPU board
- B. CPU board and NVMe drives
- C. SCM drives and PCIe
- D. SCM drives and SCSI drives

**Answer: B**

Explanation:

The LCC interface sits between the CPU board and the NVMe drives onboard Dell PowerStore components. The LCC interface is responsible for controlling the PCIe links between the CPU board and NVMe drives and allows for communication between the two. It also provides additional features such as error correction and power management for the NVMe drives.

## NEW QUESTION # 22

Which two attributes characterize I/O workloads for sizing the PowerStore storage solution?

(Select  
2)

- A. Extent of Serialization
- B. Splitting of Workloads
- C. CloudIQ Reporting
- D. Random vs. Sequential I/O
- E. Read vs. Write ratios

**Answer: E**

Explanation:

Two key attributes that characterize I/O workloads for sizing the PowerStore storage solution are Random vs. Sequential I/O and Read vs. Write ratios. Understanding these attributes helps in accurately sizing the storage system to meet performance and capacity requirements.

## NEW QUESTION # 23

What activity is initiated along with the site evaluation to ensure the solution being sold is supported in a customer environment?

- A. Remediation
- B. Implementation
- C. Sizing
- D. Design

**Answer: A**

## NEW QUESTION # 24

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