



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

Backup and Recovery - Avamar Specialist Exam for Storage Administrators

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### QUESTION 1

An EMC Avamar system is integrated with an EMC Data Domain system. When a backup has expired on the Avamar server, what is the impact to the backup data stored on the Data Domain system?

- A. Backup data is marked for deletion on the Data Domain system
- B. Backup data is deleted from the Data Domain system
- C. Backup data on the Data Domain system is replicated 59
- D. Cleaning is run on the Data Domain system

Correct Answer: A

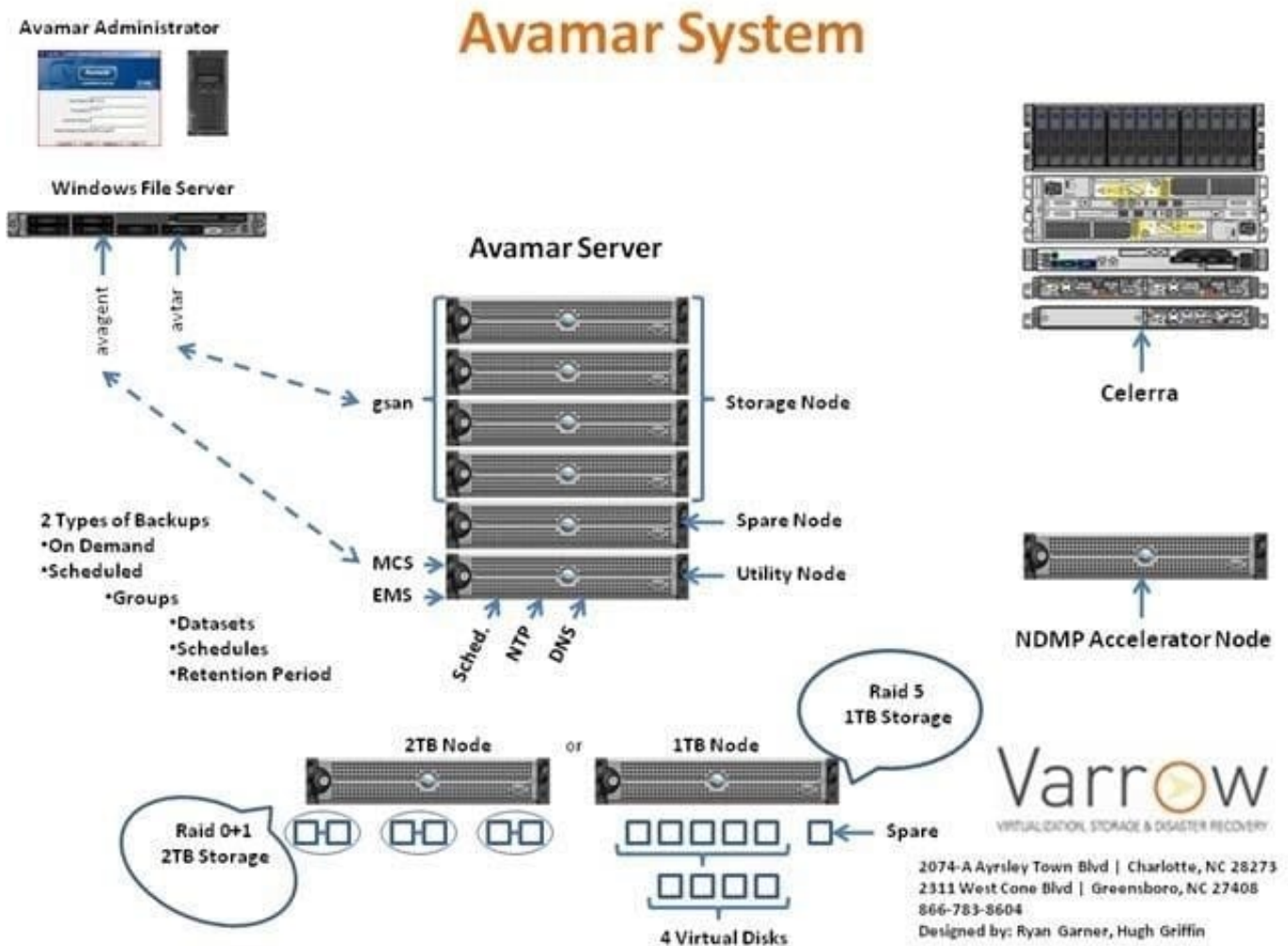
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### QUESTION 2

Which client process listens for a work order from the EMC Avamar server?

- A. avagent
- B. avatar
- C. avsc
- D. mcs

Correct Answer: A



Avamar Node Types and Processes There are several different types of Nodes within an Avamar Server. The Utility node is the identity of the Avamar Server and provides the bulk of the internal Avamar server processes such as: Avamar Administrator (used to manage the Avamar Server from a gui), cron jobs, DNS, NTP, external authentication, web access, MCS and EMS.

MCS (Management Console Server) provides centralized management including scheduling of backups, restore of backups, monitoring and reporting.

EMS (Enterprise Manager Server) provides web based management for multiple Avamar Servers as well as monitoring and configuration for Avamar Replication.

Web Access provides access to documentation, backup plug-ins as well as remote File System restore access to end users.

Are next type of node is the Storage Node, which run a process called gsan. This service communicates with the avtar command on the individual backup clients. Avtar communicates with a storage nodes gsan process, then that storage node spreads the data across the available data nodes.

A Spare Node is an active node that is present in a multi-node RAIN (Redundant Array of Independent Nodes) grid. The interesting thing about the Spare Node is that it is NOT a hot spare. There is a procedure in place that needs to be

followed when a failed Storage Node occurs. In fact, the Avamar Server doesn't even care if the Spare Node is powered on, so if you are a "Green" conscience company, feel free to leave the Spare Node powered down. EMC Best



Practice is

to leave the Spare Node up and active though. Avamar Backups clients can be installed with 2 different types of client plug-ins: File System and Databases. The Avamar client uses 2 processes in the backup and restore process: Avtar and

Avagent. The Avagent process listens for backup/restore work orders from the MCS service on the Utility Node using port 28002 and executes the avtar command that handles the backup/restore processes and communicates with the

gsan service on the storage nodes. This process is depicted in the included picture above.

Lastly, in a previous blog, I discussed the 2 different licensable options for Avamar and how the disks are comprised in each Storage Nodes type. These are depicted in the picture above as well as a breakdown of how the disks are structured.

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### QUESTION 3

Due to a scheduling conflict, an EMC Avamar administrator had to cancel the backup of a client using the Avamar Administration GUI. What happens to the backup data that had already been sent to the Avamar server?

- A. Data is retained for seven days as a partial backup
- B. Chunks from the incomplete backup will be removed at the next garbage collection
- C. Data is retained for the remainder of the retention policy that was used for the backup
- D. Data is tagged "corrupted" and will be marked recoverable at the next HFS check

Correct Answer: A

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### QUESTION 4

You are adding new nodes to an EMC Avamar server. You are now ready to join the new nodes to the GSAN. Which command is used?

- A. start.nodes
- B. start.dpn
- C. rebuild.nodes
- D. avmaint autorestart

Correct Answer: A

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### QUESTION 5

Which RAID level is used in an EMC Avamar 7.8 TB single-node server?



- A. 1
- B. 5
- C. 6
- D. 10

Correct Answer: A

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