



E20-598^{Q&As}

Backup and Recovery - Avamar Specialist Exam for Storage Administrators

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QUESTION 1

For each file that is backed up in an EMC Avamar system, how many total bytes are added to the file cache?

- A. 20
- B. 24
- C. 40
- D. 44

Correct Answer: D

The most important thing to do on a client with so many files is to make sure that the file cache is sized appropriately. The file cache is responsible for the vast majority (>90%) of the performance of the vamar client. If there's a file cache miss,

the client has to go and thrash your disk for a while chunking up a file that may already be on the server.

So how to tune the file cache size?

The file cache starts at 22MB in size and doubles in size each time it grows. Each file on a client will use 44 bytes of space in the file cache (two SHA-1 hashes consuming 20 bytes each and 4 bytes of metadata). For 25 million files, the client

will generate just over 1GB of cache data.

<http://jslabonte.blogspot.com/2013/08/avamar-and-large-dataset-with-multiples.html>

QUESTION 2

What is the purpose of running the EMC Avamar Virtual Edition benchmark process?

- A. Verify that the performance of the disk storage meets specifications
- B. Verify that there is enough memory
- C. Verify that there is enough storage available
- D. Verify that the CPU on the system is fast enough

Correct Answer: A



The benchmark test is a troubleshooting tool that can be run to ensure that the AVE virtual machine can function at an acceptable level in the virtual environment. This appendix describes how to set up, start, and end the testing.

There are two purposes for this test:

- ◆ To ensure the AVE virtual machine runs in an environment with acceptable I/O performance.
 - ◆ To stress virtual machine resources to determine whether the impact of running an AVE virtual machine is acceptable to other applications on the ESX/ESXi host.
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QUESTION 3

By default, what does the Avamar Email Home profile send?

- A. Status of the daily integrity check
- B. Avamar alerts once daily
- C. Reports once daily
- D. Avamar alerts as they occur

Correct Answer: D

Email Home An optional feature that uses the High Priority Events profile and Notification schedule to regularly send server error and status messages to EMC Technical Support.

Facilitating support

EMC recommends that you enable ConnectEMC and Email Home on all Avamar systems:

- ◆ ConnectEMC automatically generates service requests for high priority events.
 - ◆ Email Home emails configuration, capacity, and general system information to EMC Customer Support.
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QUESTION 4

In EMC Avamar, what is the purpose of the p_cache.dat file?



- A. Determines if a chunk is already stored on the Avamar server
- B. Determines if a file is already stored on the Avamar server
- C. Stores storage node IP addresses
- D. Sets backup flags and options

Correct Answer: A

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 parts. Configuration must be the same for every data node within a grid.
- 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.

https://emc--c.na5.visual.force.com/apex/KB_BreakFix_1?id=kA1700000000TkN

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