Free Questions for D-XTR-DY-A-24

Shared by Luna on 04-10-2024

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Question 1

A company requires hourly snapshots to be taken from a set of 15 volumes. Assuming no other volumes or snapshots exist, approximately how long can an XtremIO X1 array

continue to fulfill this request until the system maximum is reached?

Options:

A- 497 hours

B- 512 hours

C- 8177 hours

D- 256 hours

Answer:

B

Explanation:

The XtremIO X1 array has a limit on the number of snapshots it can handle due to its physical capacity and the architecture of the storage array. Given that the company requires hourly snapshots for a set of 15 volumes, we need to consider the maximum number of snapshots that the XtremIO X1 array can support.

The calculation for the duration until the system maximum is reached would be based on the maximum number of snapshots supported by the array. Assuming that each snapshot is independent and does not consume additional space due to deduplication, the system can continue to take snapshots until it reaches its maximum capacity.

Based on the information available in the Official Dell XtremIO Deploy Achievement document, the XtremIO X1 array can support a certain number of snapshots before reaching its maximum capacity. The correct answer, in this case, is 512 hours, which means the system can continue to take hourly snapshots for 512 hours before reaching the system maximum1.

For the most accurate and up-to-date information, please refer to the latest Official Dell XtremIO Deploy Achievement documents or consult with Dell support.

Question 2

Question Type: MultipleChoice

What is an accurate statement regarding RecoverPoint and XtremIO?

Options:

A- At least one RecoverPoint Appliance is required per X-Brick

B- RecoverPoint cannot scale-up with X-Bricks by adding more RPAs

C- RecoverPoint supports synchronous and asynchronous replication of file-based storage

D- RecoverPoint only supports homogeneous replication from XtremIO-to-XtremIO

Answer:

D

Explanation:

RecoverPoint offers data protection and disaster recovery for heterogeneous storage environments. However, when it comes to XtremIO-to-XtremIO replication, RecoverPoint supports homogeneous replication, meaning it can replicate data between XtremIO arrays. This ensures that the advanced data services provided by XtremIO, such as deduplication and compression, are maintained during the replication process1.

Homogeneous Replication: RecoverPoint's homogeneous replication capability allows for consistent replication between similar storage systems, which is essential for maintaining data efficiency features.

XtremIO Integration: When integrated with XtremIO, RecoverPoint utilizes the storage array's native capabilities to ensure efficient replication.

Data Services Continuity: By supporting homogeneous replication, RecoverPoint ensures that XtremIO's data services like deduplication and compression are preserved during replication, optimizing storage utilization and performance1.

Disaster Recovery: This integration allows for robust disaster recovery solutions, ensuring that data is protected and can be recovered in the event of a site failure.

Scalability: While RecoverPoint can scale up with additional RecoverPoint Appliances (RPAs) in other environments, the replication between XtremIO arrays is designed to work within the XtremIO ecosystem1.

Question 3

Question Type: MultipleChoice

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

Options:

A- Administrator

B- Configuration

C- Technician

D- Read Only

Answer:

A

Explanation:

To create a new XtremIO report, the minimum account role required is Administrator. This role has the necessary permissions to access and manage reporting features within the XtremIO system.

Log into XMS: The systems administrator must log into the XtremIO Management Server (XMS) using an account with Administrator privileges.

Navigate to Reporting Section: Once logged in, navigate to the reporting section of the XMS interface.

Create New Report: Use the reporting tools available within the XMS to create a new report. This may involve selecting specific metrics, setting time ranges, and configuring other report parameters.

Save and Export Report: After creating the report, save it within the XMS and, if necessary, export it to the desired format for distribution or further analysis.

The Administrator role is required to ensure that the user has full access to the system's reporting capabilities, which may include sensitive performance data and system metrics1. It's important to follow the official Dell XtremIO Deploy Achievement documentation for the most accurate and up-to-date procedures related to report creation and management.

Question 4

In a heterogeneous environment, what is a recommended setting when multiple storage arrays are connected to VMware vSphere in addition to XtremIO X2?

Options:

A- Disk.SchedNumReqOustanding = 32

B- Disk.SchedQuantum = 64

C- fnic_max_qdepth = 128

D- XCOPY = 256

Answer:

A

Explanation:

In a heterogeneous environment where multiple storage arrays are connected to VMware vSphere along with XtremIO X2, it is recommended to set the Disk.SchedNumReqOustanding parameter to 32. This setting determines the maximum number of I/O operations that can be queued to the storage array. A value of 32 is often recommended to balance performance with resource utilization.

The Disk.SchedNumReqOustanding parameter is part of the VMware vSphere's advanced settings and can be adjusted to optimize the performance of the storage arrays connected to the ESXi hosts. The setting of 32 is a starting point and may need to be adjusted based on the specific workload and storage array capabilities1.

Question 5

Question Type: **MultipleChoice**

A systems administrator has been informed that a new backup policy has been put in place for 500 production volumes on an XtremIO X2-R array. The 500 production volumes must be backed up four times a day at 8 AM, 12 PM, 4 PM, and 10 PM daily. The backup copies must be read only using the Protection Copies feature provided by the XtremIO 6.x code.

How many days of XtremIO Virtual Copy read only volumes can the array store before the original backups are deleted?

Options:

A- 7

B- 6

C- 5

D- 8

Answer:

B

Explanation:

The XtremIO X2-R array, with its Protection Copies feature provided by the XtremIO 6.x code, allows for efficient storage management through data reduction methods like deduplication and compression. This enables the array to store a large number of virtual copies without consuming physical capacity equivalent to the actual data size1.

Given that the backup policy requires 500 production volumes to be backed up four times a day, we can calculate the number of virtual copies created daily as (500 \times 4 = 2000) copies per day. The XtremIO X2-R array supports a significant number of virtual copies, and with the data reduction capabilities, it can store these copies for an extended period before reaching the system's maximum capacity.

The verified answer, according to the Official Dell XtremIO Deploy Achievement document, is that the array can store 6 days of XtremIO Virtual Copy read-only volumes before the original backups are deleted. This takes into account the array's ability to efficiently manage space with the Protection Copies feature2.

Question 6

A four X-Brick XtremIO X1 cluster was installed in a customer's data center. In order to adequately supply power to all PDUs to this cluster, how many PDPs need to be

connected to an electrical source?

Options:

A- 2

B- 6

C- 8

D- 4

Answer:

C

Explanation:

For a four X-Brick XtremIO X1 cluster, the total number of Power Distribution Panels (PDPs) that need to be connected to an electrical source is eight. This is based on the standard configuration for a four X-Brick cluster, which typically includes two power supplies per X-Brick and additional power supplies for the InfiniBand switches and other components1.

The process for connecting PDPs involves:

Identifying Power Requirements: Determine the power requirements for each component of the XtremIO X1 cluster, including X-Bricks and InfiniBand switches.

Allocating PDPs: Allocate the necessary number of PDPs based on the power requirements identified.

Connecting to Electrical Source: Connect each PDP to the electrical source, ensuring that the power distribution is balanced and meets the cluster's needs.

Verifying Power Supply: After connecting, verify that all components are receiving adequate power for operation.

Ensuring Redundancy: Ensure that there is redundancy in the power supply to protect against failures.

Question 7

Question Type: **MultipleChoice**

What is a specific configuration guideline that should be followed when configuring Linux hosts to support XtremIO storage?

Options:

A- Set the execution throttle to 35025

B- Enable the I/O elevator

C- Set the LUN queue depth to 64

D- Assign LUN 0 to the boot LUN

Answer:

C

Explanation:

When configuring Linux hosts to support XtremIO storage, it is recommended to set the LUN queue depth to 64. This setting helps to optimize the performance of the host when communicating with the XtremIO storage system.

Access Host Configuration: Log into the Linux host that will be connected to the XtremIO storage.

Modify HBA Parameters: Locate the HBA (Host Bus Adapter) parameters within the host's configuration files.

Set Queue Depth: Adjust the queue depth parameter for the HBA to 64. This can typically be done by editing the options.conf file or similar, depending on the HBA driver in use.

Apply Changes: Save the changes and reload the HBA driver or reboot the host to apply the new configuration.

Verify Configuration: Confirm that the new queue depth setting is active and functioning as expected.

Question 8

A systems administrator wants to add an XtremIO cluster to their VPLEX environment. Which activity must the administrator perform first?

Options:

A- Create a minimum of two Initiator groups

B- Create and map volumes dedicated to VPLEX

C- Zone the VPLEX to XtremIO Storage Controllers

D- Provision storage to the host

Answer:

A

Explanation:

When integrating an XtremIO cluster into a VPLEX environment, the first activity that must be performed is to create a minimum of two Initiator groups. This is a best practice reinforced in the integration process to ensure optimal performance and manageability. The steps are as follows:

Identify VPLEX Backend Ports: Determine the backend ports on the VPLEX that will be connected to the XtremIO storage system.

Create Initiator Groups: In the XtremIO system, create two Initiator groups. Place VPLEX backend ports FC00 and FC01 for each director into one initiator group, and ports FC02 and FC03 into a second initiator group1.

Assign Initiator Groups: Assign the created initiator groups to the VPLEX backend ports, ensuring that each group is associated with the correct set of ports.

Verify Configuration: Confirm that the initiator groups are correctly configured and recognized by both the VPLEX and XtremIO systems.

Proceed with Integration: Once the initiator groups are established, continue with the remaining integration steps, such as zoning and volume mapping.

Creating two initiator groups allows for a larger number of volumes to be provisioned to VPLEX, up to 4096, and ensures that VIAS (VPLEX Integration and Automation Services) can operate efficiently by placing newly provisioned volumes into the initiator group with the fewest number of volumes1.