

Technology Architect - Backup and Recovery Solutions Design Exam

1. An EMC Avamar customer has added a new file system client to their moderately full Avamar single-node server.

A. 1 - 2 hours

B. Less than 1 hour

C. 5 - 6 hours

D. 3 - 4 hours

Answer(s): D

2. You are asked to design an EMC NetWorker backup solution for a customer's data center with multiple database applications and a large amount of clients and data. The NetWorker backup server needs to be configured and set up properly for the customer environment.

A. RAID 5 is recommended for the NetWorker server if the NetWorker server exceeds 100 parallel sessions.

B. Set NetWorker server Parallelism to the total number of Max Sessions on all devices.

C. RAID 10 is recommended for the NetWorker server if the NetWorker server exceeds 100 parallel sessions.

D. Create multiple NetWorker groups with a maximum of 100 clients per group and enforce Group Parallelism.

Answer(s): C

3. An EMC NetWorker customer is considering backup options for their VMware environment. The environment consists of Microsoft Windows file servers and an Oracle database server running on Solaris. What is an advantage of using the VMware image backup operation?

A. No proxy server required for the backup environment

B. File-level restore granularity available for all systems

C. Low load on the ESX server during backups

D. Application backup data is crash-consistent

Answer(s): D

4. An EMC customer has been using NetWorker backup and has recently added an Avamar system for file system backups. The customer wants to move all backups to the Avamar system to take advantage of deduplication. They are currently backing up Sybase and SAP with NetWorker.

A. Utilize native database tools to back up to flat files, then use Avamar to back up the resulting files

B. Use pre- and post-processing scripts to shut down the databases and perform a cold backup with Avamar

C. Configure Avamar as a deduplication Storage Node in NetWorker to administer all backups

D. Use snapshots to mount the databases to a proxy server for backups

Answer(s): C

5. What is a reason for implementing EMC Data Protection Advisor (DPA) in a DPA clustered architecture?

A. Enable replication between DPA application servers

B. Use virtual machines for all DPA application servers

C. Restrict customer access to specific DPA application nodes

D. Power up a standby DPA application server automatically

Answer(s): C

6. A customer's backup solution is reaching the end of warranty. The customer has installed an Avamar solution for their file server and ESX servers. They want to move all the backups to this environment.

A. DD Boost and two 1 Gb NIC cards

B. OST Plug-in and 10 Gb NIC card

C. DD Boost and one 10 Gb NIC card

D. OST Plug-in, DD Boost, and 1 Gb NIC card

Answer(s): A

7. You are designing an EMC Data Protection Advisor (DPA) solution for a large NetWorker customer using both DPA clustering and replication.

A. Use clusters containing both application and datastore servers

B. Connect a DPA datastore to each cluster VLAN in the solution

C. Implement DPA clustering in a virtualized environment

D. Configure DPA replication between master and secondary application servers

Answer(s): C

8. A customer is considering implementing an EMC Disk Library with Active Engine Failover (AEF). Front-end ports 1, 3, and 4 from Engine A will be connected to the SAN. On Engine B, front-end ports 7, 8, and 11 will be connected to the SAN.

A. 6

B. 12

C. 8

D. 3

Answer(s): A

9. A customer has approached you to advise them on how their backup environment will integrate into their new iSCSI application server deployment. Which network characteristic would have the greatest impact on their backup environment?

A. Traffic segmentation

B. Dynamic DNS

C. IP version level

D. LDAP authentication domain

Answer(s): A

10. A customer is interested in using a Remote Copy policy to replicate data between two single-engine EMC Disk Library (EDL) systems. The customer is concerned about the readiness of replicated tapes in case of a failure on the source system.

A. Use small virtual tapes

B. Implement a TCP network accelerator

C. Increase the number of EDL ports connected to the IP network

D. Use jumbo frames

Answer(s): A

11. An existing EMC Data Domain customer is evaluating new backup software and hardware for their environment. Their current environment consists of a single data center along with several remote sites.

A. Avamar with an integrated Data Domain system

B. NetWorker with DD VTL and an integrated Avamar system

C. NetWorker with DD Boost and an integrated Avamar system

D. NetWorker with DD Boost along with remote storage nodes

Answer(s): C

12. A customer's backup environment consists of an EMC Avamar 6.1 integrated Data Domain solution. A large portion of the backup data comes from Microsoft Exchange servers. The Avamar backups use the Data Domain device as a backup target.

A. Avamar and Data Domain at the same time

B. Avamar and then moved to Data Domain

C. Data Domain

D. Avamar server

Answer(s): D

13. A new EMC Data Domain customer has a requirement to store the maximum amount of backup data on their Data Domain system. They are deciding on the type of local compression to use for their backups.

A. gzfast compression uses less space and twice as much CPU cycles as gz

B. gz compression uses the least amount of space and the most CPU cycles

C. lz compression uses the least amount of space and the most CPU cycles

D. gz compression uses 30% to 40% less storage space on average than lz

Answer(s): B

14. A customer wants to know why their backup performance to an EMC Avamar multi-node server has decreased. Initially they were seeing an ingest rate of approximately 5 to 7 GB/hr/node. Recently they estimated that the ingest rate has slowed to around 3 to 5 GB/hr/node.

A. HFS check has found errors and has not been completing successfully

B. A large number of backups have expired causing new, relatively empty stripes to be created

C. Garbage collection is not running causing new stripes to be created

D. Stripes contain more data and steady state has been achieved

Answer(s): D

15. A customer has requested assistance with several backup and recovery challenges. You use the EMC backup scripts to perform the data collection.

A. Capacity and health of the backup environment

B. Expired backup data

C. CPU, networker, and network utilization

D. Backup failure rates

Answer(s): A

16. An existing EMC Avamar customer wants to add a new database client to their Avamar system. This is a moderately full Avamar single-node server running in steady state.

A. 1 - 2 hours

B. Less than 1 hour

C. 8 - 10 hours

D. 4 - 6 hours

Answer(s): D

17. A customer plans to integrate an EMC Disk Library (EDL) with NetWorker. The customer has purchased an Embedded Storage Node License to clone virtual taped from the EDL to a physical tape library.

A. Each backup client resource needs the Embedded Storage Node defined as the Clone Storage Node

B. Client resource of the NetWorker server needs the Embedded Storage Node defined as the Clone Storage Node

C. Client resource of the Embedded Storage Node needs the Embedded Storage Node defined as the Clone Storage Node

D. VTL Auto-changer resource needs the Embed Storage Node defined as the Read Host Name

Answer(s): D

18. You are designing a backup solution for an EMC NetWorker customer. Given a conservative estimate, how many CPU cycles are needed by the storage node when backing up clients over the network to local tape drives at a rate of 100 MB/s?

A. 2000 MHz

B. 250 MHz

C. 500 MHz

D. 1000 MHz

Answer(s): D

19. An EMC Avamar customer has Oracle 11g running on a Microsoft Windows server. They want to deploy hot backups. What is a design consideration for hot backups when using the Avamar plug-in for Oracle?

A. Incremental backups are supported using RMAN BCT

B. Backups initiated with Avamar Administrator must be full-level backups

C. Restores must be to the original database location

D. Use of exclude/include lists in a dataset is supported

Answer(s): A

20. A customer is considering an EMC Avamar backup solution. They want to know whether Avamar can provide the security benefit of data encryption between the clients and the Avamar server.

A. Encryption strength can be specified when configuring a backup group

B. Encryption must be selected at installation time and is the same for all clients

C. Some type of encryption, either medium or high, must be specified for each backup

D. An encryption option must be selected at installation time and impacts server resources

Answer(s): A

