



# E20-598<sup>Q&As</sup>

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



**Table 3** Minimum requirements for AVE

	0.5 TB AVE	1 TB AVE	2TB AVE	4 TB AVE
Processors	Minimum two 2 GHz processors	Minimum two 2 GHz processors	Minimum two 2 GHz processors	Minimum four 2 GHz processors
Memory	6 GB	8 GB	16 GB	36 GB
Disk space	850 GB	1,600 GB	3,100 GB	6,100 GB
Network connection	1 GbE connection	1 GbE connection	1 GbE connection	1 GbE connection

What is the minimum physical memory that needs to be allocated to an EMC Avamar Virtual Edition with 2 TB of licensable capacity?

- A. 3072 MB
- B. 4096 MB
- C. 8192 MB
- D. 16384 MB

Correct Answer: D

**Table 3** Minimum requirements for AVE

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**QUESTION 3**

Which document should be approved and available to you at the time of a node addition to a customer's EMC Avamar server?



- A. SVC Qualifier
- B. Healthcheck report
- C. ConnectEMC (SYR) report
- D. Sales order

Correct Answer: A

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#### QUESTION 4

For which situation is the adaptorctl.pl command used?

- A. Associating an Avamar server with a Backup Recovery Manager server
- B. Moving a client to a different domain in Avamar Client Manager
- C. Adding a server to be managed with Enterprise Manager
- D. Configuring a network adapter card for backup data traffic

Correct Answer: A

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#### QUESTION 5

Avamar solves the challenge of redundancy in backup data at the client—before transfer across the LAN or WAN during a backup operation. Avamar backup agents are deployed on the systems to be protected (for example, servers, desktops, laptops) to identify and filter repeated data segments stored in files within a single system and across multiple systems over time. This ensures that each unique data segment is backed up only once across the enterprise. As a result, copied or edited files, shared applications, embedded attachments, and even daily changing databases generate only a small amount of new backup data.

By moving only new, unique subfile variable length data segments, Avamar significantly reduces the required daily network bandwidth and storage. By storing just a single instance of each subfile data segment globally, Avamar also reduces total back-end storage by up to 50x for cost-effective, long-term, disk-based recovery.

What is the function of an EMC Avamar spare node?

- A. Load balance the utility node
- B. Dynamically grow capacity
- C. Replace a failed data node





D. NDMP accelerator

Correct Answer: C

#### Notes

##### Symptom

Every multi-node Avamar system must have a spare node. Below are guidelines that describe how it is used to provide redundancy.

##### Resolution

- The Avamar spare node is a standby server which remains powered on and can be placed in operation as a data or utility node. This is a manual process.
- The spare node should not be used to increase capacity on the grid.
- On certain occasions, it also can be used for as a part replacement source, which should be decided by management.
- The only parts that can be used are Hard Drives, Power Supply or the chassis (in case of a Hard Drive swap).
- Hard Drives and Power Supplies are hot swappable.
- Hard Drive: No more than 1 disk should be removed from the spare node.
- Power Supply: If one power supply must be removed for a period of time, the remaining power supply must be installed in the left bay and a blank installed in the right bay.  
IMPORTANT: Extended operation of a node with only one functioning power supply and no blank can cause the node to overheat.
- Chassis: For more details see esg104620 and "Transplanting a Node" chapter on *ADS Customer Service Guide*.

##### Other points to consider:

- A node rebuild can be affected if the spare node is in a degraded state. That is, if a HDD has been removed and another node on the grid goes offline.
- As some grids are formed with multi generation nodes, it is necessary to verify if the parts are the same and extra attention must be paid when ordering.
- Spare nodes are not part of the active Avamar GSAN and therefore, hardware failures are not monitored in the same way as on other Avamar nodes.

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