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Exam : D-MSS-DS-23

Title : Dell MidRange Storage Solutions Design 2023

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

Topic	Details
Topic 1	<ul style="list-style-type: none">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.

Topic 2	<ul style="list-style-type: none"> 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 3	<ul style="list-style-type: none"> 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.

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EMC Dell Midrange Storage Solutions Design 2023 Sample Questions (Q41-Q46):

NEW QUESTION # 41

In a Dell Unity XT system, SSD wear alerts are issued at 180-, 90-, 60-, and 30-day periods before the predicted end of life. What is automatically initiated on the spare drive at 30 days?

- A. Predictive Copy Operations
- B. Preemptive Copy Operations
- C. Protective Copy Operations
- D. Proactive Copy Operations

Answer: D

Explanation:

- * SSD Wear Alerts in Unity XT:
- * Dell Unity XT systems monitor SSD wear and issue alerts at various intervals (180, 90, 60, and 30 days) before the predicted end of life.
- * Action at 30 Days:
- * At the 30-day alert, the system automatically initiates Proactive Copy Operations to copy data from the wearing SSD to a spare drive, ensuring data integrity and continuity.
- * Proactive Copy Operations:
- * This proactive measure helps prevent data loss and maintains system performance by preparing for SSD replacement in advance.
- * Dell Midrange Storage References:
- * Dell Unity XT documentation provides detailed guidelines on SSD wear monitoring and the associated proactive measures.
- * Community forums and support resources from Dell Technologies offer additional insights into system maintenance and proactive data protection.
- References:
- * Dell Unity XT SSD Wear Guide
- * Dell Community on Storage Maintenance

NEW QUESTION # 42

Which two options allow the collection of telemetry files when evaluating an existing Dell Unity XT system configuration? (select 2)

- A. unity_service_data collects

- B. PSTCLI
- C. UEMCLI
- D. unity_telemetry_data collects

Answer: A,C

NEW QUESTION # 43

While sizing a PowerStore solution with 5 TB usable capacity and 5000 IOPS for a Test/Development Application using NVMe drives, a solution architect observes that the recommended solution is 10 times the requested capacity. What action must the architect take?

- A. Configure the Unity solution as an alternative.
- B. Change the DRR of the solution.
- C. Change the DRE Tolerance Parity in System Editor.

Answer: B

Explanation:

* Understanding DRR (Data Reduction Ratio):

* The Data Reduction Ratio (DRR) is a measure used in storage solutions to determine the efficiency of data reduction technologies such as deduplication and compression.

* In NVMe-based systems like PowerStore, achieving an optimal DRR is crucial for balancing capacity and performance.

* Sizing PowerStore Solutions:

* When sizing a PowerStore solution, it's essential to align the provided capacity and performance (IOPS) with the customer's requirements.

* If the recommended solution vastly exceeds the requested capacity (10 times more in this case), it indicates an overly conservative DRR assumption.

* Recommended Action:

* The architect should adjust the DRR to reflect a more accurate estimate that aligns with the customer's actual data reduction potential.

* This adjustment ensures that the solution is cost-effective and meets the performance criteria without excessive over-provisioning.

* Dell Midrange Storage References:

* Dell Technologies documentation on PowerStore solutions provides detailed guidelines on DRR configurations and best practices.

* Resources include sizing tools, system editor settings, and real-world case studies that illustrate appropriate DRR adjustments.

References:

* Dell PowerStore Overview

* Dell Community on Midrange Storage

* Dell Storage Product Information

NEW QUESTION # 44

The CPU utilization in a Dell Unity XT system is currently at 68%. What is the level of CPU utilization?

- A. Low Utilization
- B. High Utilization
- C. Extremely High Utilization
- D. Normal Utilization

Answer: D

Explanation:

The Dell Unity XT storage systems have defined thresholds for various resource utilizations, including CPU utilization. According to the Dell Unity XT Best Practices and Performance Guidelines (DELL UNITY:

BEST PRACTICES GUIDE, Dell Technologies, Dell Unity OE version 5.x), the typical CPU utilization levels are classified as follows:

Normal Utilization: CPU usage under typical operating conditions generally ranges from 40% to 70%. This is considered optimal and normal for Unity XT systems.

High Utilization: CPU usage between 70% and 85% is considered high but generally still within operational norms.

Extremely High Utilization: Above 85% utilization may lead to performance impacts and should be investigated.

Low Utilization: Utilization below 40% may indicate under-utilization of resources or low system activity.

Since the CPU utilization in this case is 68%, it falls in the range of normal utilization. It suggests that the system is performing well and efficiently handling the workload without strain.

This categorization ensures that administrators can quickly assess system health and identify potential bottlenecks or underutilization issues. The Dell Unity XT storage system's management interface and performance monitoring tools (like Unisphere or CloudIQ) also align with these utilization thresholds.

Reference:

Dell Unity: Best Practices Guide, Dell Technologies, Dell Unity OE 5.x
Dell EMC Unity Family: Introduction to the Platform, Dell Technologies
Dell EMC Unity Performance Metrics (Unisphere and CloudIQ documentation)

NEW QUESTION # 45

What is the recommended order for connecting DAEs to SAS ports when only two ports are available on each SP of a Dell Unity XT DPE?

- A. DAE 1 to SAS Bus 1 DAE 2 to SAS Bus 1 DAE 3 to SAS Bus 0
- B. DAE 1 to SAS Bus 1 DAE 2 to SAS Bus 0 DAE 3 to SAS Bus 1
- **C. DAE 1 to SAS Bus 0 DAE 2 to SAS Bus 1 DAE 3 to SAS Bus 0**
- D. DAE 1 to SAS Bus 0 DAE 2 to SAS Bus 0 DAE 3 to SAS Bus 1

Answer: C

Explanation:

When connecting Disk Array Enclosures (DAEs) to SAS ports on a Dell Unity XT DPE (Disk Processor Enclosure) with only two ports available on each SP (Storage Processor), the recommended order is DAE 1 to SAS Bus 0, DAE 2 to SAS Bus 1, and DAE 3 to SAS Bus 0. This configuration helps in balancing the load across the available SAS ports, ensuring optimal data flow and performance.

NEW QUESTION # 46

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