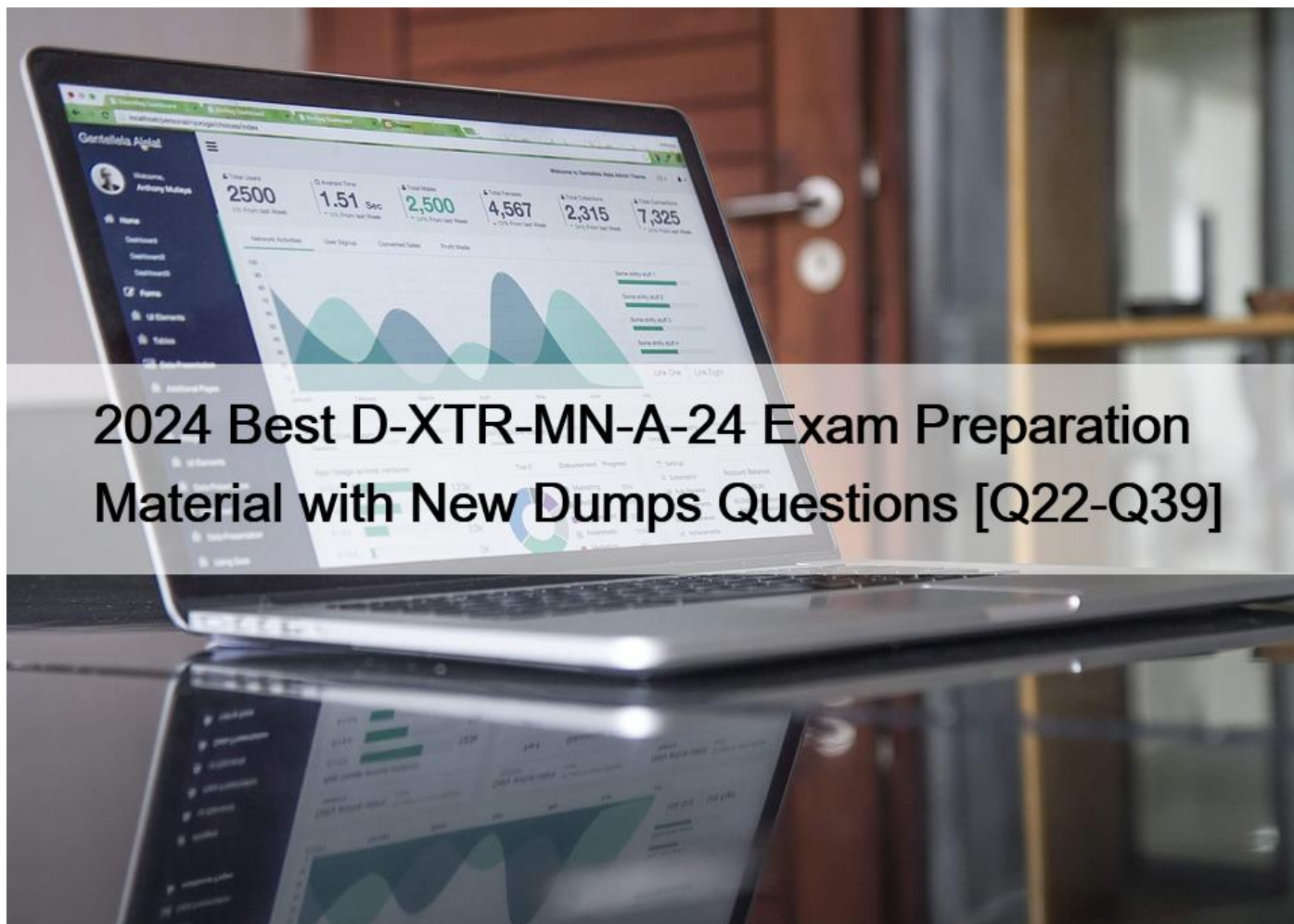


2024 Best D-XTR-MN-A-24 Exam Preparation Material with New Dumps Questions [Q22-Q39]



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EMC D-XTR-MN-A-24 Exam Syllabus Topics:

TopicDetailsTopic 1- XtremIO and X2 Installation: This section is tailored for storage implementation specialists and field engineers. It encompasses installation resource requirements, component racking for both single and dispersed cluster setups and detailed cabling procedures for single and multi X-Brick clusters.Topic 2- Overview of XtremIO and X2 Features: For storage administrators and technical specialists, this section of the exam covers the comparison of XtremIO and X2 capabilities, GUI differences between the two systems with a focus on X2 updates, and the identification of XtremIO and X2 models. This foundational knowledge is crucial for understanding these storage solutions' core features and distinctions.Topic 3 - XtremIO and X2 Initial Configuration: System administrators and configuration specialists will focus on this section, which covers the deployment and options for the XtremIO Management Server (XMS). It also includes Easy-CLI installation options, XtremApp installation, cluster installation, and verification, and the configuration of ESRS and ESRS VE.Topic 4- XtremIO and X2 Hardware Fundamentals: Storage engineers and system architects will find this section particularly relevant. It delves into hardware design descriptions, IB switch options, and BBU options including SuperCap. The exam also covers

DAE capacities and XtremIO X2 configurations and port management, providing a comprehensive understanding of the hardware components and their functionalities. Topic 5- XtremIO and X2 Maintenance: The largest section of the exam is dedicated to maintenance, targeting storage maintenance technicians and support personnel. It covers resource identification, power procedures, and methods for determining cluster health state and failure tolerances for components. The section also includes cluster IP address modification and Storage Controller FRU, providing a comprehensive overview of ongoing maintenance and troubleshooting procedures.

Q22. On XtremIO X1, what is required before the cluster will start?

- * BBU's must be charged to at least 50%
- * At least one BBU has to be online
- * BBU's must be charged to at least 70%
- * End of Life BBU's must be replaced

Before an XtremIO X1 cluster can start, it is required that the Battery Backup Units (BBU's) are charged to at least 70%. This ensures that there is sufficient power reserve to maintain data integrity and allow for safe shutdown procedures in case of an unexpected power loss. The BBU's provide power to the Storage Processors and other critical components during an outage, allowing them to complete any in-progress operations and commit data to SSDs.

The startup process checks the BBU charge level and will only proceed if the minimum charge requirement is met. This is a safety feature designed to protect the system and the data it holds. If the BBU's are not adequately charged, the system will not start, preventing potential data loss or corruption that could occur if the system were to lose power without the ability to properly shut down.

Q23. Where can the Technician Advisor be found?

- * support.emc.com
- * XtremIO GUI
- * SolVe Desktop
- * On the XMS

The Technician Advisor can be found on SolVe Desktop. SolVe Desktop is a comprehensive tool provided by Dell EMC that includes installation, maintenance, and troubleshooting procedures for various Dell EMC products, including XtremIO. It is an essential resource for technicians working with these systems.

Q24. What is indicated when the XtremIO X2 NVRAM status LED is flashing red at one second intervals?

- * Restore is in progress
- * Backup is in progress
- * Firmware or driver is loaded
- * Uncorrectable error

When the NVRAM status LED on an XtremIO X2 is flashing red at one-second intervals, it indicates an uncorrectable error. This is a critical status that typically signifies a hardware malfunction or failure within the NVRAM module, which requires immediate attention. NVRAM, or Non-Volatile Random Access Memory, is crucial for retaining data integrity during power losses or system crashes.

The steps to address this issue usually involve:

Investigating the system logs to identify the specific nature of the error.

Contacting Dell EMC support for guidance on diagnosing and resolving the issue.

Following the recommended procedures for troubleshooting or replacing the affected NVRAM module, as per the support

team's instructions.

It is important to resolve such errors promptly to prevent potential data loss and to maintain the overall health and performance of the storage system.

Q25. Where can the XtremIO power requirements be found?

- * XtremIO Storage Array Software Installation and Upgrade Guide
- * XtremIO Storage Array Hardware Installation and Upgrade Guide
- * XtremIO Storage Array Site Preparation Guide
- * XtremIO Storage Array Pre-Installation Checklist

The XtremIO Storage Array Site Preparation Guide contains the power requirements for the XtremIO system. This guide includes detailed specifications for power consumption, electrical requirements, and other environmental factors necessary for proper installation and operation.

Q26. Refer to the Exhibit.



Based on the exhibit, which rows of drives are used for DPG-2 in an XtremIO-X2 DAE?

- * Row 3 and Row 4
- * Row 1 and Row 2
- * Row 1 and Row 4
- * Row 2 and Row 3

In Dell XtremIO X2 arrays, the Disk Protection Groups (DPGs) are organized in such a way that each DPG spans multiple rows of drives. Specifically, DPG-2 in an XtremIO-X2 DAE (Disk Array Enclosure) uses the drives in Row 1 and Row 2. This configuration is designed to ensure redundancy and fault tolerance. The drives in these rows collectively form the DPG, which is responsible for data protection and performance optimization.

Q27. After changing the IP addresses of the Storage Controllers, which XMCLI command is used to verify that those addresses are correct?

- * show-xms-info
- * pm-query-storage-controller
- * show-storage-controllers
- * show-clusters-info

The show-storage-controllers command is used in XMCLI to verify the IP addresses of the Storage Controllers after they have been changed. This command provides detailed information about the status and configuration of the storage controllers, including their IP addresses.

Q28. Why is an extra rack unit space used between X-Bricks when installing a multi X-Brick XtremIO X2?

- * Manage the air flow between Storage Controllers
- * Accommodate the cable management duct
- * Provide space for an additional XMS
- * Accommodate the routing for InfiniBand cables

An extra rack unit space is used between X-Bricks when installing a multi X-Brick XtremIO X2 to accommodate the cable management duct. This space is essential for organizing and managing the cables, ensuring proper airflow, and making maintenance tasks easier.

Q29. If an XtremIO X2 array experiences a power failure, which components will protect the journal data?

- * BBU and NVRAM
- * NVRAM and local drive
- * Supercapacitor and NVRAM
- * BBU and Supercapacitor

In the event of a power failure, the XtremIO X2 array is designed to protect the journal data using a combination of Supercapacitor and NVRAM. The NVRAM (Non-Volatile Random Access Memory) ensures that the data remains intact without power, while the supercapacitor provides the necessary energy to maintain the power to the NVRAM during the outage. This design allows the XtremIO X2 array to preserve the integrity of the journal data until normal power can be restored.

Q30. A customer has decided to deploy a virtual XMS server. Which file name extension does the template use to deploy the server?

- * ovf
- * ova
- * tar
- * gz

When deploying a virtual XtremIO Management Server (XMS), the template uses the file name extension .ova. This is a standard format for virtual appliances, which are pre-configured virtual machines that can be imported and run on various virtualization platforms. The .ova file extension stands for Open Virtual Appliance (or Application) and is typically used for packaging and distributing software to be run in virtual machines.

The deployment process using an .ova file typically involves the following steps:

Download the .ova file from the official source or portal.

Import the .ova file into the virtualization platform (such as VMware vSphere or Oracle VM VirtualBox).

Follow the prompts to configure the virtual machine settings as needed.

Once the import is complete, power on the virtual machine to begin the initial setup and configuration of the virtual XMS server.

This information is consistent with the practices outlined in the Official Dell XtremIO Maintenance Achievement document, ensuring that the deployment of the virtual XMS server aligns with Dell's recommended procedures.

Q31. What is the correct sequence of steps to perform a planned shutdown of an XtremIO X2?

Steps

Answer Area

- Verify the cluster PSNT and health
- Disable notifications
- Stop the cluster service
- Power off the hardware
- Verify no host I/O



Answer Area

- Verify no host I/O
- Verify the cluster PSNT and health
- Disable notifications
- Stop the cluster service
- Power off the hardware

1 – Verify no host I/O

2 – Verify the cluster PSNT and health

3 – Disable notifications

4 – Stop the cluster service

5 – Power off the hardware

Q32. What is the correct sequence of steps to install a virtual XMS prior to creating the cluster on an XtremIO X2?

Steps

Answer Area

- Deploy the OVF Template
- Configure the XMS
- Transfer the Installation Package to the XMS Server
- Install only the XMS
- Display the Installation Package on the Storage Controller



Answer Area

Deploy the OVF Template

Configure the XMS

Transfer the Installation Package to the XMS Server

Install only the XMS

Display the Installation Package on the Storage Controller

1 – Deploy the OVF Template

2 – Configure the XMS

3 – Transfer the Installation Package to the XMS Server

4 – Install only the XMS

5 – Display the Installation Package on the Storage Controller

Q33. How many connectors, and of which type(s), are used on the Eaton 1550 Evolution BBU?

- * 2 DB9s
- * 1 DB9 and 1 RJ11
- * 1 DB9 and 1 RJ50
- * 1 DB9 and 1 RJ45

The Eaton 1550 Evolution BBU (Battery Backup Unit) uses 1 DB9 and 1 RJ50 connector. These connectors are used for communication and management purposes, ensuring that the BBU can interface correctly with other components of the system.

Q34. Refer to the Exhibit.



The exhibit represents an XtremIO X2 Storage Controller configured with Fibre Channel ports. Which port type is highlighted in the exhibit?

- * iSCSI
- * MGMT
- * IPMI
- * FC

The highlighted port in the exhibit is a Fibre Channel (FC) port. This port type is used for high-speed data transfer between the storage controller and connected devices or networks. Fibre Channel is a technology known for its reliability and speed, making it

suitable for storage area networks (SANs). The identification of the FC port is based on recognizing the physical characteristics of FC ports, such as their shape and typical placement on storage devices, as well as knowledge about Dell's XtremIO systems; configuration options1.

Q35. When comparing XtremIO X1 to XtremIO X2, how much memory is installed in a Storage Controller that has a DAE attached with 400 GB SSDs?

- * X1: 256 GB; X2: 384 GB
- * X1: 256 GB; X2: 512 GB
- * X1: 384 GB; X2: 384 GB
- * X1: 512 GB; X2: 1024 GB

When comparing XtremIO X1 to XtremIO X2, the amount of memory installed in a Storage Controller with a DAE attached with 400 GB SSDs differs. For the X1, it is 256 GB, while for the X2, it is 512 GB. This increase in memory in the X2 model supports higher performance and improved handling of data operations.

Q36. What is the maximum mixed read/write IOPS rate achievable in a two X-Brick XtremIO X2 array?

- * 1000 K
- * 600 K
- * 500 K
- * 300 K

This performance metric is derived from the system's ability to deliver linear scalability, meaning that two X-Bricks can deliver twice the IOPS of a single X-Brick configuration2.

The calculation for this is based on the performance of a single X-Brick, which can achieve up to 300,000 IOPS under the same workload conditions. Therefore, with two X-Bricks, the system can achieve double that amount, resulting in 600,000 IOPS1.

This information is crucial for planning and sizing purposes, ensuring that the storage array meets the performance requirements of the applications it supports2.

Q37. What is a feature of the XtremIO storage array?

- * Inline compression
- * Post process deduplication
- * Synchronous replication
- * Disk sparing

A key feature of the XtremIO storage array is inline compression. This feature allows data to be compressed in real-time as it is written to the storage system, which helps to reduce storage footprint and improve storage efficiency without impacting performance.

Q38. Which ports need to be open between the XMS and X1-SC1 to successfully operate Technician Advisor on an XtremIO X2?

- * TCP ports 22 and 443
- * UDP ports 80 and 442
- * TCP ports 80 and 443
- * UDP ports 22 and 442

To successfully operate Technician Advisor on an XtremIO X2, TCP ports 80 and 443 need to be open between the XMS (XtremIO Management Server) and X1-SC1 (Storage Controller). These ports are used for HTTP and HTTPS communication, respectively, allowing for secure management and operation of the storage system.

Q39. What are field replaceable on an XtremIO X1 Storage Controller?

- * Entire component and SSD
- * SSD and RAM
- * Entire component and PSU

* PSU and SSD

The field replaceable units (FRUs) on an XtremIO X1 Storage Controller include the entire component and the Power Supply Unit (PSU). This information is verified as per the Official Dell XtremIO Maintenance Achievement document, which outlines the FRU replacement procedures for XtremIO products1.

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