

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

Backup and Recovery - Avamar Specialist Exam for Storage Administrators

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## QUESTION 1

How many total concurrent backup jobs can be run on an EMC Avamar server?

- A. 17 backup jobs per storage node
- B. 17 backup jobs per storage node, plus 1 per Avamar server
- C. 18 backup jobs per storage node
- D. 18 backup jobs per storage node, minus 1 per Avamar server

Correct Answer: D

<p><code>max_concurrent_jobs</code></p>	<p>Maximum number of concurrent jobs for the entire system. The default setting is 250. This setting is correct for a base (2x7) multi-node Avamar system. It is derived by multiplying the maximum number of jobs allowed per node (typically 20, as defined by <code>max_jobs_per_node</code>) by the number of storage nodes in each module (there are seven storage nodes in a base multi-node Avamar system).</p>
<p><code>max_jobs_per_node</code></p>	<p>Maximum number of concurrent jobs that a single storage node is allowed to process. The default setting is 80 jobs per node.</p>

Avamar Desktop/Laptop environments include more clients than traditional Avamar systems. The Avamar Administrator server allows a maximum of 72 concurrent backup connections for each active storage node. The Avamar server reserves one connection for restores.

## QUESTION 2

A customer has a remote client with over 4 TB of file data that needs to be backed up to a local Avamar server.

What is a best practice to perform the initialization?

- A. Wait for any other backups to complete, then start the backup of the remote site
- B. Start the initial backup and allow overtime on the server

- C. Start the initial backup of remote client across the LAN
- D. Start with a subset of data and gradually keep increasing the data per backup

Correct Answer: D

Best Practices for Adding Large Filesystem Clients -Ensure the file cache is sized properly -Work with support / account teams to investigate using cache prefixing for clients with many millions of files -For initial backups: On low capacity grids, use overtime to allow the backup to complete On higher capacity grids, allow the client to time out daily and rely on partial backups For clients that will not complete within 7 days, start with a small dataset and gradually add more files and directories to avoid issues with partials backups expiring before the initial backup completes -For incremental backups: Typical backup performance is about 1 million files per hour Generally the client disk performance is the bottleneck but be sure to confirm the bottleneck before making any performance tweaks

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### QUESTION 3

Which port on the Avamar server does the client connect to when performing a backup with encryption enabled?

- A. 27000
- B. 28001
- C. 28002
- D. 29000

Correct Answer: D

**Table 30** Required ports on an Avamar storage node

Port	Protocol	Service name	Source	Additional information
22	TCP	SSH	<ul style="list-style-type: none"> <li>Administrator computers</li> <li>Other Avamar server nodes</li> </ul>	Secure shell access.
1080	TCP	3ware RAID management	Web browser clients	Nodes with legacy Axion-M or Axion-E hardware only. Only allow access from trusted administrator computers.
19000-19500	TCP/UDP	GSAN	Avamar server nodes	GSAN communication.
20000-20500	TCP/UDP	GSAN	Avamar server nodes	GSAN communication.
25000-25500	TCP/UDP	GSAN	Avamar server nodes	GSAN communication.
26000-26500	TCP/UDP	GSAN	Avamar server nodes	GSAN communication.
27000	TCP	Avamar server	<ul style="list-style-type: none"> <li>Avamar client computers</li> <li>Avamar nodes acting as a replicator source</li> </ul>	GSAN communication.
29000	TCP	Avamar server SSL	Avamar client computers	GSAN communication.

**QUESTION 4**

What is the access mode of the server during an EMC Avamar checkpoint maintenance activity?

- A. Read-only during checkpoint creation. Read/write for the remainder of the activity.
- B. Read-only throughout the activity.
- C. Access is disabled throughout the activity.
- D. Access is disabled during checkpoint creation. Read-only for the remainder of the activity.

Correct Answer: A

**QUESTION 5**

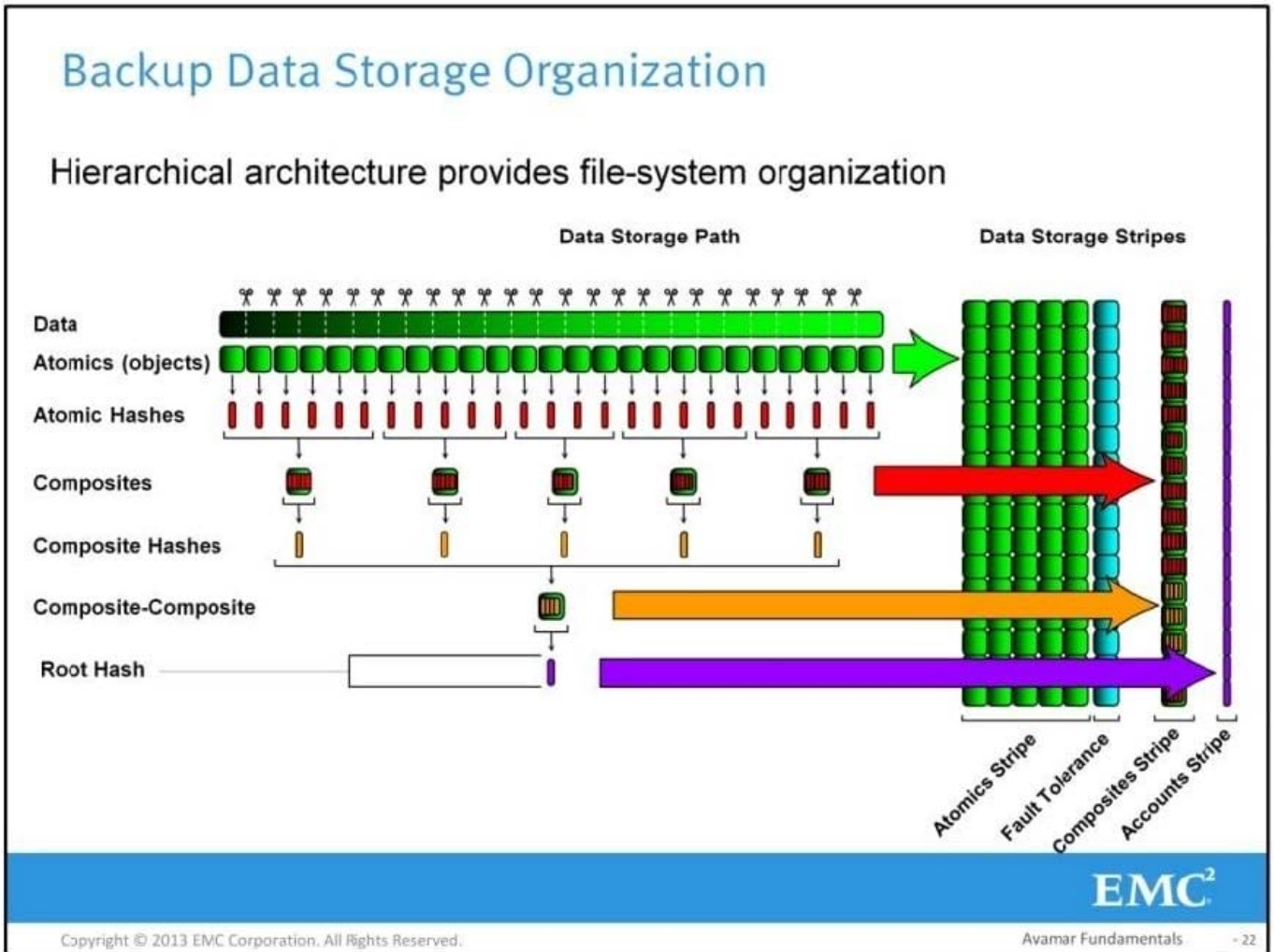
Which hash type represents an individual data chunk processed during an EMC Avamar backup?

- A. Atomic
- B. Root
- C. Composite

D. Metadata

Correct Answer: A

Hashes are used to store and find data objects. Three types of hashes are created during a backup: atomic, composite, and root. The hash created directly from a data chunk is referred to as an **atomic hash**. Atomic hashes are combined into composites and hashed to create **composite hashes**. All the composite hashes are combined and hashed once more to create a single **root hash** for the backup.



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