

# E20-322

## EMC

### *Technology Architect Solutions Design*

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**QUESTION: 1**

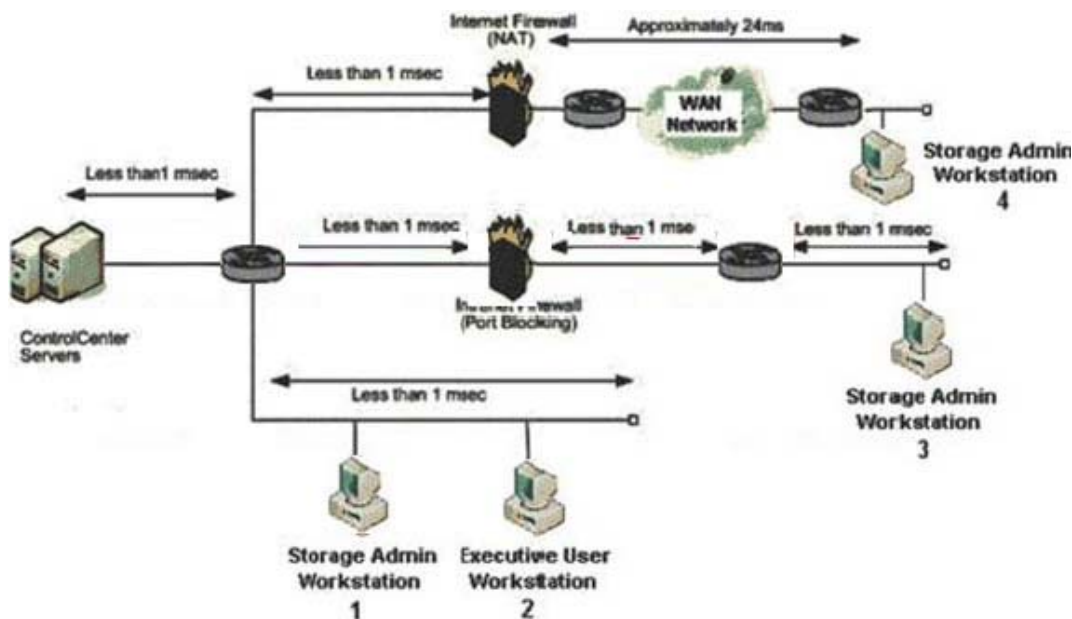
ABC.com has two Microsoft Exchange servers attached to their CLARiiON array with the log and database files on separate RAID 5 LUNs. They are experiencing performance problems during peak production hours. Which best practice should you suggest they implement to relieve the performance problem?

- A. Migrate the files to RAID 1/0 LUNs
- B. Stripe new disks into the RAID 5 LUNs
- C. Concatenate new disks to the RAID 5 LUNs
- D. Migrate the files to RAID 1 LUNs

**Answer: A**

**QUESTION: 2**

You work as an administrator at ABC.com. You study the exhibit carefully. Exhibit:



ABC.com has a network that uses routers and various types of firewalls. The user at Storage Admin Workstation #4 requires full EMC ControlCenter management capabilities, including the ability to allocate storage resources within the array and perform SAN management tasks. Which user interface would you recommend to the user?

- A. Web Console
- B. Java Console through a Terminal Services Client
- C. Java Console
- D. StorageScope API

**Answer:** B

**QUESTION:** 3

ABC.com has identified an application that is not performing within service levels and resides on Tier 2 storage. The DMX-4 has multiple tiers of storage. Tier 2 storage consists of 300 GB 10k rpm and Tier 1 storage consists of 146 GB 15k rpm. Which EMC product can assist the customer in moving the application data from Tier 2 to Tier 1 storage while maintaining application availability?

- A. Open Replicator
- B. PowerPath
- C. Symmetrix Optimizer
- D. Replication Manager

**Answer:** C

**QUESTION:** 4

You work as an administrator at ABC.com. You study the exhibit carefully.  
Exhibit:

Switch #	Max throughput (MB/sec)
1	500
2	300
3	350
4	450

A customer is creating a dual fabric topology from four independent switches. Each switch has 32 ports, each operating at 4 Gb/s. The observed loads are displayed in the exhibit. Based on the information provided, what is the minimum number of ISLs required between each switch pair?

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

D. 3

**Answer:** A

**QUESTION: 5**

ABC.com has a number of hosts that generate 1200 IOPS, each with a block size of 4 KB. A Fibre Channel port on the storage array has a maximum I/O rate of 6,000 IOPS with a 4 KB block size. What is the maximum number of hosts the customer should attach to one Fibre Channel port?"

- A. 5
- B. 4
- C. 2
- D. 3

**Answer:** A

**QUESTION: 6**

A cost-conscious customer expressed concern that during backup windows they experience poor performance from their CLARiiON array. However, during the day they have experienced no performance problems. Using NaviAnalyzer, they have determined that the read cache is completely saturated during the backup processes and they believe this is causing the performance problem. The customer is requesting that you design a solution to resolve the problem. How would you resolve the customer's issue?

- A. Adjust cache read/write before and after the backup job runs via NaviCLI commands
- B. Use EMC Avamar to de-duplicate the data and reduce backup windows
- C. Use Dynamic LUN Migration to modify the LUN layout
- D. Permanently adjust cache read/write ratios

**Answer:** A

**QUESTION: 7**

ABC.com is storing data on their primary storage server and using EMC NetWorker to back up this server. They have been experiencing a significant increase in their backup windows during full backups. You analyzed the customer's environment and verified that the backup schedules and levels are configured correctly. You also noticed that a large amount of data on the primary storage server has been infrequently accessed. What should you suggest to the customer to reduce their backup windows?

- A. Move the backup server from direct-attached to a SAN connection
- B. Upgrade the backup client network to GigE
- C. Archive the inactive data and purge it off the primary storage
- D. Set the archive bit on all inactive data

**Answer:** C

**QUESTION: 8**

A customer likes the deduplication benefits of an EMC Avamar solution and is interested in implementing it in their environment. The customer would like to know how deduplication works with restores and has asked you to explain the restore process with Avamar. How does Avamar construct the files for restores?

- A. Avamar reconstructs the entire file on the server and sends the complete file back to the client.
- B. Avamar checks the client's atomic hashes for blocks that are already present. It then looks to the server, which sends only the unique blocks back to the client.
- C. Avamar checks the client's atomic hashes for blocks that are already present. It then looks to see if it can rebuild the file locally. If not, it restores the remaining blocks from the server.
- D. Avamar reconstructs the entire file on the client without server intervention, provided it is within the most recent backup.

**Answer:** A

**QUESTION: 9**

ABC.com wishes to consolidate all Tier 1 and Tier 2 applications to a centralized storage architecture. They are concerned that the performance of Tier 1 could be impacted by spikes in Tier 2 performance. Which CLARiiON feature will alleviate this concern?

- A. Quality of Service Manager
- B. Asymmetric Logical Unit Allocation
- C. CLARiiON Optimizer
- D. CLARiiON Cache Manager

**Answer:** B

**QUESTION: 10**

ABC.com has many remote sites with limited bandwidth and fewer than five servers in those locations. The customer likes to back up the servers in these remote sites to their central data center. The customer is looking at various de-duplication-based backup applications and has asked you to explain what makes EMC Avamar a better fit for the environment that has bandwidth limitations. Which EMC Avamar design feature addresses the customer's question?

- A. EMC Avamar breaks a file into fixed blocks and sends only the unique changed blocks across the environment to the backup server
- B. EMC Avamar breaks a file into multiple variable blocks and sends only the unique changed blocks across the environment to the backup server
- C. EMC Avamar keeps a local copy of the backup data in the cache file and communicates with the server only when needed
- D. EMC Avamar uses secure 128-bit AES encryption that secures data and optimizes the bandwidth

**Answer:** B

**QUESTION:** 11

What is the maximum number of log sets that need to be accounted for in designing a storage solution for Microsoft Exchange Server 2007 Standard Edition?

- A. 4
- B. 1
- C. 3
- D. 5

**Answer:** B

**QUESTION:** 12

ABC.com with several Linux hosts connected to their CLARiiON array has asked for your assistance. They attempted to create a clone of the volumes on one of their hosts via the Navisphere CLI and the operation failed. To ensure the CLI operation is successful, what must the customer do before creating the clones?

- A. Use the Navisphere Secure CLI
- B. Implement anagent.config file on the host
- C. Grow the Reserved LUN Pool
- D. Create the Clone Private LUNs

**Answer:** D

**QUESTION:** 13

ABC.com is interested in enabling their organization's disaster recovery goals through the use of MirrorView/A across a telecommunications link to a CLARiiON in a remote facility. What describes the potential impact of this on the customer's production CX3-40 array?

- A. Due to PowerPath CLAR\_Opt settings, no impact will be realized
- B. Due to Copy on First Write, response time will increase while MirrorView/A transfers updates
- C. Due to Asymmetric Logical Unit Access, response time will stay the same
- D. As long as the block sizes are the same on the source and target LUNs, performance will stay the same

**Answer:** B

**QUESTION:** 14

You need to perform an assessment of your customer's backup infrastructure that is using EMC NetWorker. You will be collecting information such as:

Backup clients Backup servers Storage nodes

Amount of data backed up over time

Configured devices

Clients that are not part of the backup network

Which tool should you use to gather this information?

- A. EMCNetWorker
- B. EMC Backup Advisor
- C. Advanced Reporting
- D. VisualSRM

**Answer:** D

**QUESTION:** 15

ABC.com is concerned about the performance implications of disabling write cache if one of the drives in the range 0 through 4 fails on their CX3-40 DAE-OS. What should you recommend?

- A. Disable HA Cache Vault
- B. Enable HA Cache Vault
- C. Enable Auto Assign
- D. Disable Cache Assignment

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