



# **Dell EMC**

## **E20-591 Exam**

### **Dell EMC Backup Recovery Solutions Specialist for Technology Architects Exam**

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## Version: 11.0

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### Question: 1

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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

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**Answer: B**

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### Question: 2

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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

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**Answer: D**

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Explanation:

## ***Probe-based Group Backups***

- Event-driven backups
- Backup of the group is performed based on the result of executing user-created client *probes*
- A *probe* is a user-created program/script configured to run on clients in a probe-enabled group
  - The success (exit 0) of the probe triggers the backup
  - **Probe Interval** determines how often probing occurs (minutes)
  - **Probe Start** and **End** times define the probing window when client probing occurs

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The screenshot shows the 'Properties' dialog box for a 'Group Resource'. The 'Setup' tab is selected. The 'Client Overrides' section includes fields for Schedule, Level, Interval (24:00), Force incremental (checked), Schedule time, Expiration time, File inactivity threshold (30), and File inactivity alert threshold (30). The 'Probe' section is highlighted with a red border and contains the following fields: Probe based group (checked), Probe interval (60), and Probe start time (0:00). A yellow callout bubble with the text 'Select to enable probing' points to the 'Probe based group' checkbox.

**Question: 3**

Where is deduplicated data stored on a Data Domain system?

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

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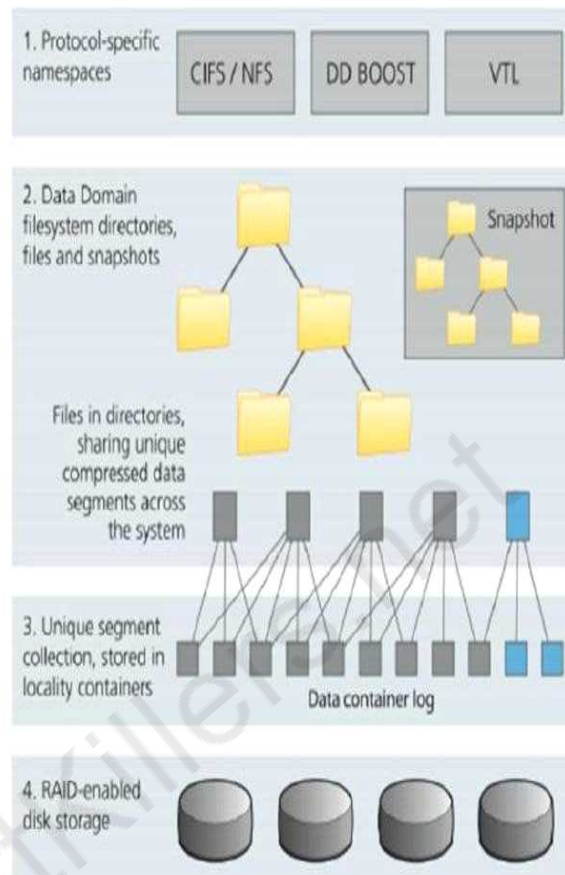
**Answer: A**

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Explanation:

## Data Domain Logical and Physical System Layers

- Protocol Namespaces:
  - Provide external interface to applications
- File System
- Unique Segment Collection:
  - Segments of data
  - Deduplicated
  - Stored in collection containers
- RAID 6 disk:
  - Stores collection containers
  - SATA drives



### Question: 4

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 dat

a.

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: 5

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

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**Answer: C**

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**Question: 6**

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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

a.

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

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**Answer: C**

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**Question: 7**

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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

a. 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

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**Answer: B**

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**Question: 8**

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

- A. Spare

- B. Storage
- C. Utility
- D. Accelerator

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**Answer: C**

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**Question: 9**

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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

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**Answer: A**

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**Question: 10**

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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

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**Answer: B**

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**Question: 11**

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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

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**Answer: B**

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**Question: 12**

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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

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**Answer: B**

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**Question: 13**

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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

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**Answer: B**

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**Question: 14**

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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

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**Answer: B**

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**Question: 15**

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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

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**Answer: D**

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**Question: 16**

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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%

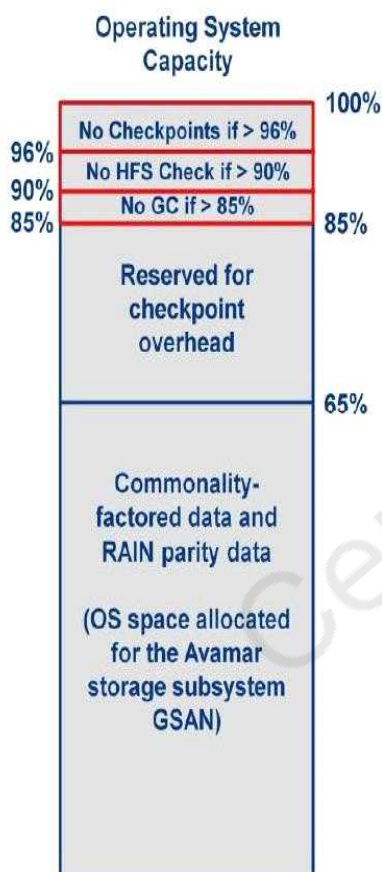
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**Answer: C**

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Explanation:

## Avamar Server Capacity Thresholds (2 of 2)



Garbage collection does not run when OS capacity exceeds 85%

– As checkpoints roll off, garbage collection will resume

hfscheck will not run when OS capacity exceeds 90%

Checkpoint does not run when OS capacity exceeds 96%

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### Question: 17

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

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**Answer: D**

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**Question: 18**

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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

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**Answer: C**

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**Question: 19**

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

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

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**Answer: A**

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**Question: 20**

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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

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**Answer: A**

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**Question: 21**

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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

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**Answer: C**

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**Question: 22**

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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

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**Answer: B**

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**Question: 23**

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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

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**Answer: B**

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**Question: 24**

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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

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**Answer: D**

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**Question: 25**

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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

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**Answer: B**

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Explanation:

**Blackout Window.** The portion of each day reserved for performing server maintenance activities (primarily checkpoint and garbage collection) that require unrestricted access to the server.

**Operational Impact** No backup or administrative activities are allowed during the blackout window. You can perform restores.

**Default Settings** The default blackout window begins at 8 a.m. local server time and continues uninterrupted for three hours until 11 a.m. that same morning.

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