



E20-598^{Q&As}

Backup and Recovery - Avamar Specialist Exam for Storage Administrators

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QUESTION 1

What is the behavior of an EMC Avamar HFS check when it detects an error in a stripe?

- A. Attempts stripe repair
- B. Aborts checking and restarts
- C. Completes with exceptions
- D. Stops the GSAN

Correct Answer: A

Automatic stripe repair

HFS check occasionally fails due to data corruption in one or more stripes. If this occurs, the automatic repair task, which runs during the maintenance window, automatically attempts to repair the stripes with available parity data. Automatic repair only occurs in the current version of the stripe, not the checkpointed version.

Automatic repair is equivalent to the **avmaint testintegrity --repair** command and follows these rules:

Table 7 Rules for automatic repair in HFS check

Condition	Result
Data is corrupted only in the current version of the stripe (not the checkpoint stripe).	Automatic repair task attempts to repair the stripe.
Data is corrupted only in the checkpoint stripe (not the current version).	No repair is required.

QUESTION 2

Based on the configuration represented in the exhibit, which type(s) of EMC Avamar replication can be used?



- A. Normal
- B. Full copy
- C. Root-to-root
- D. Normal and root-to-root

Correct Answer: A

QUESTION 3

By default, which snapshots are retained?

- A. All checkpoints created in the last two days
- B. The two checkpoints created during the maintenance window plus two created outside the maintenance window
- C. The last two including the last validated checkpoint
- D. The last two validated checkpoints in the last two days

Correct Answer: C



Backend capacity reports

Backend capacity reports show the amount of physical server storage capacity used. This calculation includes capacity optimized by data deduplication, but does not include capacity consumed by RAIN overhead.

Each report can be configured to report on the entire Avamar server, specific Avamar domains, or specific Avamar clients.

There are two ways to run backend capacity reports:

- ◆ From Avamar Administrator
 - ◆ From the command line using the **backendreport** utility
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QUESTION 4

A Microsoft Windows user is about to initiate an on-demand backup from the client interface when the utility node fails on their multi-node EMC Avamar grid. What must be done prior to initiating the backup to ensure the backup will complete successfully?

- A. Nothing. Backups are performed from the client to the storage nodes directly.
- B. The utility node must be replaced and the configuration restored prior to starting the backup.
- C. The spare node must be converted to a utility node and the configuration restored to it prior to starting the backup.
- D. The client must be activated temporarily to the first storage node and then the backup can continue.

Correct Answer: A

QUESTION 5

Based on EMC best practice, what is recommended when creating Avamar domains?

- A. A minimal number of domains
- B. A domain for every client
- C. A domain for each file system
- D. A sub-domain for each hardware platform

Correct Answer: A

QUESTION 6



By default, what percentage of file system storage space is reserved for operating systems and checkpoint overhead on an EMC Avamar server?

- A. 10%
- B. 20%
- C. 35%
- D. 50%

Correct Answer: C

The OS View is the total file system in the Avamar, while the gsan View is the total allocated to stripes. Gsan view is 65% of the Avamar server and it is used mainly for user data - this is the licensed capacity. Above that, 20% of the system file space is used for checkpoint overhead and the remaining 15% is for the operating system.
<http://gregandthenetwork.blogspot.com/2013/11/managing-avamar-server-capacity.html>

QUESTION 7

Which size Avamar Gen4 storage node is supported for a RAIN configuration?

- A. 1.0 TB
- B. 1.3 TB
- C. 2.6 TB
- D. 3.9 TB

Correct Answer: D

For Gen4 3.9TB node: Raw capacity is 6 TB and licensed capacity is 3.9 TB For Gen4 7.8 TB node: Raw capacity is 12 TB and licensed capacity is 7.8 TB So, In a RAIN config with 1 utility node and 4 storage nodes (7.8 TB), the total capacity should be 48 TB and total licensed capacity is 31.2 TB

QUESTION 8

An EMC Avamar Gen4 server has arrived at a customer's site. You begin reviewing the hardware for an Avamar 6 installation. You find that two of the five nodes are Gen3 running RHEL OS and the others are running SLES OS. Can you proceed with the install?

- A. No. All nodes in a Gen4 server must be Gen4 running SLES OS.
- B. Yes. The two nodes running RHEL can be re-kickstarted with SLES OS.
- C. Yes. The three nodes running SLES can be re-kickstarted with RHEL OS.
- D. No. All nodes in a Gen4 server must be Gen4 running RHEL OS.

Correct Answer: A



QUESTION 9

Which basic network settings are required when configuring an EMC Avamar node at installation?

- A. IP address, DNS parameters, subnet, hostname and domain, gateway
- B. IP address, SMTP server, subnet, hostname and domain, gateway
- C. IP address, DNS parameters, duplex, hostname and domain, gateway
- D. IP address, DNS parameters, subnet, MTU size, gateway 54

Correct Answer: A

QUESTION 10

Which factor(s) affect the capacity utilization in an EMC Avamar environment?

- A. Total amount of primary data being backed up
- B. How often the backups are scheduled to run
- C. Size of the grid and license amount
- D. Whether HFS check succeeds every day

Correct Answer: A

QUESTION 11

A storage administrator is troubleshooting an EMC Avamar client that is failing with "Time Out - Start". Which log is the first place to check?

- A. avagent.log
- B. err.log
- C. avtar.log
- D. gsan.log

Correct Answer: A

The location of the client logs will vary depending on the platform: On Windows: C:\program files\avs\var\ On Linux: /usr/local/avamar/var On other UNIX platforms: /opt/AVMRcnt/var On NetWare: sys:\avamar\var On MAC: /private/var/avamar You can retrieve maintenance logs (checkpoint, hfscheck, gc) using the "dumppaintlogs" command and the GSAN itself logs errors in /data01/cur/err.log on each node but in general.

QUESTION 12

On a single-node Gen4 EMC Avamar Data Store, what is the optional use of the GB2 port?



- A. Outgoing replication
- B. MC and administrative traffic
- C. High availability
- D. Connection to the internal switch

Correct Answer: A

QUESTION 13

You are installing a single-node Gen4 Avamar Data Store. Which label is on the port that is optionally used to connect the node to the second customer switch for high availability?

- A. GB1
- B. GB2
- C. GB3
- D. GB4

Correct Answer: C

QUESTION 14

You are working in a Microsoft Windows Active/Passive cluster environment. On which cluster node(s) must the EMC Avamar Windows file system client be installed?

- A. Active and passive clients only
- B. Active client only
- C. Virtual client only
- D. Active, passive, and virtual clients

Correct Answer: A

QUESTION 15

What is the minimum number of EMC Avamar active storage nodes required for a supported RAIN configuration?

- A. 2
- B. 3
- C. 4
- D. 5



Correct Answer: B

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