

# E20-880<sup>Q&As</sup>

VNX Solutions Expert Exam for Technology Architects

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**QUESTION 1**

Your customer has an application on VNX File storage. The customer allocated the storage using Manual Volume Management in order to achieve the best performance. The customer noted that the file system used up all of the storage from the File LUNs even though the size of the file system is much less than the total of the File LUNs used.

Why was all of the storage used when the file system was created?

- A. The customer did not change the default\_slice\_flag to "yes" when creating the file pool
- B. The file pool is\_dynamic flag is set to "yes" and has taken up all of the LUN space
- C. Additional LUNs have been used to create the file system because is\_greedy is set to "yes"
- D. The stripe\_size flag was set to "yes" but no value was entered when the file system was created

Correct Answer: A

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**QUESTION 2**

Where does SnapSure place the SavVOL, by default?

- A. on a disk pool where FAST Cache is not enabled
- B. on a thin LUN
- C. on the same drive pool as the PFS
- D. on a disk pool where FAST Cache is enabled

Correct Answer: C

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**QUESTION 3**

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

Your customer has LUNs with a total size of 25,000 GB. The total I/O load is 10,000 IOPS, with a 4:1 R/W ratio. Analysis of your customer's data indicates that data skew is 95%. RAID 5 (4+1) is used exclusively in the environment. How many 200 GB FAST VP optimized Flash drives would be needed to handle the load of the working data set?

- A. 5
- B. 10
- C. 15
- D. 20

Correct Answer: B

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**QUESTION 4**

You are being asked to help a customer that is having issues with their new data warehouse application that they have just connected to their existing VNX.

The administrator has created a 2 TB pool LUN on 8 NL-SAS drives in a 6+2 raid 6 configuration. The customer does not have the budget to purchase more hardware this quarter but does have a mixture of SAS and NL-SAS drives you can

use.

Which action would you recommend to the customer?

- A. Move to SAS drives.
- B. Move to NL-SAS drives in a 14+2 Raid 6.
- C. Leave the data as is
- D. Enable FAST Cache on the pool.

Correct Answer: A

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**QUESTION 5**

A customer's database resides on a RAID 5 Pool with SAS drives. Which best practice should be followed to optimize Reserved LUN Pool disk performance?

- A. Use equal size thin LUNs from the same Pool as the database
- B. Use a mix of both SAS and NL-SAS disks from the same Pool as the database
- C. Use only SAS disks on dedicated RAID Groups
- D. Use only NL-SAS II drives on dedicated RAID Groups

Correct Answer: A

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**QUESTION 6**

A customer designed an environment using VNX LUNs presented to individual hosts. They configured a Pool to start using both Thick and Thin LUNs. One of the standalone servers is an archive server running on Windows. They want to maximize capacity on the standalone server since the data is no longer accessed. They have no more drives to increase LUN capacity.

How can the customer increase available capacity to the archive server?

- A. Compress the data on the LUN
- B. Add oversubscribed capacity to the existing LUN
- C. Delete old files

D. Back up the files, reconfigure the LUN, and restore the data

Correct Answer: A

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### QUESTION 7

A customer is planning to virtualize their current production Oracle environment. To obtain advice, they hired EMC Application Virtualization Assessment for Oracle. After assessing the environment, EMC found that the databases consist of

large, single server databases with high utilization, and a small number of application servers with high utilization.

What should be EMC's response to the customer?

- A. This is a poor virtualization candidate for production databases and application servers, but a good candidate for EMC FAST VP, FAST Cache and EMC Unified Storage, respectively.
- B. This is an excellent virtualization candidate for production databases and application servers.
- C. This is an excellent virtualization candidate for production databases, but a poor virtualization candidate for application servers, and a good candidate for EMC Unified Storage.
- D. This is a poor virtualization candidate for production databases, but a good candidate for EMC FAST VP and FAST Cache, and an excellent virtualization candidate for application servers.

Correct Answer: A

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### QUESTION 8

A company recently purchased a VNX storage system to support its clustered SQL Server environment. You are designing the disk layout.

Based on EMC best practices, what design characteristics should you follow when configuring SQL Server on the VNX?

- A. Basic disks, NTFS volumes of 64 KB clusters
- B. Basic disks, NTFS volumes of 128 KB clusters
- C. Dynamic disks, NTFS volumes of 64 KB clusters
- D. Dynamic disks, NTFS volumes of 128 KB clusters

Correct Answer: A

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### QUESTION 9

You received a call from a customer asking to help troubleshoot why they cannot select dvols using MVM from their remaining pool LUNS to create a stripe volume.

What could be a reason for this?

- A. All Thick LUNs must be used first
- B. All Thin LUNs must be used first
- C. LUNs must not exceed 18 TB in size
- D. LUNs must be on the same SP

Correct Answer: A

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#### QUESTION 10

In reviewing a nar analysis, what does workload skew measure?

- A. How much of the storage is handling the bulk of the workload
- B. The percentage of data that would be demoted from FAST Cache
- C. The distribution of the active data on the backend disks
- D. The percentage of data that has been moved to the Extreme Performance Tier

Correct Answer: A

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#### QUESTION 11

Your customer has a Microsoft SQL installation on a VMware guest Windows 2003 Server using RDM. The ESXi server uses a VNX system.

What would you recommend to your customer to avoid misalignment between a partition used by the Windows 2003 Server and the underlying physical disk?

- A. Use an NTFS allocation unit size of 64 KB and an offset value of 1024.
- B. Use an NTFS allocation unit size of 32 KB and an offset value of 1024.
- C. Alignment is automatically handled by Windows.
- D. Alignment for the virtual disk is handled by the ESXi server.

Correct Answer: A

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#### QUESTION 12

Your customer is new to Unisphere Analyzer and wants to know which chart should be used to identify how SP utilization relates to the increased IO on LUNs being used their Oracle application.

What Analyzer chart would give the customer the requested information?

- A. Detail

- B. Survey
- C. Summary
- D. IO Size Distribution

Correct Answer: A

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**QUESTION 13**

A VNX customer is using storage pools and FAST Cache to support a mixed workload environment. The mission-critical application is SAP with an underlying MS SQL database. The SQL database has an IO profile that is well suited for FAST Cache. The customer would like to increase the efficiency of FAST Cache while not degrading the performance in any way. Cost is not a consideration. What action should the SE recommend to improve FAST Cache efficiency?

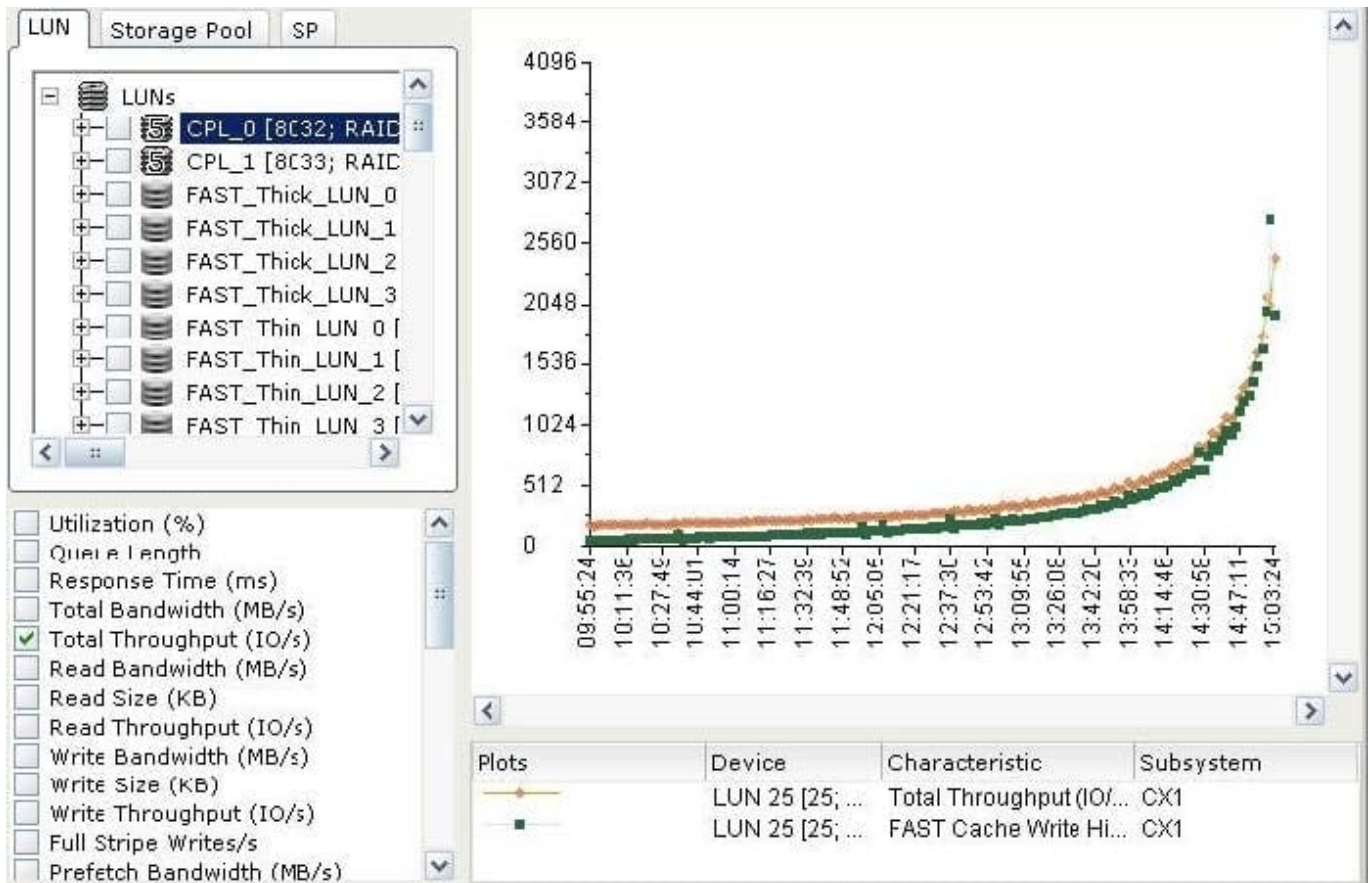
- A. Review the SP Collects and .nar data to determine which pools currently have FAST Cache enabled. Recommend FAST Cache only on pools that generate small to medium random IO.
- B. Review the SP collects and .nar data to determine if the FAST Cache is currently at the maximum supported value. If it is not, recommend adding additional SSDs to FAST Cache.
- C. Discuss the benefits of VNX with MCx in regard to FAST Cache and DRAM cache improvements.
- D. Request an EMC Customer Engineer perform a comprehensive health check of the array to determine if any hardware faults exist.

Correct Answer: A

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**QUESTION 14**

Refer to the exhibit.



Which process is illustrated in the exhibit?

- A. FAST Cache warmup
- B. FAST VP slice relocation
- C. FAST VP policy change
- D. FAST Cache writeback

Correct Answer: A

**QUESTION 15**

An Oracle database is stored on an EMC VNX storage array and replicated to a second VNX array at a DR location. EMC RecoverPoint is providing the replication. The customer is currently using a single Consistency Group for the Oracle database.

What would you recommend the customer do to ensure optimal recoverability?

- A. Create three Consistency Groups: (1) data files and undo logs; (2) online redo logs; (3) archived redo logs and control files
- B. Create two Consistency Groups: (1) data files, control files, and undo logs; (2) online redo logs and archived redo logs

C. Keep the single Consistency Group containing data files, undo logs, online redo logs, archived redo logs, and control files

D. Create two Consistency Groups: (1) data files, online redo logs, undo logs, and control files; (2) archived redo logs

Correct Answer: A

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