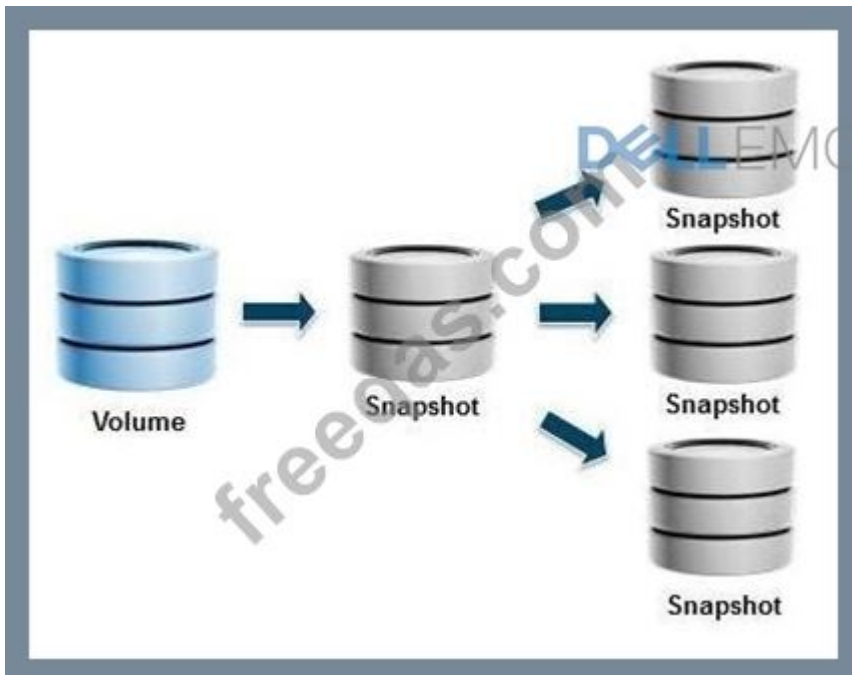


EMC.D-XTR-DY-A-24.v2024-11-11.q38

Exam Code:	D-XTR-DY-A-24
Exam Name:	Dell XtremIO Deploy Achievement
Certification Provider:	EMC
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https://www.freeqas.com/qa/EMC/D-XTR-DY-A-24/EMC.D-XTR-DY-A-24.v2024-11-11.q38.html	

NEW QUESTION: 1



Refer to the Exhibit.

An XtremIO administrator is asked to provide a copy of a 25 TiB database to a group of users. Each user needs to have their own copy of the database in order to perform a variety of manipulations on the data. This process needs to be repeated every day of the week. The administrator is concerned about the time it will take to make the initial copy of the database and is investigating the use of snapshots of snapshots.

How does each snapshot impact its ancestor?

- A. Each first write to each snapshot will trigger a COFW from its ancestor
- B. Each first access to each snapshot will trigger a COFA from its ancestor
- C. Each snapshot can be considered a unique volume and has no impact on its ancestor

D. Each first write to a block of the production volume will trigger a COFW to each child snapshot

Answer: A (LEAVE A REPLY)

In XtremIO, snapshots are created efficiently using metadata rather than duplicating the actual data blocks.

When a snapshot is made, it initially shares the same data blocks as its ancestor. When the first write occurs to a block in a snapshot, it triggers a Copy-On-First-Write (COFW) operation. This means the original data block is copied to a new location to preserve the integrity of the snapshot, ensuring that each snapshot reflects the data state at the moment of its creation.

This COFW operation ensures that the data remains consistent and unchanged for each snapshot, while allowing new writes to occur without impacting the original data or other snapshots. As a result, the first write to each snapshot impacts its ancestor by triggering a COFW operation.

References:

* Dell XtremIO Deployment and Learning Course Materials

NEW QUESTION: 2

What are the documented sequence of steps to deploy an XMS OVF template?

Steps

Select the disk format "Thin" and then, select Finish

Name the VM or keep the default name

Verify the template details for space requirements

Select the source file of the OVA image

Answer:

Steps

Select the disk format "Thin" and then, select Finish

Name the VM or keep the default name

Verify the template details for space requirements

Select the source file of the OVA image

Select the source file of the OVA image

Verify the template details for space requirements

Name the VM or keep the default name

Select the disk format "Thin" and then, select Finish

NEW QUESTION: 3

Which user ID is required to install the XtremIO X1 XtremApp code onto the XMS and Storage Controllers?

- A. xmsadmin
- B. xinstall
- C. tech
- D. admin

Answer: C (LEAVE A REPLY)

To install the XtremIO X1 XtremApp code onto the XMS and Storage Controllers, the user ID required is 'tech'. This user ID is typically reserved for technical users who perform system installations and configurations.

The process for using the 'tech' user ID to install XtremApp code generally involves:

Logging into XMS: Use the 'tech' user ID to log into the XtremIO Management Server (XMS).

Accessing Installation Area: Navigate to the area within the XMS where you can install or update the XtremApp code.

Running Installation Command: Execute the appropriate command or script that initiates the installation of the XtremApp code.

Monitoring Installation Process: Watch the progress of the installation and check for any prompts or input that might be required during the process.

Verifying Installation: After the installation is complete, verify that the XtremApp code is correctly installed and functioning as expected on both the XMS and the Storage Controllers.

NEW QUESTION: 4

Which XMCLI command is used to verify the encryption capability of the DAE drives?

- A. show-daes
- B. show-ssds
- C. show-volumes
- D. show-local-disks

Answer: ([SHOW ANSWER](#))

NEW QUESTION: 5



Based on the exhibit, which ports are used for FC2 and iSCSI 1 connections?

- A. a and c
- B. a and d
- C. b and c
- D. b and d

Answer: ([SHOW ANSWER](#))

* Port Identification: Based on the exhibit, ports a, b, c, and d need to be identified correctly.

* Port a: Typically used for Fibre Channel (FC) connections.

* Port c: Typically used for iSCSI connections.

* FC2 and iSCSI 1 Connections: Ports a and c correspond to FC2 and iSCSI 1 connections respectively.


References:

- * Dell XtremIO Installation Guide
- * XtremIO User Guide
- * Dell XtremIO Deployment Services

NEW QUESTION: 6

What are the documented sequence of steps to deploy an XMS OVF template?


Steps
Select the disk format "Thin" and then, select Finish
Name the VM or keep the default name
Verify the template details for space requirements
Select the source file of the OVA image



Answer:

Steps


Select the disk format "Thin" and then, select Finish	Select the source file of the OVA image
Name the VM or keep the default name	Verify the template details for space requirements
Verify the template details for space requirements	Name the VM or keep the default name
Select the source file of the OVA image	Select the disk format "Thin" and then, select Finish



Explanation:

Answer area

1	Select the source file of the OVA image
2	Verify the template details for space requirements
3	Name the VM or keep the default name
4	Select the disk format "Thin" and then, select Finish



The documented sequence of steps to deploy an XMS OVF template includes:

- * Select the source file of the OVA image.
- * Verify the template details for space requirements.
- * Name the VM or keep the default name.
- * Select the disk format "Thin" and then, select Finish.
- * Select the Source File: Begin by selecting the source file of the OVA image, which is the package containing all files for the VM1.
- * Verify Template Details: Check the template details to ensure there is enough space on the datastore for the VM1.
- * Name the VM: Assign a unique name to the VM or retain the default name provided in the OVA template1.

* Select Disk Format: Choose the "Thin" disk format to save storage space, as it allocates space as needed rather than upfront¹.

* Complete the Deployment: Finalize the deployment process by selecting 'Finish', which will deploy the VM to your environment¹.

NEW QUESTION: 7

What is an accurate statement when managing multiple XtremIO X2 clusters?

- A.** One XMS can manage up to 16 X-Brick clusters
- B.** Clusters can only be added/removed through the XMCLI
- C.** Virtual XMS can manage up to four X-Brick clusters
- D.** XtremIO X1 XMS can manage XtremIO X2 clusters

Answer: A (LEAVE A REPLY)

When managing multiple XtremIO X2 clusters, the XtremIO Management Server (XMS) is designed to manage multiple clusters efficiently. According to the Official Dell XtremIO Deploy Achievement document, one XMS can manage up to 16 X-Brick clusters. This capability is part of the XMS's design to provide centralized management and monitoring for large-scale deployments, allowing administrators to manage a significant number of clusters from a single interface¹.

The XMS provides a comprehensive set of management features, including performance monitoring, alerting, reporting, and configuration management for all connected XtremIO clusters. It simplifies the administration of multiple clusters by providing a unified view and control over the entire XtremIO environment¹.

NEW QUESTION: 8

When adding a user account in the XtremIO X2 XMS, which information is required?

- A.** Password, account type, and timeout value
- B.** Authentication method, timeout value, and LDAP
- C.** E-mail notification, account type, and public key
- D.** Unique user name, account type, and e-mail notification

Answer: (SHOW ANSWER)

When adding a user account in the XtremIO X2 XMS, the required information includes a unique user name, account type, and e-mail notification settings. Here's a detailed explanation:

Unique User Name: A unique identifier for the user account. This is essential to distinguish between different users and manage permissions accordingly.

Account Type: Specifies the level of access or role assigned to the user account, such as administrator, viewer, or custom roles with specific privileges.

E-mail Notification: Configuration settings for sending alerts and notifications to the user's e-mail address. This is important for monitoring and managing the system effectively.

NEW QUESTION: 9

A systems administrator needs to create a snapshot of a 10-volume database at exactly 1:00 AM and present them to a backup server. What is the best practice to perform this task?

- A. Use a Consistency Group and Snapshot Refresh
- B. Use a Snapshot Set and the Scheduler
- C. Use a Consistency Group and the Scheduler
- D. Use a Snapshot Restore and Snapshot Set

Answer: (SHOW ANSWER)

The best practice for creating a snapshot of a 10-volume database and presenting them to a backup server at a scheduled time is to use a Consistency Group in conjunction with the Scheduler. This approach ensures that all volumes in the snapshot are consistent with each other, as they are taken at the same point in time. The Scheduler allows for the automation of this process, ensuring that the snapshot is created at exactly 1:00 AM without manual intervention. This method is recommended for maintaining consistency across multiple volumes, which is crucial for databases to ensure transactional integrity¹.

NEW QUESTION: 10

A systems administrator upgraded a Microsoft Windows 2003 server to Windows Server 2008. The administrator noticed that performance is less than expected. Investigation has shown that the partitions on the XtremIO volumes are misaligned.

Which step(s) should be taken to align the data?

- A. Backup the data, run diskpart, recreate the partition, restore the data
- B. Use Disk Management to move the partition
- C. Backup the data, run fdisk, recreate the partition, restore the data
- D. Use Mbralign to move the partition

Answer: A (LEAVE A REPLY)

To align the partitions on XtremIO volumes after an upgrade from Windows Server 2003 to Windows Server

2008, the following steps should be taken:

- * Backup the Data: First, ensure that all data on the existing misaligned partitions is backed up to a secure location to prevent any data loss.
- * Run Diskpart: Use the Diskpart utility, which is a command-line tool in Windows, to delete the existing partitions and create new aligned partitions. Diskpart allows for more control over the alignment process compared to graphical tools.
- * Recreate the Partition: After deleting the misaligned partitions, create new partitions using Diskpart with the correct alignment settings as per the XtremIO best practices.
- * Restore the Data: Once the new partitions are created and properly aligned, restore the data from the backup to the newly aligned partitions.

This process ensures that the partitions are aligned correctly, which can significantly improve performance due to more efficient disk access patterns¹. It's important to follow the detailed procedures outlined in the official Dell XtremIO Deploy Achievement documentation to ensure proper alignment and to avoid any potential issues during the process.

NEW QUESTION: 11

After the volumes are created, which steps are required to provision the XtremIO volumes to the servers?

- A. Host configuration, RAID groups, SAN connectivity, and volumes mapping
- B. Host configuration, SAN connectivity, encryption, and volumes mapping
- C. Host configuration, SAN connectivity, Initiator group, and volumes mapping
- D. Host configuration, create pools, SAN connectivity, and volumes mapping

Answer: C (LEAVE A REPLY)

After creating volumes on an XtremIO system, the steps required to provision these volumes to the servers involve host configuration, establishing SAN connectivity, setting up an Initiator group, and mapping the volumes.

Host Configuration: Configure the host's HBA (Host Bus Adapter) to ensure it can connect to the SAN (Storage Area Network). This involves setting the correct parameters such as data transfer rates and queue depths.

SAN Connectivity: Establish connectivity between the host and the SAN. This includes zoning in a Fibre Channel network or setting up the appropriate network configurations for iSCSI.

Initiator Group: Create an Initiator group within the XtremIO system. This group will contain the identifiers (WWPN for Fibre Channel or IQN for iSCSI) of the host's HBA.

Volumes Mapping: Map the volumes to the host by creating a LUN (Logical Unit Number) mapping that associates the volumes with the Initiator group. This allows the host to see and access the volumes.

These steps ensure that the XtremIO volumes are correctly provisioned and accessible to the servers. It's important to follow the specific procedures outlined in the official Dell XtremIO Deploy Achievement documentation to ensure proper configuration and to avoid any potential issues during the provisioning process.

NEW QUESTION: 12

During an XtremIO X1 installation, which document should be used to identify the ports for IPMI cable connections?

- A. XtremIO Storage Array Hardware Installation and Upgrade Guide
- B. XtremIO Storage Array Installation Summary Form
- C. XtremIO Storage Array Software Installation and Upgrade Guide
- D. XtremIO Storage Array Site Preparation Guide

Answer: A (LEAVE A REPLY)

During the installation of an XtremIO X1 system, the document that should be used to identify the ports for IPMI (Intelligent Platform Management Interface) cable connections is the XtremIO Storage Array Hardware Installation and Upgrade Guide. This guide typically contains detailed information about the hardware components, including diagrams and descriptions of the ports, which are essential for correctly connecting the IPMI cables.

The process of identifying the correct IPMI ports usually involves the following steps:

Locate the Guide: Access the XtremIO Storage Array Hardware Installation and Upgrade Guide. This document is designed to provide instructions specifically related to the physical components of the XtremIO system.

Identify the Ports: Use the diagrams and descriptions within the guide to locate the IPMI ports on the XtremIO hardware. These ports are typically labeled and may be color-coded to help distinguish them from other ports.

Connect the Cables: Once the IPMI ports have been identified, connect the IPMI cables to these ports as per the instructions provided in the guide. Ensure that the connections are secure and that the cables are not obstructing any other components.

Verify the Connections: After connecting the cables, verify that the connections match the diagrams and descriptions in the guide. This step is crucial to prevent any issues related to incorrect cabling.

Reference Documentation: For the most accurate and up-to-date information, always refer to the latest version of the XtremIO Storage Array Hardware Installation and Upgrade Guide¹. This ensures that any changes or updates to the hardware are taken into account during the installation process.

By following these steps and referring to the correct documentation, you can ensure that the IPMI cable connections are made correctly, which is vital for the remote management and monitoring of the XtremIO X1 system.

NEW QUESTION: 13

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

- A. Disk.SchedNumReqOutstanding = 32
- B. Disk.SchedQuantum = 64
- C. fnic_max_qdepth = 128
- D. XCOPY = 256

Answer: A (LEAVE A REPLY)

In a heterogeneous environment where multiple storage arrays are connected to VMware vSphere along with XtremIO X2, it is recommended to set the Disk.SchedNumReqOutstanding 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.SchedNumReqOutstanding 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.

NEW QUESTION: 14

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

- 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: (SHOW ANSWER)

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.

NEW QUESTION: 15

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?

- A. 7
- B. 6
- C. 5
- D. 8

Answer: (SHOW ANSWER)

* Backup Policy and XtremIO Virtual Copy: The system administrator needs to ensure that the backup policy using XtremIO Virtual Copy (XVC) can store the required read-only copies without exceeding the storage limits.

* Calculating Days of Storage:

* 500 production volumes are backed up 4 times a day.

- * Total copies created per day: 500 volumes * 4 backups/day = 2000 copies/day.
- * Assuming the array can store a specific number of copies before older ones are deleted, let's determine the duration:
- * Duration Calculation:
- * If the array can store copies for 5 days, it can handle: 2000 copies/day * 5 days = 10,000 copies.
- * Thus, the array can store the backup copies for 5 days before the original backups are deleted to make space for new ones.

References:

- * Dell XtremIO 6.x User Guide
- * XtremIO Virtual Copy and Protection Copies Features
- * Dell XtremIO Deployment Services

NEW QUESTION: 16

When using the XtremIO WebUI, what is the correct sequence of steps to map a volume to a host?

Steps	Answer Area
View/verify the results	
Click, Create/Modify Mapping	
Select the volume	
Select an Initiator group	
Assign a LUN number	

Navigation arrows: Right arrow between 'Click, Create/Modify Mapping' and 'Select the volume'; Left arrow between 'Select the volume' and 'Select an Initiator group'; Up arrow between 'Click, Create/Modify Mapping' and 'Select the volume'; Down arrow between 'Select the volume' and 'Select an Initiator group'.

Answer:

Steps	Answer Area
View/verify the results	
Click, Create/Modify Mapping	
Select the volume	
Select an Initiator group	
Assign a LUN number	
View/verify the results	

Navigation arrows: Right arrow between 'Click, Create/Modify Mapping' and 'Select the volume'; Left arrow between 'Select the volume' and 'Select an Initiator group'; Up arrow between 'Click, Create/Modify Mapping' and 'Select the volume'; Down arrow between 'Select the volume' and 'Select an Initiator group'.

Explanation:

Click, Create/Modify Mapping

Select the volume

Select an Initiator group

Assign a LUN number

View/verify the results

- * Click, Create/Modify Mapping: Start by navigating to the section where you can create or modify mappings in the XtremIO WebUI.
- * Select the volume: Choose the volume you want to map to a host from the list of available volumes.
- * Select an Initiator group: Pick the appropriate initiator group, which represents the host or group of hosts to which the volume will be mapped.

- * Assign a LUN number: Assign a Logical Unit Number (LUN) to the volume, which the host will use to access it.
- * View/verify the results: Finally, review the mapping configuration to ensure that everything is set up correctly and verify that the host can access the mapped volume.

References:

- * Dell XtremIO User Guide
- * XtremIO WebUI Documentation
- * Dell XtremIO Deployment Services
- * Best practices for managing volumes and host mappings in XtremIO environments

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NEW QUESTION: 17

In an XtremIO X2-R four X-Brick cluster, how many total rack units should be left for the Cable Management ducts?

- A. 2U
- B. 6U
- C. 4U
- D. 8U

Answer: B (LEAVE A REPLY)

- * Cable Management: Proper cable management is crucial for maintaining an organized and efficient data center environment.
- * Rack Units: For an XtremIO X2-R four X-Brick cluster, it is recommended to allocate 6U for the cable management ducts.
- * Space Allocation: This ensures that there is enough space to manage and organize cables without causing congestion or interfering with airflow.

References:

- * Dell XtremIO Hardware Installation Guide
- * Dell XtremIO Rack and Cable Management Documentation

NEW QUESTION: 18

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?

- A. Increase the queue depth and execution throttle to "maximum"
- B. Decrease the queue depth and execution throttle to "minimum"
- C. Set the queue depth and execution throttle to "512"
- D. Set the queue depth and execution throttle to "256"

Answer: D (LEAVE A REPLY)

For the integration of Oracle with XtremIO, the best practice for HBA drivers includes setting the LUN-queue depth to optimize performance. If a single host is connected to the X-Brick, the LUN-queue depth can be set to the maximum supported by the HBA, which is 256 for QLogic HBAs¹. As additional hosts are added, this setting should be reduced proportionately until reaching a minimum of 32 to maintain optimal performance¹.

Assess Host Connection: Determine the number of hosts connected to the X-Brick.

Set Queue Depth: For a single host, set the queue depth to 256. Adjust as necessary when more hosts are added.

Configure HBA Settings: Apply the queue depth setting in the HBA configuration.

Test Performance: Monitor the system's performance to ensure the settings are optimal.

Adjust if Necessary: If performance issues are observed, adjust the queue depth settings as needed.

NEW QUESTION: 19

Which XMCLI command is used to verify the encryption capability of the DAE drives?

- A. show-local-disks
- B. show-ssds
- C. show-volumes
- D. show-daes

Answer: B (LEAVE A REPLY)

The XMCLI command show-ssds is used to display information about the SSDs in the XtremIO system. This command includes details about the encryption capabilities of the DAE (Disk Array Enclosure) drives, allowing administrators to verify if the drives are capable of encryption and ensuring that the data is secure.

References:

- * Dell XtremIO Deployment and Learning Course Materials
- * XtremIO X2 Command Line Interface Guide

NEW QUESTION: 20

A systems administrator upgraded a Microsoft Windows 2003 server to Windows Server 2008. The administrator noticed that performance is less than expected. Investigation has shown that the partitions on the XtremIO volumes are misaligned.

Which step(s) should be taken to align the data?

- A. Backup the data, run diskpart, recreate the partition, restore the data
- B. Use Disk Management to move the partition
- C. Backup the data, run fdisk, recreate the partition, restore the data

D. Use Mbralign to move the partition

Answer: A (LEAVE A REPLY)

To align the partitions on XtremIO volumes after an upgrade from Windows Server 2003 to Windows Server 2008, the following steps should be taken:

Backup the Data: First, ensure that all data on the existing misaligned partitions is backed up to a secure location to prevent any data loss.

Run Diskpart: Use the Diskpart utility, which is a command-line tool in Windows, to delete the existing partitions and create new aligned partitions. Diskpart allows for more control over the alignment process compared to graphical tools.

Recreate the Partition: After deleting the misaligned partitions, create new partitions using Diskpart with the correct alignment settings as per the XtremIO best practices.

Restore the Data: Once the new partitions are created and properly aligned, restore the data from the backup to the newly aligned partitions.

This process ensures that the partitions are aligned correctly, which can significantly improve performance due to more efficient disk access patterns¹. It's important to follow the detailed procedures outlined in the official Dell XtremIO Deploy Achievement documentation to ensure proper alignment and to avoid any potential issues during the process.

NEW QUESTION: 21

Refer to the exhibit.



Refer to the Exhibit.

An XtremIO administrator is asked to provide a copy of a 25 TiB database to a group of users. Each user needs to have their own copy of the database in order to perform a variety of manipulations on the data. This process needs to be repeated every day of the week. The administrator is concerned about the time it will take to make the initial copy of the database and is investigating the use of snapshots of snapshots.

How does each snapshot impact its ancestor?

- A. Each first write to each snapshot will trigger a COFW from its ancestor
- B. Each first access to each snapshot will trigger a COFA from its ancestor
- C. Each snapshot can be considered a unique volume and has no impact

on its ancestor

D. Each first write to a block of the production volume will trigger a COFW to each child snapshot

Answer: C (LEAVE A REPLY)

In the XtremIO environment, snapshots are treated as unique volumes that are independent of their ancestors. When a snapshot is created, it is essentially a point-in-time copy of the data from the source volume. These snapshots operate independently and do not affect the performance or data integrity of the original volume. Any changes made to a snapshot do not impact the ancestor volume, and vice versa. This allows for efficient use of storage resources and enables multiple users to work with their own copies of the database without affecting the original data.

The process of using snapshots of snapshots, also known as cascaded snapshots, is efficient in XtremIO due to the system's unique data reduction and copy data management (CDM) capabilities. Since only changes from the original are stored, it minimizes the additional storage space required for each user's copy of the database. This approach is particularly beneficial when the same process needs to be repeated daily, as it saves time and storage resources¹.

NEW QUESTION: 22

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

A. FileZilla

B. ProComm

C. WinSCP

D. cURL

Answer: D (LEAVE A REPLY)

To interact with an XtremIO cluster using the REST API, the application that can be used is cURL. cURL is a command-line tool and library for transferring data with URLs and is commonly used for various types of HTTP requests.

The steps to use cURL with the XtremIO REST API are as follows:

Install cURL: Ensure that cURL is installed on your system. It is available for a variety of platforms including Windows, Mac, and Linux.

Prepare the API Request: Formulate your REST API request. This will include the XtremIO cluster's endpoint and the specific API call you wish to make.

Execute the cURL Command: Use the cURL command in your terminal or command prompt to execute the API request. The general syntax for a cURL request is:

```
curl [options] [URL]
```

For example, to list all volumes on an XtremIO cluster, you might use:

```
curl -u username:password -X GET "https://XMS_IP_Address/api/json/v2/types/volumes" Replace username:password with your actual credentials and XMS_IP_Address with the IP address of your XtremIO Management Server (XMS).
```

Analyze the Response: The response from the XtremIO cluster will be output to your terminal. It will typically be in JSON format, which you can then parse and analyze as needed.

Reference Documentation: For detailed information on the REST API calls available and their usage, refer to the official Dell XtremIO Deploy Achievement document¹. This document will provide comprehensive guidance on implementing solutions using XtremIO systems, including the use of REST API for cluster interaction.

By following these steps and referring to the official documentation, you can successfully use cURL to interact with an XtremIO cluster via the REST API.

NEW QUESTION: 23

Based on the XtremIO X1 Storage Array Software Installation and Upgrade Guide, what is the correct sequence of installation steps?

Steps

- Configure ESRS
- Install the Storage Controllers
- Generate an XtremIO Log Bundle
- Install the XMS Server
- Initialize the Cluster Services

Answer Area

Navigation: > < < >

Answer:

Steps

- Install the XMS Server
- Install the Storage Controllers
- Initialize the Cluster Services
- Configure ESRS
- Generate an XtremIO Log Bundle

Answer Area

Navigation: > < < >

Explanation:

Install the XMS Server

Install the Storage Controllers

Initialize the Cluster Services

Configure ESRS

Generate an XtremIO Log Bundle

* Install the XMS Server: The XtremIO Management Server (XMS) must be installed first, as it is the central management point for the XtremIO storage array.

* Install the Storage Controllers: After setting up the XMS, the next step is to install the storage controllers, which are the main components of the XtremIO array responsible for handling data operations.

* Initialize the Cluster Services: Once the storage controllers are installed, you need to initialize the cluster services to configure and prepare the storage array for operation.

* Configure ESRS (EMC Secure Remote Services): After the cluster services are initialized, configure ESRS for remote support and monitoring, ensuring that the system can be supported remotely by Dell EMC.

* Generate an XtremIO Log Bundle: Finally, generate an XtremIO log bundle for initial diagnostics and baseline information. This step ensures that all necessary logs are collected and can be reviewed if needed.

References:

- * Dell XtremIO X1 Storage Array Software Installation and Upgrade Guide
- * Dell XtremIO Deployment Services
- * XtremIO X1 User and Maintenance Guide

NEW QUESTION: 24

When deploying Connect Home using FTPS at the customer site, which TCP ports must be open between the XMS and the Dell Technologies FTP server?

- A.** 443 and 989
- B.** 8443 and 990
- C.** 989 and 990
- D.** 443 and 22

Answer: ([SHOW ANSWER](#))

When deploying Connect Home using FTPS at a customer site, the TCP ports that must be open between the XtremIO Management Server (XMS) and the Dell Technologies FTP server are 989 and 990. These ports are typically used for FTPS to secure the control channel (port 989) and the data channel (port 990).

The process for configuring these ports is as follows:

* Identify FTPS Requirements: Understand that FTPS requires specific ports for secure communication.

Port 989 is used for the FTPS control connection, and port 990 is used for the data transfer.

* Configure Firewall Settings: On the customer's firewall, configure the settings to allow outbound connections on ports 989 and 990 to the Dell Technologies FTP server.

* Verify Connectivity: After configuring the firewall, verify that the XMS can establish a connection to the Dell Technologies FTP server over these ports.

* Test Connect Home Functionality: Use the Connect Home feature to ensure that the XMS can communicate securely with the Dell Technologies FTP server using FTPS.

* Consult Official Documentation: For detailed instructions and best practices, refer to the official Dell XtremIO Deploy Achievement document¹. This document provides comprehensive guidance on all aspects of setting up and managing XtremIO systems, including the deployment of Connect Home using FTPS.

By following these steps and referring to the official documentation, you can ensure that the necessary ports are open for the Connect Home feature to function correctly in an XtremIO deployment.

NEW QUESTION: 25

You are connecting a VMware cluster to an XtremIO array. The host will be connected to the array using QLogic Fibre Channel HBAs. Based on best practices, what is the recommended value for the Execution Throttle?

- A. 16384
- B. 8192
- C. 65535
- D. 4096

Answer: C ([LEAVE A REPLY](#))

* Understanding Execution Throttle: The Execution Throttle setting controls the maximum number of concurrent I/O operations that can be sent from a host to a storage array. This setting is crucial for optimizing performance and preventing overloading of the storage array.

* QLogic Fibre Channel HBAs: QLogic Host Bus Adapters (HBAs) are used for connecting servers to Fibre Channel storage networks. The recommended settings for these HBAs can significantly impact the performance and reliability of the storage network.

* Best Practices for XtremIO and VMware:

* According to best practices for connecting VMware clusters to XtremIO arrays, especially when using QLogic Fibre Channel HBAs, the Execution Throttle value is set to optimize performance.

* The recommended value for the Execution Throttle setting for QLogic HBAs in a VMware environment connected to an XtremIO array is 65535. This value helps ensure that the host can handle a high number of I/O operations efficiently without overwhelming the storage array.

References:

- * Dell XtremIO Best Practices Guide for VMware
- * QLogic HBA Configuration and Performance Tuning Guides
- * Dell XtremIO Deployment Services
- * VMware and XtremIO Integration Documentation.

NEW QUESTION: 26

What is the recommended way to check connectivity of DAE controllers, IB switches, IPMI, and BBU on an XtremIO X1 multi X-Brick after software installation and before cluster creation?

- A. Use the WebUI
- B. Use the Easy-Install menu
- C. Use the Technician Advisor Tool
- D. Use the XMCLI

Answer: ([SHOW ANSWER](#))

The recommended way to check the connectivity of DAE controllers, IB switches, IPMI, and BBU on an XtremIO X1 multi X-Brick after software installation and before cluster creation is to use the XMCLI (XtremIO Management Command Line Interface). The XMCLI provides commands to test connectivity and confirm that all components are healthy and connected within the cluster. Here are the steps:

Access XMCLI: Log into the XtremIO Management Server (XMS) and access the XMCLI.

Run Connectivity Tests: Use the `test-xms-storage-controller-connectivity` command to check the connectivity of the storage controllers. Similar commands are available for other components¹.

Review Test Results: Analyze the output of the commands to ensure that there is no packet loss and that the response times are within acceptable limits.

Troubleshoot if Necessary: If any connectivity issues are detected, use the XMCLI to troubleshoot and resolve them before proceeding with the cluster creation.

Document the Process: Keep a record of the connectivity checks and any actions taken to resolve issues as part of the installation documentation.

NEW QUESTION: 27



When an XtremIO X2 array is delivered, where is the cable shown in the exhibit connected?

- A. Middle USB in X3-SC1 only
- B. Bottom USB in X3-SC1 only
- C. Bottom USB in X3-SC1 and X3-SC2
- D. Middle USB in X3-SC1 and X3-SC2

Answer: D (LEAVE A REPLY)

When an XtremIO X2 array is delivered, the cable shown in the exhibit should be connected to the middle USB ports in both X3-SC1 and X3-SC2. This is based on the standard configuration and setup for XtremIO X2 arrays as per the Dell XtremIO Deploy Achievement document. The middle USB ports are typically used for specific functions such as connecting to a management network or interfacing with other devices that are part of the storage array infrastructure.

The process for connecting the cable is as follows:

- * **Identify the Correct Ports:** Locate the middle USB ports on both X3-SC1 and X3-SC2. These ports are usually marked and differentiated from other USB ports by their position or labeling.
- * **Connect the Cable:** Insert the USB connector end of the cable into the middle USB port on X3-SC1 and then connect the other end to the corresponding port on X3-SC2. Ensure that the connection is secure and that the cable is not obstructing any other components or airflow.
- * **Verify the Connection:** Once connected, verify that the cable is recognized by the system. This can typically be done through the XtremIO Management Server (XMS) interface or by checking the system's hardware configuration.
- * **Check for Functionality:** Ensure that the connected cable functions as intended. This may involve transferring data or accessing the management network, depending on the specific use case for the cable.
- * **Reference Official Documentation:** For detailed instructions and best practices, always refer to the official Dell XtremIO Deploy Achievement document¹. This document provides

comprehensive guidance on all aspects of setting up and managing XtremIO X2 arrays, including cable connections.

By following these steps and referring to the official documentation, you can ensure that the cable is connected correctly and that the XtremIO X2 array is set up for optimal performance and management.

NEW QUESTION: 28

What is the total number of power connectors that must be available in a customer rack for an XtremIO X2 dual X-Brick cluster configuration without a physical XMS installed?

- A.** 10
- B.** 8
- C.** 18
- D.** 16

Answer: D ([LEAVE A REPLY](#))

* Power Connectors for XtremIO X2 Dual X-Brick Configuration: Each X-Brick typically requires multiple power connections for redundancy and reliability. A dual X-Brick configuration without a physical XMS would need to account for these requirements.

* Calculation:

* Each X-Brick has 2 storage controllers, each requiring 2 power connections, totaling 4 power connections per X-Brick.

* For a dual X-Brick configuration: 4 power connections per X-Brick * 2 X-Bricks = 8 power connections.

* Each DAE (Disk Array Enclosure) typically requires 2 power connections. In a dual X-Brick setup, there are 4 DAEs, totaling 8 power connections.

* Total power connections: 8 (for X-Bricks) + 8 (for DAEs) = 16 power connections.

References:

- * Dell XtremIO X2 Installation Guide
- * XtremIO User Guide
- * Dell XtremIO Deployment Services

NEW QUESTION: 29

A systems administrator's VMware Horizon environment consists of 1000 linked clones. Based on best practices, what is the minimum number of datastores required to support this configuration connected to XtremIO?

- A.** 6
- B.** 4
- C.** 8
- D.** 10

Answer: A ([LEAVE A REPLY](#))

* VMware Horizon environments with linked clones require optimal storage configurations for performance and management.

* According to best practices, each datastore should handle a specific number of linked clones to avoid performance bottlenecks.

* For 1000 linked clones, it is recommended to have a minimum of 6 datastores to distribute the load evenly and maintain optimal performance.

References:

* Dell XtremIO Best Practices for VMware Horizon

* VMware Horizon Architecture Guide

NEW QUESTION: 30

During the installation of an XtremIO cluster, you configure the ESRS server using a FQDN for Connect Home. During the test, you discover that the XtremIO cluster fails to connect home.

What is a possible cause for this issue?

A. ESRS IP for an ESRS configuration can only be used

B. DNS needs to be configured on the ESRS Gateway

C. Port 25 is blocked on the firewall

D. DNS needs to be configured on the XMS

Answer: D (LEAVE A REPLY)

The XtremIO Management Server (XMS) requires DNS configuration to resolve Fully Qualified Domain Names (FQDN) used in ESRS (Electronic Support Services) configurations. If the DNS is not configured on the XMS, it will not be able to resolve the ESRS FQDN, leading to a failure in connecting home. Configuring DNS on the XMS ensures that all network addresses, including the ESRS server, can be resolved correctly.

References:

* Dell XtremIO Deployment and Learning Course Materials

* XtremIO X2 Configuration Guide

NEW QUESTION: 31

What is the maximum number of 10 TB X-Bricks that can be configured in an XtremIO X1 cluster?

A. 2

B. 8

C. 1

D. 4

Answer: (SHOW ANSWER)

* Understanding X-Bricks: X-Bricks are the fundamental building blocks of an XtremIO storage array.

Each X-Brick consists of a pair of storage controllers and a set of SSDs.

* XtremIO X1 Cluster Configuration:

* An XtremIO X1 cluster can scale by adding more X-Bricks.

* The scalability and configuration limits depend on the hardware and software capabilities of the XtremIO X1 system.

* Maximum Number of X-Bricks:

- * The XtremIO X1 cluster can be configured with up to 4 X-Bricks.
- * This means the maximum configuration for an XtremIO X1 cluster would include 4 X-Bricks.

References:

- * Dell XtremIO X1 System Overview and Specifications
- * Dell XtremIO Deployment Services
- * Official XtremIO Documentation for hardware and cluster configuration limits.

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NEW QUESTION: 32

When will an administrator receive an alert when "Small IO Alerts" are set to "enabled"?

- A. I/Os <2 KB are detected
- B. I/Os <8 KB are detected
- C. I/Os <1 KB are detected
- D. I/Os <4 KB are detected

Answer: D (LEAVE A REPLY)

The "Small IO Alerts" feature in XtremIO is designed to notify administrators when a significant number of small I/O operations are detected, which could potentially impact the performance of the storage array. The threshold for these alerts is typically set to a default value that considers the architecture and performance characteristics of the system. In the case of XtremIO, the alert is triggered when I/O operations are smaller than 4 KB¹. This threshold is set based on the understanding that smaller I/O sizes can lead to inefficient utilization of the storage array's resources and can be an indicator of suboptimal application behavior or configuration.

NEW QUESTION: 33

Refer to the exhibit.



Refer to the Exhibit.

Which label represents the correct power cable connection between the left power supply in Storage Controller 1 to the Battery Backup Unit in an XtremIO X1 single X-Brick cluster?

- A. X1-SC1-PSU-L > X1-BBU1-Output2
- B. X1-SC1-PSU-L>X1-BBU1-Output1
- C. X1-SC1-PSU-L>X1-BBU2-Output2
- D. X1-SC1-PSU-L > X1-BBU2-Output1

Answer: B (LEAVE A REPLY)

Identify the Components: According to the Dell XtremIO Deploy Achievement document, the XtremIO X1 system includes a Storage Controller (SC) and a Battery Backup Unit (BBU)1.

Understand the Configuration: For a single X-Brick cluster, the left power supply in Storage Controller 1 (X1-SC1-PSU-L) should be connected to the corresponding BBU to ensure proper power redundancy and failover capabilities1.

Determine the Correct Connection: The document specifies that each Storage Controller's left power supply connects to Output1 of the BBU within the same X-Brick cluster1.

Verify the answer: Based on the information provided, the correct power cable

Explanation:connection for the left power supply in Storage Controller 1 to the Battery Backup Unit in an XtremIO X1 single X-Brick cluster is to BBU1-Output1, which corresponds to option OB

Verify the answer: Based on the information provided, the correct power cable

Explanation:connection for the left power supply in Storage Controller 1 to the Battery Backup Unit in an XtremIO X1 single X-Brick cluster is to BBU1-Output1, which corresponds to option OB1.

NEW QUESTION: 34

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

- 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 (LEAVE A REPLY)

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.

NEW QUESTION: 35

When creating a volume on an XtremIO X2-S array, which option can be selected?

- A. Data block pre-allocation
- B. Cache enabled
- C. Tags
- D. Thin or thick volumes

Answer: D (LEAVE A REPLY)

When creating a volume on an XtremIO X2-S array, the option that can be selected is related to provisioning the volume as either thin or thick. However, it's important to note that in the context of XtremIO arrays, volumes are always thin-provisioned¹. Thin provisioning is a method of optimizing the efficiency of available space, where physical storage is allocated on demand in granular data blocks, rather than pre-allocating a fixed amount of storage to a volume (thick provisioning). This approach allows for more flexible and efficient use of storage resources.

NEW QUESTION: 36

What is a required parameter when initializing a cluster for the first time with the create-cluster command on an XtremIO X2?

- A. cluster-psnt
- B. hw-package
- C. profile
- D. package

Answer: A ([LEAVE A REPLY](#))

When initializing an XtremIO cluster for the first time using the create-cluster command, it is essential to provide the cluster's unique identifier, known as the cluster-psnt (Product Serial Number Tag). This parameter ensures that the system can accurately identify and manage the cluster throughout its operational lifecycle.

Other parameters, such as hw-package, profile, and package, may be relevant in different contexts, but the cluster-psnt is a mandatory parameter for initial cluster creation.

References:

* Dell XtremIO Deployment and Learning Course Materials

* XtremIO X2 Installation and Setup Guide

NEW QUESTION: 37

Which RESTful API method is used to retrieve an existing XtremIO configuration?

- A. HTTP GATHER
- B. HTTP RETRIEVE
- C. HTTP POST
- D. HTTP GET

Answer: D ([LEAVE A REPLY](#))

NEW QUESTION: 38

A systems administrator is installing a new Microsoft Windows 2012 host and has granted access to a 2 TB LUN from XtremIO. Quick formatting of the XtremIO LUN takes much longer than expected.

What is causing this delay in the formatting process?

- A. UNMAP is disabled
- B. UNMAP is enabled
- C. LBA Block size is set to 4 kB
- D. VAAI is disabled

Answer: B ([LEAVE A REPLY](#))

The delay in the quick formatting process of a 2 TB LUN from an XtremIO storage array when installing a new Microsoft Windows 2012 host is likely caused by the UNMAP feature being enabled. The UNMAP command is part of the SCSI thin provisioning set, which allows the host to inform the storage array which blocks are no longer in use and can be reclaimed. When UNMAP is enabled, the quick format process may take longer because the storage array needs to process these UNMAP commands and perform the necessary space reclamation tasks¹.

It's important to note that while UNMAP can improve storage efficiency, it can also introduce overhead during operations like formatting, which can lead to delays. For detailed procedures and best practices, it is recommended to consult the Official Dell XtremIO Deploy Achievement document or reach out to Dell support for the most accurate guidance.

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