

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

Shared by Carrillo on 04-10-2024

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Question 1

Question Type: MultipleChoice

On an XtremIO cluster that is encrypted, where is the encryption key generated?

Options:

- A- AK
- B- SED
- C- WebUI
- D- MEK

Answer:

B

Explanation:

In an XtremIO cluster that is encrypted, the encryption key is generated within the Self-Encrypting Drives (SEDs). The SEDs are responsible for encrypting and decrypting the data at rest without any performance overhead. The encryption process is transparent to

the user and is managed within the drive itself. The keys are generated and stored securely within the SEDs to ensure that data cannot be accessed without proper authorization.

[Dell EMC Data Domain Encryption - Frequently Asked Questions1.](#)

[Policy Files and Default Encryption Keys in Dell Encryption2.](#)

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Question 2

Question Type: MultipleChoice

What is an accurate statement with regards to restoring data to a production volume at a later time using XVC?

Options:

- A-** There is no need to unmount a production volume before it can be restored
- B-** Customer can restore from a read write repurpose copy
- C-** Restore option is presented only from a read only copy

D- Restore operation takes longer than snap shot creation time

Answer:

A

Explanation:

Using XtremIO Virtual Copies (XVC), data can be restored to a production volume without the need to unmount it first. This feature allows for greater flexibility and efficiency in managing data restoration processes. The XVC technology enables the creation of space-efficient snapshots and copies of volumes that can be used for various purposes, including data restoration¹.

The XtremIO Snapshots (XVC) Inquiries on Dell Technologies Community Forum provides insights into the capabilities of XVC, including the ability to restore data without unmounting the production volume¹.

Additional information on the functionality and usage of XVC can be found in the XtremIO Host Configuration Guide².

Question 3

Question Type: MultipleChoice

Which host operating systems does the Live Optics Collector run on?

Options:

- A- Windows and Linux
- B- Windows, Linux, and Solaris
- C- Windows, Linux, and KVM
- D- Windows, Linux, Solaris, and HPUX

Answer:

A

Explanation:

The Live Optics Collector, which is used for profiling several hardware storage arrays including the Dell XtremIO family of all-flash arrays, can run on any host with IP connectivity to the storage array being profiled. The supported operating systems for the Live Optics Collector are Windows and Linux. This is based on the information provided by the Live Optics support documentation, which outlines the process to produce an XtremIO array storage profile¹.

The Live Optics support documentation provides detailed instructions on how to launch and run the Live Optics Collector, which includes the supported operating systems¹.

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Question 4

Question Type: MultipleChoice

Which disk format should be used for ESXi Disks provisioned by XtremIO?

Options:

- A- Thin
- B- Thick
- C- Zeroed thick
- D- Eager zeroed thick

Answer:

D

Explanation:

For ESXi disks provisioned by XtremIO, the recommended disk format is 'Eager Zeroed Thick'. This format is preferred because it allocates all the space required for the disk at the time of creation and zeroes out any previous data on the physical media. Compared to other formats, 'Eager Zeroed Thick' provides better performance due to the pre-zeroing of the disk space, which helps in avoiding any latency that might occur during write operations as there is no need to zero out blocks before writing new data.

While the specific Dell XtremIO Design document was not available, the general best practice for high-performance storage solutions like XtremIO is to use 'Eager Zeroed Thick' provisioning for VMs running on VMware ESXi to ensure optimal performance¹.

Additional information on disk provisioning and best practices can be found in VMware's official documentation and Dell EMC's storage configuration guides².

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Question 5

Question Type: MultipleChoice

What is an example of a Decision Support Systems (DSS) workload?

Options:

- A- Data Warehouse
- B- Online banking applications
- C- Order Entry applications
- D- Airline reservation systems

Answer:

A

Explanation:

Explore

A Decision Support System (DSS) is a computer-based tool designed to aid individuals and organizations in making informed decisions. It integrates data, models, and analytical tools to solve complex problems and support strategic planning. A DSS is particularly effective in handling large volumes of data and applying sophisticated algorithms to generate insights that guide effective choices¹.

A Data Warehouse is an example of a DSS workload because it is a centralized repository for storing large amounts of data from multiple sources. Its primary purpose is to facilitate reporting and analysis¹. Data Warehouses are designed to perform queries and analysis on historical data and are an integral part of business intelligence that supports decision-making processes.

A comprehensive explanation of what constitutes a DSS and its applications can be found in various resources, including those that define a Data Warehouse as a key component of DSS¹.

The "Introduction to XtremIO X2 Storage Array" document by Dell Technologies provides insights into the system features that support DSS workloads like Data Warehouses2.

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Question 6

Question Type: MultipleChoice

Which values are required to enter a generic workload into the XtremIO Sizing Tool?

Options:

- A- Bandwidth, I/O size, and latency
- B- IOPs, bandwidth, and latency
- C- Capacity, IOPs, and Read ratio
- D- IOPs, I/O size, and bandwidth

Answer:

D

Explanation:

When entering a generic workload into the XtremIO Sizing Tool, the required values are IOPs, I/O size, and bandwidth. These parameters are essential for accurately sizing the storage system to ensure it can handle the expected workload. IOPs (Input/Output Operations Per Second) measure the number of read/write operations the storage system can perform in a second. I/O size refers to the size of each read/write operation, and bandwidth is the total amount of data that can be transferred in a given time frame.

The XtremIO Performance Documents discuss different workload testing parameters, including I/O size and limits, which are relevant to sizing the array¹.

The Dell XtremIO Design Achievement document outlines the critical components and best practices for designing solutions with XtremIO and X2 storage systems, which would include considerations for workload sizing².

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Question 7

Question Type: MultipleChoice

What is true about the flow control feature when configuring the iSCSI SAN from the host to the XtremIO cluster?

Options:

- A- Enable flow control features on the server, switch(s) and array ports
- B- Disable flow control features on the server, switch(s) and array ports
- C- Disable flow control features on the server and array ports only
- D- Enable flow control features on the server and array ports only

Answer:

B

Explanation:

When configuring the iSCSI SAN from the host to the XtremIO cluster, it is recommended to disable flow control features on the server, switches, and array ports. Flow control can cause a performance impact by serializing the flow for iSCSI ports, which is not desirable in high-performance storage solutions like XtremIO1. Disabling flow control ensures that the storage array operates without the limitations that flow control can impose, thus maintaining optimal performance.

Dell EMC Switch Configuration Guide for iSCSI and Software-Defined Storage provides guidelines for the design and configuration of storage networks for iSCSI SAN, which includes recommendations on flow control settings2.

Community discussions on Dell Technologies website where it is mentioned that the latest best practices advise against enabling flow control for iSCSI with XtremIO, as it limits performance1.

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