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**Exam** : **E20-324**

**Title** : VNX Solutions Design Exam for  
Technology Architects

**Vendor** : EMC

**Version** : DEMO

NO.1 During data collection, the Time Out of Sync (TOS) setting is currently set at 10 minutes.

You recommend a larger TOS setting based on the data that will be replicated.

Under what conditions would you increase the TOS setting?

- A. Source is prone to bursts of write activity.
- B. Source is prone to bursts of read activity.
- C. Source is prone to very low write activity.
- D. Source is prone to very low read activity.

**Answer: A**

NO.2 Your customer has purchased a VNX to upgrade the storage for an Exchange Server cluster.

What tool should you use to gather performance data from the Exchange cluster?

- A. iostat
- B. sar
- C. esxtop
- D. perfmon

**Answer: D**

NO.3 You are reviewing the array configuration of a VNX array that has MirrorView/A enabled. You

notice that all the images related to MirrorView/A have FAST Cache disabled. What is the best

practice for FAST Cache on MirrorView/A?

- A. Enable on source image and RLP LUNs.
- B. Enable on source image.
- C. Disable on source image.
- D. Disable on source image and RLP LUNs.

**Answer: B**

NO.4 Your customer wants to create a new pool for file and would like you to validate the configuration. The pool will be created with one RAID1/0 4+4 FLASH drive group and eight RAID 5 4+1 SAS drive groups. The customer wants to create an even number of LUNs and allowed for auto assignment of SPs.

What would you tell the customer?

- A. Pools for file can only contain one RAID type.
- B. Pools for file can only contain one drive type.
- C. Pools for file are not supported.
- D. The configuration is optimally configured.

**Answer: A**

NO.5 A customer has a VNX array with ten 300 GB SAS disks installed in enclosure 0, bus 0. The customer wants to reserve one disk as a spare and create a RAID 5 8+1 Pool with the remaining hard drives.

The LUNs created from the pool will be used to store static data and will have very low I/O. When the customer attempts to create the pool only five disks are available instead of nine.

What should the customer do?

- A. Create a 4+1 RAID group instead of a Pool
- B. Use NaviSecCLI commands to create the Pool
- C. Create the Pool in Unisphere using Engineering mode
- D. Create an 8+1 RAID group instead of a Pool

**Answer: A**

NO.6 A customer has a 256 GiB primary MirrorView/S image. The image workload is 1,000 IOPs of random 8 KiB I/Os, with a R/W ratio of 3:1. The secondary image is fractured for 20 seconds as the result of a connectivity failure. How much data will be copied to the secondary as part of the resynchronization process?

- A. 5,120 MiB
- B. 1,250 MiB
- C. 2,560 MiB
- D. 8,192 MiB

**Answer: B**

NO.7 Click on the calculator icon in the upper left-hand corner. A customer wants to add a SnapView snapshot to a 500 GiB LUN. Captured data show that the LUN performs 500 4 KiB IOPs with a read/write ratio of 3:1. What is the expected initial bandwidth at which data chunks will be written into the Reserved LUN Pool?

- A. 7.813 MiB/s
- B. 3.906 MiB/s
- C. 500 KiB/s
- D. 2.125 MiB/s

**Answer: A**

NO.8 You are gathering data on a customer's VNX for analysis. Which Navisphere Secure CLI command can be used to display cumulative numbers for Total Reads and Total Writes?

- A. getcontrol
- B. getcache
- C. getlun
- D. getdisk

**Answer: A**

NO.9 Your customer has established a new virtual pool of storage containing NL-SAS drives in a RAID 5 configuration. Recently they have noticed that performance on the entire array is affected between 1:00AM and 4:00AM.

What information would best indicate the root cause?

- A. More than 21 forced flushes per second
- B. SP utilization greater than 71%
- C. Large sequential writes
- D. HWM set to 60%; LWM set to 40%

**Answer: A**

NO.10 The majority of your customer's servers have highly utilized database applications that require predictable performance.

What type of storage do you recommend?

- A. RAID Groups with traditional LUNs
- B. Storage groups with thick LUNs
- C. Pool with traditional LUNs
- D. RAID Groups with thin LUNs

**Answer: A**

NO.11 A solution has been designed for a customer in which several ESX servers are connected to a VNX array through iSCSI. The customer created two separate networks to isolate the iSCSI traffic. One set of ESX and VNX ports is on a 192.168.3.x/16 network while the other set is on a 192.168.4.x/16 network.

While performing several tests, the customer sees that some ports are not working correctly. What is causing this issue?

- A. Incorrect subnet mask is used
- B. iSNS has not been configured
- C. Too many networks were created
- D. MTU has not been set correctly

**Answer: A**

NO.12 Your customer is running Exchange 2007 with VSS.

They have just purchased RecoverPoint/SE.

Which replication options are supported for their Exchange 2007 environment?

- A. Online full, online copy, online differential
- B. Online full, offline copy, online differential
- C. Offline full, online copy, online differential
- D. Offline full, offline copy, online differential

**Answer: A**

NO.13 Several Windows servers are allocated storage from the VNX array. The customer would like to know whether any of these servers are subject to disk crossing.

What tools are available to verify this condition?

- A. Unisphere Analyzer and NaviSecCLI
- B. Navisphere Analyzer and NaviSecCLI
- C. ECC Performance Manager and Navisphere Analyzer
- D. ECC Performance Manager and Work Load Analyzer

**Answer: A**

NO.14 While gathering existing customer environment information to provide a new VNX storage system solution, you have found many different HBA types, servers, operating systems, and other SAN hardware.

Which wizard within E-Lab Navigator can be used to validate a new VNX storage solution?

- A. SOE & Software Wizard
- B. CLARiiON Host Attach Wizard
- C. Switch Interoperability Wizard
- D. Storage Array Wizard

**Answer:** C

NO.15 A customer has two data centers located 500 kilometers apart and uses VNX arrays in each data center for both block and file storage. Each data center is monitored and managed by Unisphere. The customer wants to deploy an integrated replication methodology to protect all of his data.

Which product will meet the customer's requirements?

- A. RecoverPoint/SE (CRR)
- B. MirrorView/A
- C. Replication Manager
- D. VNX Replicator

**Answer:** A