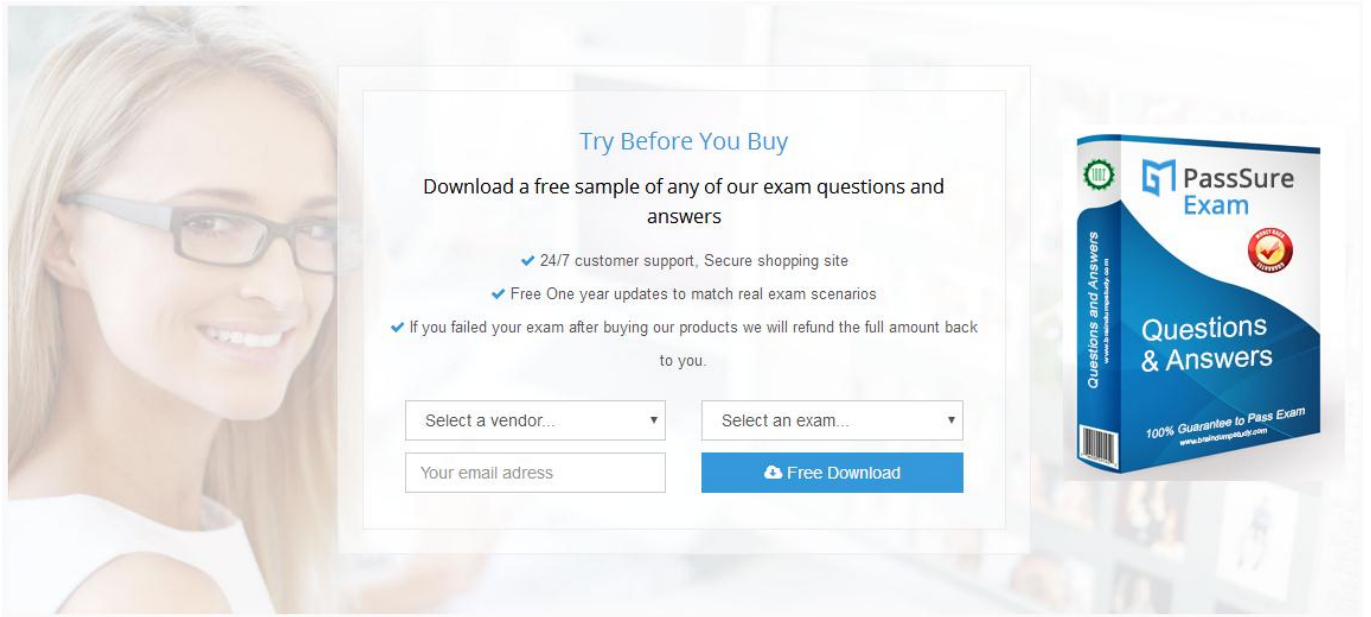


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Exam : **E20-526**

Title : XtremIO Solutions and Design
Specialist Exam for Technolog
y

Vendor : EMC

Version : DEMO

NO.1 A storage administrator wants to re-use some of their XtremIO thin provisioned disks attached to a Microsoft Windows 2012 host.

However, the administrator notices that "Quick Format" of the drives is taking a long time to complete. This has an impact on the overall performance.

What should be recommended to minimize the performance impact?

- A. Disable the I/O elevator feature on the Windows host while formatting
- B. Temporarily disable the UNMAP feature on the Windows host during formatting
- C. Adjust the execution throttle value on the Windows host
- D. Change the disk format to thick provisioned

Answer: B

Explanation:

It is related to TRIM/UNMAP, which is enabled per default in Server 2012(R2).

References:<https://serverfault.com/questions/679211/quick-format-of-lun-in-server-2012r2-hosted-on-a-thin-provisioned-san-vol-take>

NO.2 A physical XtremIO Management Server (XMS) has failed and requires replacement.

Which two software packages are required for recovery?

- A. XMS image and OVA image
- B. Xtremapp and OVA image
- C. XMS image and Xtremapp
- D. Xtremapp and MPIO

Answer: C

Explanation:

The first step is to re-install the XMS image, in the event it is a physical XMS then you may install an image via a USB flash drive or for a virtual XMS simply deploy the provided VMware OVA image.

The following step is to upload the XMS software to the images directory of the XMS and login with install mode

Once logged into the XMS console with xinstall then perform the following sequence of steps:

- 1 . Configuration
- 5 . Perform XMS installation only
- 1 1. Run XMS Recovery

```
Install menu
1. Configuration
2. Check configuration
3. Display configuration
4. Display installed Xtremapp version
5. Perform XMS installation only
6. Perform "fresh" installation(XMS + storage controllers)
7. Set IP Client Configuration
8. Start IP Client Installation
9. Set Policy Manager configuration
10. Start Policy Manager Installation
11. Run XMS Recovery
12. Reboot
99. Exit
```

Options to choose when running the "XMS Recovery":

```
> > 11
Enter IP Address or Host Name of the System Manager Storage Controller (usually the first) (previous value: ''):
> 172. .40
Input received: '172. .40'
Enter selection for Keeping the GUID of the old XMS (Y/N) (previous value: 'N'):
> N
Input received: 'N'
Enter selection for restoring the original DB in case of failure (Y/N) (previous value: 'Y'):
> Y
Input received: 'Y'
Running: /xtremapp/bin/xms-recovery 172. .40
█
```

References:<https://davidring.ie/2015/02/20/emc-xtremio-redeploying-xms-xtremio-management-server/>

NO.3 A storage administrator has 20 TB of storage provisioned to their ESXi cluster from a 10 TB XtremIO storage array. The administrator is concerned about running out of physical capacity on the XtremIO.

Which recommendation will assist the administrator?

- A. Enable VAAI TPSTUN
- B. Increase the compression ratio on the XtremIO
- C. Disable VAAI XCOPY
- D. Thick provisioned eager zero all VM virtual disks

Answer: A

Explanation:

TPSTUN is a VAAI primitive that enables the array to notify vSphere when a LUN is running out of space due to thin provisioning over-commit. The command causes suspending all virtual machines on that LUN. XtremIO supports this VAAI primitive.

NO.4 Which operation is performed when an XtremIO Snapshot is created?

- A. Pointers to the ancestor metadata are created for the snapshot
- B. Space equal to the size of the ancestor is allocated to the snapshot
- C. A reserved space is created for new snapshot data
- D. A deduplication pass is immediately run against the snapshot

Answer: A

Explanation:

When a snap is created, the following steps occur:

- 1) Two empty containers are created in-memory
- 2) Snapshot SCSI personality is pointing to the new snapshot sub-node
- 3) The SCSI personality which the host is using, is linked to the second node in the internal data tree

References: EMC RECOVERPOINT REPLICATION OF XTREMIO, Understanding the essentials of RecoverPoint Snap-based replication for XtremIO, page 8

<https://www.emc.com/collateral/white-papers/h14296-wp-recoverpoint-replication-of-xtremio.pdf>

NO.5 Which SCSI instructions are used to build a bitmap of the changes between the first snapshot and subsequent snapshots when RecoverPoint is used with XtremIO?

- A. SCSI Delta
- B. SCSI Transfer
- C. SCSI DIFF
- D. SCSI Update

Answer: C

Explanation:

DIFF protocol - A vendor specific SCSI command which RecoverPoint uses to query XtremIO with in order to obtain a bitmap of changes between two snapshot sets.

RecoverPoint uses the output of DIFF command to read the actual data and transfer it to the target side.

References: EMC RECOVERPOINT REPLICATION OF XTREMIO, Understanding the essentials of RecoverPoint Snap-based replication for XtremIO, page 9

<https://www.emc.com/collateral/white-papers/h14296-wp-recoverpoint-replication-of-xtremio.pdf>