EMC

Exam E20-591

Backup and Recovery Solutions Exam for Technology Architects

Version: 8.0

[Total Questions: 275]

Topic 1, Volume A

Question No : 1 - (Topic 1)

An administrator wants to back up an EMC Celerra with Avamar using a single NDMP accelerator node. Based on EMC best practices, what is the maximum number of files that can be backed up per backup job?

A. 5 million
B. 10 million
C. 15 million
D. 20 million

Answer: B

Question No : 2 - (Topic 1)

Which EMC NetWorker feature is used to perform a backup based on an event?

A. Application modules
B. Directives
C. Scheduled backups
D. Probe-based backups

Answer: D

Question No : 3 - (Topic 1)

Where is deduplicated data stored on a Data Domain system?

A. SATA drives
B. NVRAM
C. SCSI drives
D. PATA drives

Answer: A

Question No : 4 - (Topic 1)

You are asked to propose a serverless backup solution for the following environment:

- ✐ Oracle database running on HP-UX 11i and all datafiles reside on an EMC Symmetrix disk array.
- ✐ EMC TimeFinder/Mirror is used to create a copy of the Oracle data.
- ✐ Mirror copy of the Oracle data is backed up by a Sun Solaris 10 server.

Which EMC product would you recommend to support this environment?

A. RecoverPoint
B. Avamar
C. Data Domain
D. NetWorker

Answer: C

Question No : 5 - (Topic 1)

An EMC customer has an EMC NetWorker server running on a Microsoft Windows host and two storage nodes running on Solaris hosts. Data Protection Advisor (DPA) will be installed on a separate Windows host. The customer requires that system performance information be collected from the backup server and all storage nodes.

A Collector will be installed on the DPA server by default. At a minimum, how many additional Collectors need to be deployed?

A. 0
B. 1
C. 2
D. 3

Answer: C

Question No : 6 - (Topic 1)

An EMC NetWorker customer has added the following application to their environment:

✎ Microsoft Exchange Server 2007 residing on an EMC CLARiiON disk array.
✎ A Microsoft Volume Shadow Copy Service hardware provider is used to create point-in-time copies of production data.

What is a requirement to perform serverless backups?

A. NetWorker storage node software needs to be installed on the Exchange server
B. NetWorker Module for Microsoft Applications needs to be installed on the proxy server
C. NetWorker Module for Exchange and NetWorker VSS Client for Microsoft Windows
D. NetWorker Module for Exchange needs to be installed on the NetWorker server

Answer: C

Question No : 7 - (Topic 1)

An EMC NetWorker customer needs to improve the RTO for all backups retained onsite. Most of the backup jobs consist of images and other scientific data. The customer requires daily tape out for long-term offsite retention. Which product addresses these challenges?

A. EMC Disk Library
B. NetWorker deduplication node
C. Avamar
D. Data Domain

Answer: B

Question No : 8 - (Topic 1)

Which Avamar node is dedicated to providing internal Avamar server processes and services?

A. Spare
B. Storage
C. Utility
D. Accelerator

Answer: C

Question No : 9 - (Topic 1)

An EMC NetWorker customer wants to start performing client backups to a deduplication node. What is a requirement when scheduling these backups using NetWorker?

A. First backup must be a full backup
B. Database backups must be full backups
C. All backups must be full backups
D. Schedule must not include any incremental backups

Answer: A

Question No : 10 - (Topic 1)

Which technology is used in an EMC Disk Library to provide tolerance against a double drive failure?

A. RAIN
B. RAID 6
C. Remote Copy
D. Active Engine Failover

Answer: B

Question No : 11 - (Topic 1)

An Avamar customer has just deployed a VMware environment. The customer wants to ensure they receive the highest level of deduplication within the environment. Which type of backup should be performed?

A. Guest
B. VCB proxy host
C. VADP
D. ESX console

Answer: B

Question No : 12 - (Topic 1)

The backup window of a customer using tape as a target for the current backup solution has increased over the allowed time. The customer needs to reduce the backup window by adding an intermediary process to a faster device before going to tape. What is that process?

A. Archiving
B. Rotation
C. Consolidation
D. Staging

Answer: B

Question No : 13 - (Topic 1)

A customer's environment currently has a backup window that exceeds the replication window. Which Data Domain characteristic will solve this issue?

A. Post-process deduplication
B. Variable-length segment size
C. Fix-length segment size
D. Inline deduplication

Answer: B

Question No : 14 - (Topic 1)

In an EMC NetWorker backup environment, where do the metadata and backup policies reside?

A. Storage node
B. Backup server
C. Dedicated storage node
D. Backup client

Answer: B

Question No : 15 - (Topic 1)

You are backing up two different NAS servers, each with direct-attached tape drives. Backup Client X has 10 files of 100 MB each. Backup Client Y has 1,000 files of 1 MB each. What will happen under identical backup infrastructures?

A. Clients X and Y will generate the same amount of backup catalog entries
B. Clients X and Y will not increase the size of the catalog entries
C. Client X will generate more backup catalog entries
D. Client Y will generate more backup catalog entries

Answer: D

Question No : 16 - (Topic 1)

On an Avamar server using default settings, what is the maximum allowable operating system capacity utilization after which HFS check will not run?

A. 65%
B. 85%
C. 90%
D. 95%

Answer: C

Question No : 17 - (Topic 1)

Due to a bottleneck on the LAN, a potential EMC customer is unable to meet their current SLA on backups. Which Avamar characteristic addresses the customer's issue?

A. Backing up to locally-attached disk
B. Prefetching the data
C. Bandwidth throttling
D. Transferring only unique, sub-file data

Answer: D

Question No : 18 - (Topic 1)

If Data Domain is a target for backups, which environment will yield the highest deduplication compression ratio?

A. Hospital where compliance requires patient information (CAT scans, MRI, X-Rays) to be backed up and archived for 10 years
B. Virtualized environment where OS images are stored in a SAN environment backed up and stored for up to 3-6 months
C. Financial institution where compliance requires e-mails and documents are backed up and stored for up to 7 years
D. Database environment where transaction logs are backed up daily and stored for 1 month

Answer: C

Question No : 19 - (Topic 1)

Where is most duplicate data on the Data Domain system discovered?

A. Segment Locality
B. Meta Logs
C. Fingerprints
D. Summary Vector

Answer: A

Question No : 20 - (Topic 1)

A customer is using EMC NetWorker to back up already compressed files to a device with compression enabled. What is a possible impact?

A. Files increase in size
B. Generates more metadata
C. Files are decompressed
D. Files decrease in size

Answer: A

Question No : 21 - (Topic 1)

A host has a file system with files changing every day. Full backups are performed every Sunday. The backup window during weekdays is limited. Full file system recovery should be accomplished in the shortest amount of time. Which type of backup should be performed every weekday to meet these requirements?

A. Raw
B. Block level
C. Differential
D. Incremental

Answer: C

Question No : 22 - (Topic 1)

A customer is using NetWorker with a tape library to perform full backups at the end of the month and daily incrementals. The restore process takes a long time as tapes must unload and reload. The customer needs to achieve a faster recovery. What will help achieve the right RTO?

A. Dedicated backup LAN
B. Virtual tape library
C. Faster tape drive
D. Faster backup server hardware

Answer: B

Question No : 23 - (Topic 1)

An Avamar administrator wants to run multiple backups from their Celerra through their single NDMP accelerator node. Based on EMC best practices, what is the recommended maximum number of backup jobs that the administrator can run at once, assuming there is enough RAM?

A. 2
B. 4
C. 8
D. 16

Answer: B

Question No : 24 - (Topic 1)

A customer has a critical 700 GB application that is CPU- and disk-intensive. The backup window for this application is one hour. Which backup method would you recommend for this application?

A. LAN-free backup
B. Serverless backup
C. LAN-based backup
D. Direct-attached backup

Answer: D

Question No : 25 - (Topic 1)

When does the Avamar server run garbage collection?

A. During the morning and evening cron jobs
B. During the blackout window
C. During the maintenance window
D. During the morning cron job

Answer: B

Question No : 26 - (Topic 1)

What is the RAID level on an Avamar NDMP accelerator node?

A. 0
B. 1
C. 5
D. 6

Answer: B