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Question 1

Question Type: MultipleChoice

A systems administrator is responsible for the operations of 20 XtremIO X1 clusters; each are using a standalone XMS server. The administrator wants to consolidate management operations to the minimum number of XMS servers as possible.

What is the smallest number of XMS servers that can support the environment?

Options:

A- 2

B- 4

C- 3

D- 1

Answer:

B

Explanation:

A single XtremIO Management Server (XMS) can manage up to 8 X-Brick clusters.

For 20 XtremIO X1 clusters, the smallest number of XMS servers required to support the environment is 4.

Consolidating management operations to the minimum number of XMS servers helps in simplifying administration and monitoring tasks.

Dell XtremIO XMS Configuration Guide

XtremIO Cluster Management Documentation

Question 2

Question Type: MultipleChoice

When configuring disk groups for Oracle ASM using XtremIO as the storage array, what is the recommended redundancy type for the ASM disk groups?

Options:

A- RecoverPoint

B- High

C- External

D- Normal

Answer:

C

Explanation:

When using XtremIO storage arrays for Oracle ASM disk groups, the recommended redundancy type is typically external redundancy. This is because XtremIO arrays are built with inherent data protection and redundancy features that eliminate the need for additional mirroring at the ASM level¹.

External Redundancy: With external redundancy, Oracle ASM does not mirror data within the disk group. Instead, it relies on the underlying storage system to provide redundancy and data protection. XtremIO's unique data protection scheme, XDP (XtremIO Data Protection), provides such redundancy¹.

XtremIO Features: XtremIO arrays are designed with high levels of fault tolerance and include features like SSD failover and advanced error correction. These features ensure data integrity and availability, making external redundancy a suitable choice¹.

Performance Considerations: Choosing external redundancy can also lead to better performance since it avoids the overhead of additional mirroring at the ASM level, which is unnecessary given XtremIO's capabilities¹.

Best Practices: Dell EMC recommends using external redundancy for ASM disk groups when using storage arrays like XtremIO that provide their own robust data protection mechanisms¹.

In summary, for Oracle ASM disk groups using XtremIO storage arrays, external redundancy (OC) is the recommended setting, as it leverages the array's built-in redundancy features and optimizes performance¹.

Question 3

Question Type: MultipleChoice

A company's storage administration team wants to receive e-mail notifications when the XtremIO cluster detects an issue of major severity. The administration team has successfully configured and tested the e-mail server in the XtremIO web interface. However, the e-mail server is not receiving the expected notifications when major severity issues appear.

What is the cause of this issue?

Options:

- A- ESRS must also be configured
- B- Alert definitions have not been defined
- C- Event handlers have not been defined
- D- Private reports have not been defined

Answer:

B

Explanation:

If the email server is not receiving notifications for major severity issues, it is likely because alert definitions have not been defined.

Alert definitions specify the conditions under which notifications are sent, and without these, the system will not trigger email alerts.

Ensuring proper configuration of alert definitions is essential for timely notifications of critical events.

Dell XtremIO Administration Guide

[XtremIO Alerts Configuration Documentation](#)

Question 4

Question Type: MultipleChoice

Which operational state of an XtremIO X2 NVRAM card will trigger SuperCap discharging?

Options:

- A- Power Failure
- B- Normal Operation
- C- Data Secured
- D- Power Restored

Answer:

A

Explanation:

The SuperCapacitor (SuperCap) in an XtremIO X2 NVRAM card is designed to provide power to the card in the event of a power failure. When there is a power failure, the SuperCap discharges to maintain power to the NVRAM card long enough to ensure that all data in transit is written to flash storage, preventing data loss¹.

Here's the sequence of events during a power failure:

Power Failure Detected: The system detects a loss of power to the NVRAM card.

SuperCap Discharge: The SuperCap begins to discharge, providing backup power to the NVRAM card.

Data Write: The NVRAM card uses the power from the SuperCap to write any data in transit to the SSDs in the storage array.

Data Secured: Once the data is safely written to the SSDs, the NVRAM card can safely shut down without risking data loss.

The SuperCap is a critical component that ensures data integrity during unexpected power interruptions. It is not used during normal operation (OB), after data is secured (OC), or when power is restored (OD). Its primary function is to protect data during power failures (OA)1.

Question 5

Question Type: MultipleChoice

A systems administrator recently purchased XtremIO for their Oracle environment. Along with path failover software, which best practice for HBA drivers is reinforced in the

integration of Oracle with XtremIO?

Options:

- A- Increase the queue depth and execution throttle to 'maximum'
- B- Set the queue depth and execution throttle to '512'
- C- Decrease the queue depth and execution throttle to 'minimum'

D- Set the queue depth and execution throttle to '256'

Answer:

A

Explanation:

For integrating Oracle with XtremIO, along with path failover software, it is best practice to increase the queue depth and execution throttle to 'maximum.'

This configuration optimizes the handling of I/O requests, improving performance and efficiency.

Properly tuning these settings ensures that the HBA drivers can handle the high I/O demands of an Oracle environment on XtremIO.

Dell XtremIO Oracle Integration Guide

[XtremIO Configuration Best Practices](#)

Question 6

Question Type: MultipleChoice

You want to use the REST API to interact with an XtremIO cluster. Which application can be used to perform this operation?

Options:

A- WinSCP

B- cURL

C- FileZilla

D- ProComm

Answer:

B

Explanation:

cURL is an application that can be used to interact with an XtremIO cluster via the REST API.

It allows for the execution of various HTTP commands to manage and retrieve information from the storage array.

cURL is widely used for its simplicity and capability to handle RESTful web services, making it suitable for managing XtremIO clusters.

Dell XtremIO RESTful API Guide

Question 7

Question Type: MultipleChoice

If a systems administrator needs to create a new XtremIO report, what is the minimum account role required?

Options:

- A- Configuration
- B- Read Only
- C- Administrator
- D- Technician

Answer:

C

Explanation:

In the context of XtremIO storage systems, creating reports typically requires administrative privileges. The role of an Administrator is usually necessary to access and manage the full range of system functionalities, including the generation of new reports. Here's why:

Configuration Role (OA): While this role may allow for some system configurations, it might not have the necessary permissions to create new reports, which often involve accessing and manipulating system-wide data.

Read-Only Role (B): This role is typically limited to viewing configurations and reports that already exist within the system. It does not permit the creation of new reports or modification of existing ones.

Administrator Role (OC): An Administrator role usually has the highest level of access within a system, including the ability to create, modify, and delete reports. This role can access all areas of the system and make changes as required.

Technician Role (OD): The Technician role may have permissions for certain operational tasks and troubleshooting but is not typically empowered to create system reports.

Therefore, the minimum account role required to create a new XtremIO report would be the Administrator role (OC), as it provides the necessary access and permissions to perform such tasks within the storage system.

Question 8

Question Type: MultipleChoice

What is the maximum number of volumes allowed in an XtremIO Consistency Group?

Options:

A- 512

B- 128

C- 256

D- 1024

Answer:

A

Explanation:

The maximum number of volumes allowed in an XtremIO Consistency Group is 512.

Consistency Groups ensure that multiple volumes can be managed and replicated together, maintaining data consistency across all included volumes.

This limit allows for efficient management and scalability of storage resources within the XtremIO environment.

Dell XtremIO Configuration Guide

XtremIO Consistency Group Best Practices

Question 9

Question Type: MultipleChoice

In addition to PowerPath, what other supported multipathing software is used for VMware ESXi hosts connecting to XtremIO?

Options:

- A- NMP
- B- MPIO
- C- DMP
- D- SDD

Answer:

A

Explanation:

In addition to PowerPath, the supported multipathing software for VMware ESXi hosts connecting to XtremIO is Native Multipathing (NMP).

NMP is integrated with VMware and provides basic multipathing capabilities, allowing for path redundancy and load balancing.

Properly configuring multipathing is crucial for achieving high availability and optimal performance in a VMware environment with XtremIO storage.

Dell EMC Host Connectivity Guide for VMware ESXi

XtremIO Multipathing Configuration Documentation

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