

# E20-885<sup>Q&As</sup>

VNX Solutions Expert Exam for Implementation Engineers

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### QUESTION 1

A customer has two EMC VNX, one at the primary site and the other at a DR site located 100 km away. The WAN connection between sites is a 100 Mb/s dark fiber link with 4 ms latency.

A previous storage administrator configured the pool LUNs for the file system on thin LUNs. The file system is growing at a rate of 500 GB per week and is on a VDM. The new storage administrator reports performance issues with the file system. What is the most likely reason for the performance issue?

- A. Thin LUNs are used for the file system.
- B. The WAN link should be upgraded to an eLAN.
- C. The VNX system requires an upgrade.
- D. The file system has too many concurrent users connected.

Correct Answer: A

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### QUESTION 2

A customer is running a cluster of ESX v4.x servers accessing a VNX LUN with a very large number of virtual machines. They are experiencing intermittent transaction acknowledgement delays. What would you recommend to the customer to lessen these delays?

- A. Upgrade to VMFS-5 and utilize hardware assisted locking
- B. Upgrade to vSphere 5 and utilize Block Zeroing
- C. Upgrade to VMFS-5 and utilize Full Copy
- D. Upgrade to vSphere 5 and utilize Thin Provisioning Stun

Correct Answer: A

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### QUESTION 3

How many journals are required for a Consistency Group that has one local copy and one remote copy?

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

Correct Answer: C

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**QUESTION 4**

A customer placed their application data on a thin LUN created from an existing pool. The thin LUN is reaching capacity and cannot be expanded due to capacity constraints on the pool.

What is the best way for the customer to reclaim some of the capacity on the thin LUN?

- A. Compress the thin LUN
- B. Defragment the thin LUN
- C. Migrate the data to a new LUN on a new pool
- D. Migrate the data to a new LUN on the same pool

Correct Answer: A

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**QUESTION 5**

A customer plans migrate several Exchange 2010 databases to a new RAID 5 storage pool on an EMC VNX. The VNX has the FAST Cache and FAST VP enablers installed. Exchange 2010 is installed on a vSphere guest.

What performance best practice should be considered when migrating Exchange 2010 to the storage pool?

- A. Use thick LUNs in the storage pool.
- B. Enable FAST VP for the storage pool.
- C. Enable FAST cache for the storage pool.
- D. Use eager zeroed thin LUNs in the storage pool.

Correct Answer: A

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**QUESTION 6**

A customer runs their virtual environment on a cluster of ESX v4.0 hosts connected to an EMC VNX. They report there are long delays when they create large eager-zero thick virtual disks. You recommend they upgrade their virtual environment to vSphere v5.0 to benefit from its VAAI features. Which VAAI primitive addresses their issue?

- A. Block Zeroing
- B. Hardware assisted locking
- C. Full Copy
- D. Thin Provisioning Stun

Correct Answer: A

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**QUESTION 7**

An EMC VNX with EMC FAST Suite will be used as block storage for four Exchange 2010 servers. The Exchange servers will be used as mailbox and archive servers. The VNX has the following disks in two DAEs:

- Five 200 GB Flash drives
- Fifteen 600 GB SAS drives
- 
- Ten 2 TB NL-SAS drives

The customer wants to implement auto-tiering. What do you advise the customer?

- A.  
Retrieving an archived email will force moving the whole Archive mailbox to EFD disks.
- B.  
Storage tiering is not recommended because of Exchange 2010 BDM operations.
- C.  
Auto-tiering works only when every disk type group is installed in a separate DAE.
- D.  
There is no benefit to using auto-tiering with an archive solution.

Correct Answer: B

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#### QUESTION 8

You plan to migrate from an EMC CLARiiON to an EMC VNX. The VNX will present CIFS shares to several Windows application hosts.

What tool would you use to test the performance metrics of the CIFS shares on the new VNX prior to the migration?

- A. Iometer
- B. Perfmon
- C. Analyzer
- D. Wireshark

Correct Answer: A

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#### QUESTION 9

A Storage Administrator with a VNX Unified solution is using the CLI to monitor a highly specific view of daily storage performance. They must type long commands to examine the desired statistical information. You have been asked to accelerate this task.

What is the most suitable solution?

- A. Create user-defined statGroups
- B. Use Unisphere Statistics for File
- C. Use Celerra Monitor Tool
- D. Collect statistics from log files

Correct Answer: A

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#### QUESTION 10

A customer has a Windows-only environment connected to an EMC VNX for File at their main campus site.

The customer plans to install a new EMC VNX at a remote branch office site. The new VNX will be used to implement a DR solution for their main campus VNX using several deduplicated file systems shared and available to clients via CIFS.

Which solution do you recommend to the customer?

- A. Use VNX Replicator to replicate the VNX VDMs and associated file systems from the main campus site to the VNX system at the branch office site to provide an asynchronous DR solution.
- B. Use VNX Replicator to replicate the VNX VDMs and associated file systems from the main campus site to the VNX system at the branch office site to provide a synchronous DR solution.
- C. Use VNX SAN Copy to replicate the VNX block devices associated with the VNX file systems from the main campus site to the VNX system at the branch office site to provide a synchronous DR solution.
- D. Use VNX MirrorView/A to replicate the VNX block devices associated with the VNX file systems from the main campus site to the VNX system at the branch office site to provide an asynchronous DR solution.

Correct Answer: A

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#### QUESTION 11

A customer notices that when they delete all the VNX Snapshots, SP utilization seems to increase for a long time. This problem occurs at the end of every development cycle, when cleaning out unused data from development servers.

How could the VNX Administrator prevent the performance degradation, while still being able to clean up old snapshots?

- A. Keep at least one snapshot of the thick LUN.
- B. Unmount the Primary LUN before deleting the snapshots
- C. Defragment the LUN after removing all the snapshots.
- D. Rename the snapshots prior to deleting them.

Correct Answer: A

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**QUESTION 12**

A customer wants to replicate a CIFS environment from a legacy EMC Celerra to a new EMC VNX. Users are able to access CIFS shares from both arrays. The CIFS shares are on different networks and replication is not running. The customer wants to make sure there will be no network restrictions preventing replication between the data movers on two different networks. What TCP ports should they ask the network team to open?

- A. 8888, 8887, 5081
- B. 80, 443, 8080
- C. 5057, 445, 5087
- D. 23, 25, 22

Correct Answer: A

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**QUESTION 13**

What drives the storage sizing requirements for VDI?

- A. desktop/drive density
- B. desktop/drive capacity
- C. desktop/drive type
- D. desktop/drive rpm

Correct Answer: A

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**QUESTION 14**

Click on the calculator in the upper left-hand corner.

A company plans to migrate their 10 TB Oracle 10g database to a new EMC VNX with FAST Suite and FAST Cache. What is the recommended minimum FAST Cache size that should be provisioned?

- A. 1 TB
- B. 500 GB
- C. 100 GB
- D. 200 GB

Correct Answer: B

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**QUESTION 15**

A customer configures an Incremental SAN Copy session between a 500 GB LUN and a 550 GB thick LUN on a new DR VNX. The reserved LUN pool has 50 GB of free space. The source VNX has registered with the DR VNX. The SAN Copy session does not start. What is the cause of the issue?

- A. There is insufficient reserved space.
- B. The SnapView enabler is not installed.
- C. SAN Copy between a thin and thick LUN is unsupported.
- D. Destination LUN is a 550 GB thick LUN.

Correct Answer: A

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