

# EMC

## Exam E20-329

### Technology Architect Backup and Recovery Solutions Design Exam

Version: 12.0

[ Total Questions: 326 ]

**Topic break down**

<b>Topic</b>	<b>No. of Questions</b>
<b>Topic 1: Volume A</b>	<b>100</b>
<b>Topic 2: Volume B</b>	<b>100</b>
<b>Topic 3: Volume C</b>	<b>126</b>

**Topic 1, Volume A****Question No : 1 - (Topic 1)**

In a Microsoft Windows environment, how fast does a split have to occur for VSS to work?

- A. Within 2 seconds
- B. Within 5 seconds
- C. Within 10 seconds
- D. Within 15 seconds

**Answer: C**

**Question No : 2 - (Topic 1)**

An EMC Avamar customer wants to start backing up their VMware environment. The customer's goal is to have image-level backup while having a low impact on the ESX server. In addition, they want the ability to perform file-level restores of their Microsoft Windows clients.

Which backup method will meet the customer's needs?

- A. VMware Consolidated Backup
- B. Avamar agent on each guest OS
- C. AcCelerrator Node
- D. Avamar agent on the ESX server console

**Answer: A**

**Question No : 3 - (Topic 1)**

An Avamar customer is using replication between two data centers. There is a T1 line between the data centers and it is dedicated to Avamar replication. The customer is concerned that Avamar replication is only getting throughput of 1.1 megabits per second during replication.

What should be changed in the design and implementation of this solution?

- A. Turn off replication encryption

- B. Obtain more bandwidth
- C. Add the --throttle flag during replication
- D. Use the --all nodes flag during replication

**Answer: B**

**Question No : 4 - (Topic 1)**

You are designing an EMC NetWorker deduplication solution for a customer. When performing a restore of a backup containing multiple save sets from a deduplication node.

What is the maximum number of save sets that can be recovered concurrently?

- A. 1
- B. 2
- C. 4
- D. 6

**Answer: C**

**Question No : 5 - (Topic 1)**

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.

What are the “in-flight encryption” considerations?

- A. Can be changed at any time and has no performance penalty
- B. Can only be set at installation time and has no performance penalty
- C. Can be changed at any time and has a significant performance penalty
- D. Can only be set at installation and has a significant performance penalty

**Answer: A**

**Question No : 6 - (Topic 1)**

You are adding an Avamar deduplication node to a customer's EMC NetWorker environment. Clients currently back up to tape and perform full backups on Sunday and incrementals on all other days.

In the new solution, these clients will back up to the deduplication node. The speed of recovery is important to the customer. Which changes may be required to the backup schedule?

- A. Perform Full on Sunday and Level 1 backups on all other days of each week
- B. No changes are required to the backup schedule
- C. Perform initial Full backup and Level 1 backups forever
- D. Perform Full backups every day

**Answer: D**

**Question No : 7 - (Topic 1)**

The EMC account team has been asked to design a NetWorker backup solution for a Microsoft SharePoint server. The customer's environment consists of a Microsoft SharePoint Server 2007 distributed farm deployment on a CLARiiON disk array with EMC VSS Provider and an EMC Disk Library.

The customer wants to leverage a Microsoft VSS framework to provide disaster recovery of the SharePoint Server 2007 distributed farm environment. What is an important design consideration?

- A. Individual SharePoint web application can be restored
- B. Individual SharePoint content database cannot be restored
- C. Recovery operation can be initiated from any SharePoint web front-end server
- D. Rollback recovery is unsupported

**Answer: D**

**Question No : 8 - (Topic 1)**

A customer has acquired multiple companies with a combination of IBM Tivoli Storage Manager, EMC NetWorker, and IBM iSeries BRMS backups to physical tape in their data center. They have a data center 15 miles away that plan to use for disaster recovery. Dark fiber between the two sites exists.

The customer has asked EMC to help improve their backup performance and reliability. They also want to eliminate the need to move physical tapes offsite each day. Which recommendation satisfies the customer's requirements?

- A. Install Data Domain and Data Protection Advisor at the data center and replicate to Data Domain over FC at the disaster recovery site
- B. Install an EMC Disk Library (EDL) at the data center with Data Protection Advisor and use Remote Copy replication to EDL at the disaster recovery site over IP
- C. Install Data Domain at the data center with OST and replicate to Data Domain over IP at the disaster recovery site
- D. install an EMC Disk Library (EDL) and Data Protection Advisor at the data center with a backup application vaulting to the EDL at the disaster recovery site over FC

**Answer: D**

**Question No : 9 - (Topic 1)**

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. Dynamic DNS
- B. LDAP authentication domain
- C. Traffic segmentation
- D. IP version level

**Answer: C**

**Question No : 10 - (Topic 1)**

A NetWorker customer has a single data zone with three storage nodes backing up 250 clients. A dual-engine EMC Disk Library is being proposed as the backup-to-disk solution.

What is the minimum number of virtual tape libraries required?

- A. 1
- B. 2
- C. 3
- D. 4

**Answer: A**

**Question No : 11 - (Topic 1)**

An EMC Avamar customer wants to start backing up their VMware environment. The customer's goal is to obtain the highest level of data deduplication support for file system and application backups. In addition, they do not want to have to train their administrators on a new backup method.

Which method of VMware backup will meet the customer's needs?

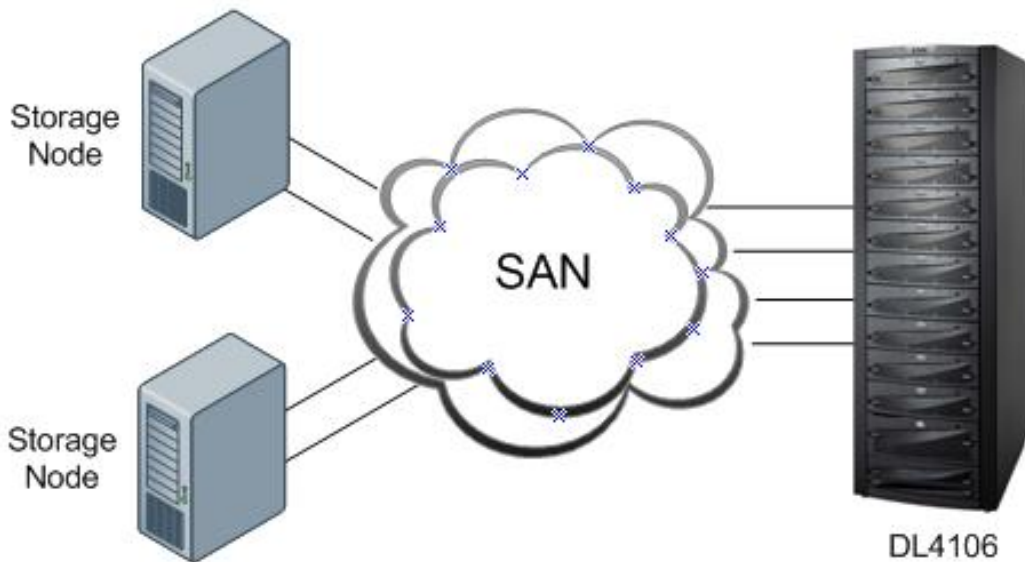
- A. Install an Avamar agent on each guest OS
- B. Install the Avamar agent on the ESX server console
- C. Use a snapshot mounted to a proxy server over the SAN
- D. Use VMware Consolidated Backup

**Answer: A**

**Question No : 12 - (Topic 1)**

An EMC NetWorker customer is considering using an EMC Disk Library as a target as shown in the exhibit. Two storage nodes need to access the same pool of virtual tapes. In addition, the customer wants to load balance the usage of virtual tape drives across the available connections.

Based on EMC best practices, which satisfies these requirements?



- A. Assign each host initiator port a different set of virtual tape drives from the same virtual library
- B. Configure each host initiator with a different virtual tape library, pointing to a common pool of virtual tapes
- C. Assign all virtual drives to all host initiator ports and use Power Path
- D. configure all virtual tape drives on all initiators and enable Active Engine Failover

**Answer: A**

**Question No : 13 - (Topic 1)**

You are designing a Data Protection Advisor (DPA) solution to support a NAS environment. The environment consists of a Celerra, a NetApp file server, a backup infrastructure of 185 NetWorker clients, and 300 Symantec NetBackup clients.

What are the appropriate DPA licensing requirements?

- A. Backup option for 500 clients and one file server option for each NAS system
- B. Backup option for 185 NetWorker and 300 NetBackup clients, and 1 Celerra, and 1 NetApp client
- C. Backup option for 500 clients and a single file server option for the NAS systems
- D. Backup option for required client count, a Celerra file server, and a NetApp file server option

**Answer: A**



**Question No : 14 - (Topic 1)**

A customer is using Data Protection Advisor (DPA) to monitor their backup environment.

What is a benefit of using remote Collectors?

- A. Reduces the amount of information being transferred to the DPA server
- B. Collects system-related statistics for a given host
- C. Improves the collection performance of backup statistics
- D. Provides more complete backup reports

**Answer: B**

**Question No : 15 - (Topic 1)**

A potential Avamar customer has 4 TB of data to back up, which is spread across many clients. All clients are in the same data center as the Avamar server with Gigabit Ethernet connecting all hosts.

The customer has a requirement to perform their initial backups within 80 hours. What is the minimum number of 2 TB data nodes needed to satisfy this requirement?

- A. 3
- B. 6
- C. 10
- D. 16

**Answer: C**

**Question No : 16 - (Topic 1)**

A customer wants to know why their backup performance to the Avamar multinode flgrid has decreased. Initially they were seeing an ingestion rate of around 5 to 7 GB/hr/node. Recently they estimated that it has slowed to around 3 to 5 GB/hr/node.

What is a probable cause for the decrease in the average ingestion rate?

- A. HFS check has not been completing successfully
- B. A large number of backups have been expired, causing new stripes to be created
- C. New stripes are no longer being created and steady-state has been achieved
- D. Garbage collection is not running, causing stripes to fill and new stripes to be created

**Answer: C**

**Question No : 17 - (Topic 1)**

A new EMC Avamar customer wants advice on setting up their groups and schedules. The customer has a mixed environment and is migrating from a traditional tape backup solution with a mixed retention policy.

Which follows EMC best practices for setting up groups and policies?

- A. Minimize the number of groups, combine different OSs in datasets, and implement advanced retention.
- B. Group clients by OS, make unique datasets for each OS, and create unique retention policies for Monthly, Daily, Weekly, and Yearly.
- C. Enable the default group and use the group for all policies. Every client is added to this group upon activation.
- D. Create a unique group for each dataset, schedule, and retention.

**Answer: A**

**Question No : 18 - (Topic 1)**

A customer has Oracle 9i running on a Microsoft Windows server. They want to deploy hot backups because the database cannot be shut down. What is a design consideration for backups when using the Avamar plug-in for Oracle?

- A. Use of exclude/include lists in a dataset is supported
- B. Backups initiated through Avamar Administrator are always Full backups
- C. File system backup should include the entire root directory for each Oracle instance
- D. Full and incremental backups are initiated through Avamar Administrator

**Answer: B**