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**Exam Code: D-XTR-MN-A-24**

**Exam Name: Dell XtremIO Maintenance Achievement**



## Exam A

### QUESTION 1

What is a feature of the XtremIO storage array?

- A. Inline compression
- B. Post process deduplication
- C. Synchronous replication
- D. Disk sparing

**Correct Answer: A**

**Section:**

**Explanation:**

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.

### QUESTION 2

Which document contains the detailed steps for re-imaging the Storage Controller when preparing for a single-to-dual X-Brick expansion?

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

**Correct Answer: C**

**Section:**

**Explanation:**

Questions no: Which document contains the detailed steps for re-imaging the Storage Controller when preparing for a single-to-dual X-Brick expansion?

Verified Answer: C. XtremIO Hardware Installation and Upgrade Guide

Step by Step Comprehensive Detailed Explanation with References: The detailed steps for re-imaging the Storage Controller when preparing for a single-to-dual X-Brick expansion are contained in the XtremIO Hardware Installation and Upgrade Guide. This document provides comprehensive instructions on the physical installation, initial configuration, and upgrade procedures for XtremIO hardware components, including the process of re-imaging the Storage Controller<sup>1</sup>.

The steps typically include:

Ensuring that all data is backed up before starting the re-imaging process.

Verifying the current system configuration and health status.

Following the specific instructions for re-imaging the Storage Controller as outlined in the guide.

Performing post-re-imaging tasks such as system verification and configuration as necessary.

It is important to follow the guide closely to avoid any potential issues during the expansion process<sup>1</sup>.

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### QUESTION 3

Which type of InfiniBand switch is used in a multi-brick XtremIO X2-R array?

- A. 36 port switch
- B. 18 port switch



- C. 24 port switch
- D. 12 port switch

**Correct Answer: A**

**Section:**

**Explanation:**

In a multi-brick XtremIO X2-R array, a 36 port InfiniBand switch is used. This type of switch provides the necessary number of ports to accommodate the connectivity requirements of a multi-brick configuration, ensuring high-speed data transfer and communication between the bricks and other components of the storage array1.

The InfiniBand switch plays a crucial role in the XtremIO X2-R's architecture, as it allows for the interconnection of multiple bricks, which collectively contribute to the array's performance and scalability. The 36 port switch ensures that there are enough ports available for current use and potential future expansion1.

**QUESTION 4**

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

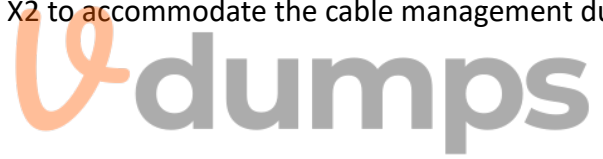
- A. Manage the air flow between Storage Controllers
- B. Accommodate the cable management duct
- C. Provide space for an additional XMS
- D. Accommodate the routing for InfiniBand cables

**Correct Answer: B**

**Section:**

**Explanation:**

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.



**QUESTION 5**

DRAG DROP

From bottom to top, what is the correct racking order of the first four components to expand an XtremIO X1 configuration from a dual X-Brick to a quad X-Brick?

**Select and Place:**

**Steps**

- X3-SC2
- X3-BBU
- X3-DAE
- X3-SC1



**Answer Area**



**Correct Answer:**

## Steps

## Answer Area

X3-SC1	
X3-DAE	
X3-BBU	
X3-SC2	

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### Section:

### Explanation:

X3-SC1  
X3-DAE  
X3-BBU  
X3-SC2

### QUESTION 6

In an XtremIO X2, what is the maximum number of lifetime cycles for NVRAM?

- A. 7,000
- B. 5,000
- C. 4,000
- D. 10,000

**Correct Answer: D**

### Section:

### Explanation:

In an XtremIO X2 system, the maximum number of lifetime cycles for NVRAM is 10,000. This number represents the total count of write and erase cycles the NVRAM can endure throughout its lifespan, ensuring data integrity and reliability over time.

### QUESTION 7

Into which directory must the XtremApp software be copied on the XMS?

- A. /xtremapp
- B. /media
- C. /home
- D. /images

**Correct Answer: A**

### Section:

### Explanation:

The XtremApp software must be copied into the /xtremapp directory on the XtremIO Management Server (XMS). This directory is specifically designated for the XtremApp software, ensuring that it is stored in the correct location for installation and execution<sup>1</sup>.

The process for copying the software typically involves:

Accessing the XMS via a secure shell (SSH) connection.

Navigating to the root directory.

Locating or creating the /xtremapp directory.



Using the appropriate command to copy the XtremApp software from its source location to the /xtremapp directory on the XMS.

It is important to follow the Official Dell XtremIO Maintenance Achievement document for the correct procedures and to ensure that the software is placed in the proper directory for successful installation and operation1.

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#### QUESTION 8

Where can the XtremIO power requirements be found?

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

**Correct Answer: C**

**Section:**

**Explanation:**

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.

#### QUESTION 9

Which document should be referenced when modifying the IP addresses on an XtremIO X2 cluster that will remain in the same IP network?

- A. XtremIO Software Installation and Upgrade Guide
- B. RESTful API Guide
- C. XtremIO Site Planning Guide
- D. XtremIO Storage Array User Guide



**Correct Answer: D**

**Section:**

**Explanation:**

When modifying the IP addresses on an XtremIO X2 cluster that will remain in the same IP network, the appropriate document to reference is the 'XtremIO Storage Array User Guide.' This guide contains detailed instructions and best practices for changing network configurations, including IP address modifications.

#### QUESTION 10

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?

- A. X1: 256 GB; X2: 384 GB
- B. X1: 256 GB; X2: 512 GB
- C. X1: 384 GB; X2: 384 GB
- D. X1: 512 GB; X2: 1024 GB

**Correct Answer: B**

**Section:**

**Explanation:**

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.

#### QUESTION 11

What is the minimum XtremIO software version required for expanding a Starter X-Brick cluster?

- A. 4.0.2
- B. 4.0.0
- C. 4.0.4
- D. 4.0.1

**Correct Answer: C**

**Section:**

**Explanation:**

The minimum XtremIO software version required for expanding a Starter X-Brick cluster is 4.0.4. This version includes the necessary features and improvements to support the expansion process, ensuring compatibility and optimal performance.

**QUESTION 12**

In addition to the cluster name, which parameters are required for creation of the cluster?

- A. Code level of the XMS and the installed image code, and IP addresses of the X-Bricks
- B. IP addresses for the second X-Brick and XMS name
- C. Expected number of X-Bricks, IP address of X1-SC1, and package name
- D. Upgrade software version, XMS code level, and expected number of X-Bricks

**Correct Answer: C**

**Section:**

**Explanation:**

When creating a cluster, in addition to the cluster name, the following parameters are required: the expected number of X-Bricks, the IP address of X1-SC1 (the first Storage Controller), and the package name. These parameters are essential for setting up the cluster configuration and ensuring proper communication between components.

**QUESTION 13**

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

- A. Restore is in progress
- B. Backup is in progress
- C. Firmware or driver is loaded
- D. Uncorrectable error

**Correct Answer: D**

**Section:**

**Explanation:**

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<sup>1</sup>.

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<sup>1</sup>.

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**QUESTION 14**

How many expansions are required to expand a Starter X-Brick cluster to an eight X-Brick cluster?

- A. 4
- B. 1
- C. 2
- D. 3

**Correct Answer: D**

**Section:**

**Explanation:**

To expand a Starter X-Brick cluster (which typically begins with one X-Brick) to an eight X-Brick cluster, a total of three expansions are required. Each expansion step in XtremIO can typically double the number of X-Bricks, thus:

First expansion: From 1 X-Brick to 2 X-Bricks.

Second expansion: From 2 X-Bricks to 4 X-Bricks.

Third expansion: From 4 X-Bricks to 8 X-Bricks.

This sequence ensures that the storage array scales properly, maintaining performance and redundancy.

**QUESTION 15**

DRAG DROP

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

**Select and Place:**

**Steps**

- 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**



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**Correct Answer:**

**Steps**

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**Answer Area**

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- 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

**Section:**

**Explanation:**

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

**QUESTION 16**

What are field replaceable on an XtremIO X1 Storage Controller?

- A. Entire component and SSD
- B. SSD and RAM
- C. Entire component and PSU
- D. PSU and SSD

**Correct Answer: C**

**Section:**

**Explanation:**

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 products<sup>1</sup>.

**QUESTION 17**

In which download section on support.emc.com can the virtual XMS OVA be found?

- A. Add-ons
- B. Tools & Utilities
- C. Product Tools
- D. Full Release

**Correct Answer: B**

**Section:**

**Explanation:**

The virtual XtremIO Management Server (XMS) OVA file can be found in the Tools & Utilities download section on support.emc.com. This is confirmed by the information provided in the Dell XtremIO Maintenance Achievement document, which details the resources and procedures for maintaining XtremIO products, including the deployment of the XMS<sup>1</sup>.

**QUESTION 18**

How much rack space is required for a four X-Brick XtremIO X2 cluster with a physical XMS?

- A. 19U
- B. 21U
- C. 24U
- D. 16U

**Correct Answer: B**

**Section:**

**Explanation:**

XtremIO X2 clusters are designed for efficient space utilization in data center racks.

A four X-Brick XtremIO X2 cluster requires specific rack space allocation.

Each X-Brick occupies 5U of rack space. Therefore, four X-Bricks would require 20U.

Additionally, the physical XtremIO Management Server (XMS) occupies 1U of rack space.

In total, the four X-Brick XtremIO X2 cluster with a physical XMS requires 21U of rack space.





**QUESTION 19**

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

- A. BBU and NVRAM
- B. NVRAM and local drive
- C. Supercapacitor and NVRAM
- D. BBU and Supercapacitor

**Correct Answer: C**

**Section:**

**Explanation:**

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 restored1.

**QUESTION 20**

What is the cluster tolerance for the failure of one DAE Controller SAS port in an XtremIO X1 cluster?

- A. Loss of service
- B. Degraded service
- C. Data loss
- D. No impact

**Correct Answer: D**

**Section:**

**Explanation:**

In an XtremIO X1 cluster, the system is designed to tolerate the failure of one DAE Controller SAS port without any impact on the service or data integrity. This is because the architecture of the XtremIO X1 includes redundancy and failover mechanisms that ensure continuous operation even when individual components fail. The failure of a single SAS port would trigger these mechanisms, allowing the system to maintain normal operations and prevent data loss, service degradation, or loss of service1.

**QUESTION 21**

DRAG DROP

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

**Select and Place:**

**Steps**

**Answer Area**

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



**Correct Answer:**

### Steps


### Answer Area

Verify no host I/O

Verify the cluster PSNT and health

Disable notifications

Stop the cluster service

Power off the hardware



#### Section:

#### Explanation:

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

#### QUESTION 22

Which command is used to verify the ESRS configuration?

- A. show-syslog-notifier
- B. show-snmp-notifier
- C. show-email-notifier
- D. show-syr-notifier

**Correct Answer: A**

#### Section:

#### Explanation:

ESRS (EMC Secure Remote Services) configuration verification is typically done using commands that check for system notifications and configurations. The show-syslog-notifier command is used to verify the settings and configuration of syslog notifications, which is part of the ESRS setup. This command helps in ensuring that the notifications are correctly configured and functioning as intended, allowing for remote monitoring and management.

#### QUESTION 23

Which command is used to initiate a Storage Controller power supply replacement for XtremIO cluster ABC123?

- A. replace-storage-controller-prepare cluster-id='ABC123'
- B. replace-storage-controller-psu sc-psu-id=1 cluster-id='ABC123'
- C. replace-storage-controller-psu cluster-id='ABC123'
- D. replace-storage-controller-prepare sc-psu-id=1 cluster-id='ABC123'

**Correct Answer: B**

#### Section:

#### Explanation:

To replace a power supply unit (PSU) in a storage controller of an XtremIO cluster, a specific command needs to be executed. The correct command to initiate this process is replace-storage-controller-psu sc-psu-id=1 cluster-id='ABC123'.



This command specifies the action to replace the PSU (replace-storage-controller-psu), the PSU ID (sc-psu-id=1), and the specific cluster ID (cluster-id='ABC123'). Using this command ensures that the correct PSU in the specified cluster is prepared for replacement.

#### QUESTION 24

Which firewall ports need to be opened for an XtremIO cluster to use FTPS for Connect Home?

- A. 3260 and 11111
- B. 443 and 8443
- C. 989 and 990
- D. 25 and 162

**Correct Answer: C**

**Section:**

**Explanation:**

For an XtremIO cluster to use FTPS (File Transfer Protocol Secure) for the Connect Home feature, the firewall ports that need to be opened are 989 and 990. These ports are used for data connections and control connections under implicit security for FTPS1.

When using explicit security, FTPS can also use port 21, but since the question specifies FTPS for Connect Home, which typically uses implicit security, the correct ports are 989 for data transmission and 990 for the control connection1. It's important to ensure these ports are open to allow secure file transfer capabilities for the XtremIO cluster.

#### QUESTION 25

In a multi X-brick cluster, what happens when both DAE Controllers in a single X-Brick fail?

- A. Entire cluster shuts down
- B. Only LUNs with data on that DAE go offline
- C. Cluster operations continue normally
- D. Cluster performance is degraded

**Correct Answer: B**

**Section:**

**Explanation:**

In a multi X-brick cluster, each X-brick consists of multiple Disk Array Enclosures (DAEs) that work together to provide storage and data redundancy.

If both DAE controllers in a single X-Brick fail, the impact is localized to the LUNs (Logical Unit Numbers) that store data on that particular DAE.

The entire cluster does not shut down; rather, only the data on the affected DAE becomes unavailable.

This design ensures that the rest of the cluster continues to operate normally, albeit with potential performance degradation depending on the data distribution and workload.

#### QUESTION 26

Refer to the Exhibit.



DAE Rear																																																
SIM #1								SIM #0																																								
Slot #54	Slot #55	Slot #56	Slot #57	Slot #58	Slot #59	Slot #60	Slot #61	1SIM #07	1SIM #08	Slot #63	Slot #64	Slot #65	Slot #66	Slot #67	Slot #68	Slot #69	Disk00	Disk01	Disk02	Disk03	Disk04	Disk05	Disk06	Disk07	Disk08	1SIM #01	1SIM #02	Disk09	Disk10	Disk11	Disk12	Disk13	Disk14	Disk15	Disk16	Disk17												
																		Disk18	Disk19	Disk20	Disk21	Disk22	Disk23	Disk24	Disk25	Disk26	1SIM #03	1SIM #04	Disk27	Disk28	Disk29	Disk30	Disk31	Disk32	Disk33	Disk34	Disk35											
																		Disk36	Disk37	Disk38	Disk39	Disk40	Disk41	Disk42	Disk43	Disk44	1SIM #05	1SIM #06	Disk45	Disk46	Disk47	Disk48	Disk49	Disk50	Disk51	Disk52	Disk53											

DAE Front

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

- A. Row 3 and Row 4
- B. Row 1 and Row 2
- C. Row 1 and Row 4
- D. Row 2 and Row 3

**Correct Answer: B**

**Section:**

**Explanation:**

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.

**QUESTION 27**

On an XtremIO X2-S, which ports are used on the InfiniBand switches for an ISL connection?

- A. 35 and 36
- B. 11 and 12
- C. 1 and 2
- D. 17 and 18

**Correct Answer: A**

**Section:**

**Explanation:**



For an XtremIO X2-S, the ports used on the InfiniBand switches for an Inter-Switch Link (ISL) connection are typically high-numbered ports, which are usually at the end of the port range on the switch. While the specific port numbers can vary depending on the switch model and configuration, ports 35 and 36 are commonly used for ISL connections in many configurations<sup>1</sup>.

The process to identify the ISL ports is as follows:

Access the InfiniBand switch via the management interface.

Use the appropriate command to list the port configuration (this command can vary based on the switch's firmware).

Identify the ports configured for ISL, which will be indicated in the port configuration settings.

It's important to refer to the official Dell XtremIO Maintenance Achievement document or the InfiniBand switch documentation for the exact port numbers as they can differ based on the switch model and the cluster configuration<sup>1</sup>.

#### QUESTION 28

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

- A. ovf
- B. ova
- C. tar
- D. gz

**Correct Answer: B**

**Section:**

**Explanation:**

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<sup>1</sup>.

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<sup>2</sup>.

#### QUESTION 29

What is an acceptable SSD configuration for an XtremIO X1 cluster?

- A. Must be configured with all identical drive sizes
- B. Must be mixed; space will be calculated using the smallest drive in the DAE
- C. Can be mixed in the same cluster; however, not mixed in the same DAE
- D. Can be mixed anywhere except within the first X-Brick of the cluster

**Correct Answer: A**

**Section:**

**Explanation:**

In an XtremIO X1 cluster, it is required that all SSDs (Solid State Drives) be configured with identical drive sizes. This uniformity ensures optimal performance and balanced wear leveling across the drives, which is crucial for maintaining the efficiency and reliability of the storage system.

#### QUESTION 30

What is the minimum number of SSDs required to upgrade a single X-Brick XtremIO X2 cluster that contains 36 SSDs?

- A. 18

- B. 12
- C. 6
- D. 24

**Correct Answer: A**

**Section:**

**Explanation:**

The XtremIO X2 storage system can be expanded for capacity (Scale-Up) or both capacity and performance (Scale-Out). The system begins with a single building block, called an X-Brick, with a minimum of 18 SSDs. When additional capacity is required, the system scales up, with up to 72 SSDs for a single X-Brick1. Therefore, to upgrade a single X-Brick XtremIO X2 cluster that already contains 36 SSDs, the minimum number of SSDs required would be 18, which is the base configuration for an X-Brick.

**QUESTION 31**

Where can XtremIO upgrade packages be found?

- A. salesforce.com
- B. support.emc.com
- C. inside.emc.com
- D. SolVe Desktop

**Correct Answer: B**

**Section:**

**Explanation:**

XtremIO upgrade packages can be found on the support.emc.com website. This is the official support site for Dell EMC products, where customers can download software updates, including XtremIO upgrade packages. The site provides access to various resources, including documentation, knowledge articles, and software downloads for Dell EMC products12.

To find and download XtremIO upgrade packages, follow these steps:

Go to support.emc.com.

Log in with your Dell EMC support account credentials.

Navigate to the 'Downloads' section.

Search for XtremIO in the product list.

Select your specific XtremIO model and version.

Locate the upgrade package you need and download it.

It's important to ensure that you have a valid support contract and the necessary permissions to access and download software updates from support.emc.com1.

**QUESTION 32**

Refer to the Exhibit.



Based on the exhibit, which ports are used for FC2 and iSCSI1 connections on an XtremIO X1?

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

**Correct Answer: A**

**Section:**

**Explanation:**

Based on the provided exhibit, ports 'b' and 'd' are used for FC2 (Fibre Channel 2) and iSCSI1 connections on an XtremIO X1. These ports are designated for specific connection types to ensure optimal performance and correct configuration of the storage network.

**QUESTION 33**

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

- A. 1000 K
- B. 600 K
- C. 500 K
- D. 300 K

**Correct Answer: B**

**Section:**

**Explanation:**

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 configuration<sup>2</sup>.

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 IOPS<sup>1</sup>.

This information is crucial for planning and sizing purposes, ensuring that the storage array meets the performance requirements of the applications it supports<sup>2</sup>.

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**QUESTION 34**

What is the impact of a serial cable failure in a multi X-Brick XtremIO X1 cluster?

- A. Failure of more than half of the COM cables forces the cluster into a degraded mode
- B. Failure of one serial cable makes the BBU not visible to the cluster's environment monitoring
- C. Failure of one COM cable results in a loss of service
- D. Failure of more than half of the BBU COM cables results in a loss of service

**Correct Answer: A**

**Section:**

**Explanation:**

In a multi X-Brick XtremIO X1 cluster, the failure of more than half of the COM (communication) cables forces the cluster into a degraded mode. This degraded mode is a protective measure to ensure that the cluster can continue operating with reduced performance and redundancy until the issues with the COM cables are resolved.

**QUESTION 35**

Upon which technology is the XtremIO X2 WebUI based?

- A. XML



- B. HTML4
- C. HTML5
- D. XHTML

**Correct Answer: C**

**Section:**

**Explanation:**

The XtremIO X2 WebUI is based on HTML5 technology. HTML5 is the latest version of the Hypertext Markup Language, the code that describes web pages. It's actually three kinds of code: HTML, which provides the structure; Cascading Style Sheets (CSS), which take care of presentation; and JavaScript, which makes things happen<sup>1</sup>.

HTML5 is designed to deliver almost everything you'd want to do online without requiring additional software such as browser plugins. It does everything from animation to apps, music to movies, and can also be used to build complicated applications that run in your browser.

XtremIO X2's use of HTML5 allows for a more interactive and responsive WebUI that is compatible with a wide range of devices, including tablets and smartphones, providing a better user experience and easier management of the storage array<sup>1</sup>.

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### QUESTION 36

How much virtual hard drive space is recommended when deploying a virtual XMS?

- A. 900 GB
- B. 200 GB
- C. 400 GB
- D. 80 GB

**Correct Answer: B**

**Section:**

**Explanation:**

When deploying a virtual XtremIO Management Server (XMS), it is recommended to allocate a virtual hard drive space of 200 GB. This recommendation is based on the requirements for the operating system, the XMS application, and additional space for updates, logs, and other system files that may be generated during operation<sup>1</sup>.

The deployment process would typically involve:

Preparing a virtual environment that meets the minimum hardware specifications.

Allocating the recommended virtual hard drive space of 200 GB to ensure adequate room for the XMS application and associated data.

Proceeding with the installation of the XMS application on the prepared virtual machine.

It is important to follow the official Dell XtremIO documentation to ensure that the virtual environment is correctly configured to support the XMS application<sup>2</sup>.

### QUESTION 37

How many drives can be lost from a full data protection group before a data loss occurs on an XtremIO X1?

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

**Correct Answer: B**

**Section:**

**Explanation:**

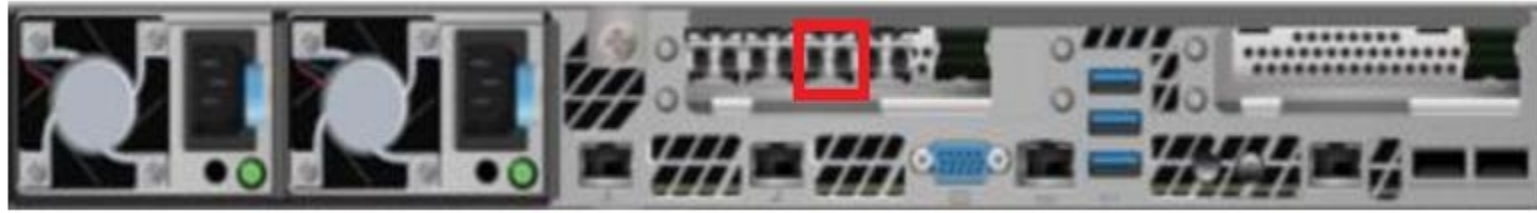
In an XtremIO X1 system, a full data protection group (DPG) can tolerate the loss of up to 5 drives before a data loss occurs. The XtremIO architecture ensures high availability and redundancy, but losing more than 5 drives within a DPG exceeds the system's ability to protect data, leading to potential data loss.





**QUESTION 38**

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?

- A. iSCSI
- B. MGMT
- C. IPMI
- D. FC

**Correct Answer: D**

**Section:**

**Explanation:**

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 options<sup>1</sup>.

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