

Exam : EMC E20-322

**Title : Technology Architect
Solutions Design**

Version : Demo

1. A charity runs its Windows-based database on external disks and plans to move the data onto a CLARiiON. You plan to gather performance about the current environment. Which method should you use?

- A. Usesar and iostatto gather bandwidth, throughput and response time information
- B. Use PerfMon to gather bandwidth, throughput and response time information
- C. Use Navisphere Analyzer to gather bandwidth, throughput and response time information
- D. Use lometerto gather bandwidth, throughput and response time information

Answer: B

2. Your analysis and design for an upcoming proposal is complete. Your customer has a requirement to archive data as unalterable sets of files. These sets of files have to be available to both UNIX and Windows clients. Which technology do you propose to meet this requirement?

- A. iSCSI
- B. SnapSure
- C. CWORM
- D. Celerra Replicator

Answer: C

3. A software engineering firm has decided to implement shared networked storage to facilitate project development. There are approximately 40 servers in the company; 25% are Solaris and 75% are Windows. The company currently limits growth for storage and does not want to add additional servers for that purpose. It anticipates no more than 30% growth over the next three years.

The storage utilized for the network file systems must be maintained on the most cost effective solution that is the easiest to manage. However, storage must also be tracked so that required storage for projects can be charged back to the development teams. Additionally, the network file system will be used for non-project related storage from other departments such as Human Resources and Accounting. Space allocation for non-project files must be monitored and reports generated for management.

In order to choose the most appropriate management application for this environment, you will need to analyze specific qualification information. What is the best methodology for collecting this information?

- A. Provide the EMC qualification document to the customer and have them complete the form
- B. Collect GRABs from all server systems and process with HEAT. Consolidate your findings and

summarize on the qualification document

C. Interview product development team leads and department heads. Determine current and projected storage requirements and any retention policies currently in use

D. Request network configuration information and performance characteristics. Evaluate ability of the network to support additional management monitoring

Answer: C

4. Your customer migrated OLTP applications from servers with direct storage to new servers using a CLARiiON array. Users are complaining about poor application performance. The following information is available for your review:

Performance Manager data on CLARiiON and SAN switches
Current CLARiiON configuration information
Oracle statistics for the applications
EMC Grabs on the newer servers

Your hypothesis is that caching characteristics on the CLARiiON array are not appropriate. What is the best method to validate this hypothesis?

A. Compare current CLARiiON configuration with installation settings made by Professional Services

B. Review overall mixture of applications to determine if cache settings are appropriate

C. Ask the Customer Engineer to disable Read caching and see if that helps

D. Run HEAT reports on the GRABS

Answer: B

5. After implementation of SRDF/S or MirrorView/S, what is the most important metric to monitor?

A. Host measured response time

B. Network error rate

C. Network utilization

D. Array cache usage

Answer: A

6. A customer has four HBAs in its server and notices that I/O activity is distributed between them as follows:

80% 7% 13% 10%

Which PowerPath load balancing option has most likely been set?

A. CLAR_opt B - Least_ I/Os

C. Least_Blocks

D. No Redirect

Answer: A

7. An engagement with a mobile device manufacturer has yielded a solution that includes several storage arrays and ControlCenter. As part of the solution, EMC will provide system integration and training.

What is the scope of this solution?

A. Enterprise solution

B. Point solution

C. Complete solution

D. Standard solution

Answer: A

8. The CTO of a major corporation called EMC alter an extended outage of its mission-critical application which resulted in a large financial loss. The application is SAP/ Oracle running on Solaris servers connected through a SAN to a CX700 array. The application is currently running 8ms response times.

What information is required to design an optimal disaster recovery solution?

A. Available bandwidth, write rate, recovery point objective/recovery time objective

B. Write rate, distance between sites, recovery point objective/recovery time objective

C. Transaction rate, number of volumes replicated, distance between sites

D. Read/write ratio, available bandwidth, number of volumes replicated

Answer: B

9. You interview the IT staff and management of a customer. You learn that storage policies have been defined and documented and that all staff follow these policies. Which EMC Enterprise Maturity rating most closely reflects the process maturity?

A. 1

B. 2

C. 3

D. 4

Answer: C

10. Your customer needs to add NAS capability to use excess capacity in its CLARiiON storage array. It has 140 Windows servers, which are all at least three years old. There is a total of 8.2TB of Windows data. You have decided that all of the servers can be consolidated onto one Celerra. Which Celerra model would be the best to propose?

A. NS502

B. NS700

C. NSX

D. CFS-14

Answer: C

11. You have been engaged to analyze a customer's performance problem. You conducted a root cause analysis. You traced the problem to the layout of the database across the backend of the storage device.

Which type of solutions design engagement does this represent?

A. FutureState

B. Transactional

C. Operational

D. Strategic

Answer: C

12. On an HP-UX host, what is the key advantage of PowerPath when compared with the native multipathing feature provided by LVM (PV-Links)?

A. Provides dynamic load-balancing over all active paths to a LUN

B. Supports higher LUN count

13. A customer's environment consists of 65 servers. All of the servers have either internal storage or direct attached applications.

The customer complains that server response time is slow. You concentrated your data gathering on the servers.

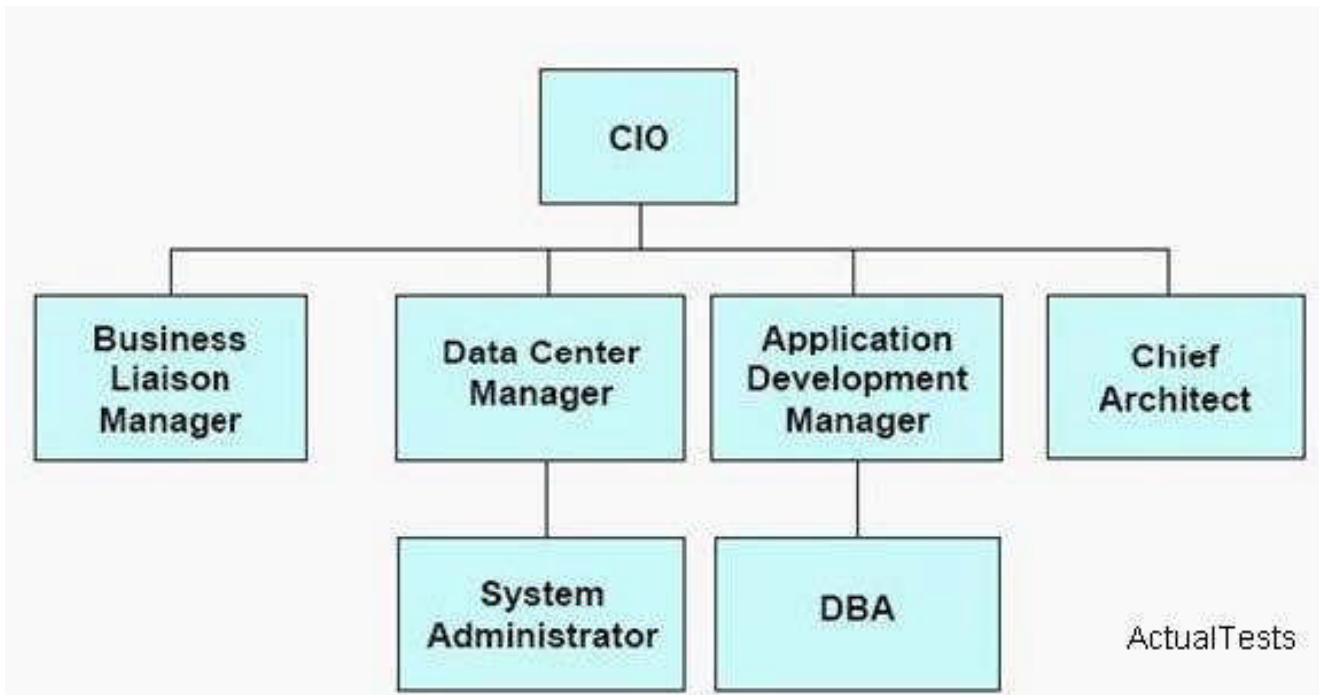
- A. Active Directory
- B. Network topology
- C. SAN switches
- D. Security procedures

Answer: B

14. ABC Company plans to use MirrorView/S between its two CX700 arrays at remote facilities. During your design meeting, the customer indicated it will be mirroring LUNs on each array with bi-directional mirroring between the arrays. ABC wants to be able to: Reduce the time required to re-sync the mirrors if the link goes down Provide redundancy in the event of a Storage Processor failure Produce the least performance impact on each server What must be planned for in the design of each CX-Series array to achieve the customer's request?

- A. Configure the MirrorView Fracture Log on each CX-Series array and specifically assign its use on each LUN
- B. Configure the MirrorView Write Intent Log on each CX-Series array and specifically assign its use on each LUN.
- C. Configure the MirrorView Fracture Log on each CX-Series array only
- D. Configure the MirrorView Write Intent Log on each CX-Series array only

Answer: B



A reduction of capacity-related outages by 80%

An increase in application uptime by 10%

A solid base for a multi-platform operational management system

Which ACME role is most impacted by these benefits?

- A. Chief Information Officer
- B. Data Center Manager
- C. Chief Architect
- D. System Administrator

Answer: B

16. Your customer's Exchange environment (10,000 seats) is currently running on six HP servers with direct attached storage. The Exchange servers are using approximately 3TB of storage. The Exchange administrator gets calls on a daily basis to restore emails that have been deleted. You have been asked to size the environment to accommodate future growth.

What are other sizing considerations for configuring an Exchange storage environment in addition to the number of Exchange seats?

- A. Blackberry usage, level of email usage, mailbox size, shared folder usage
- B. Mailbox size, PST size, level of email usage, shared folder usage
- C. PST size, mailbox size, network latency, attachment sizes

D. Network latency, mailbox size, level of email usage, number of active directories

Answer: A

17. You are performing an assessment at a large customer site. You are trying to get information on IT processes. You had a produ6364.6(i)-5.3(v)11.2(e)-364.5(m)-8.0(v)10.4(at)4.3(i)-5.3(a)10.4(d)-375.9(w)5.9

Answer: D

20. You designed a solution for a large SAN and NAS implementation at a customer site. You will use SAN Copy to migrate SAN data. You now have to recommend a NAS migration tool. The customer can give you a production outage to configure the migration, but cannot afford another outage later. Which EMC migration solution requires only a short amount of down time at the beginning of a migration?

A. Rsync

B. CDMS

C. EMCopy

D. Robocopy

Answer: B