

E20-598^{Q&As}

Backup and Recovery - Avamar Specialist Exam for Storage Administrators

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QUESTION 1

What is a characteristic of EMC Avamar VMware Image backups?

- A. Only one proxy server is supported per vCenter server
- B. File-level restores are supported for Linux clients only
- C. Change Block Tracking can be used to shorten backup times
- D. The Avamar client is installed on each VMware virtual machine

Correct Answer: C

QUESTION 2

What is the correct order of activities performed during the EMC Avamar maintenance window?

- A. Garbage collect, checkpoint, HFS check, checkpoint
- B. Garbage collect, checkpoint, HFS check only
- C. Checkpoint, HFS check, garbage collect only
- D. Checkpoint, HFS check, checkpoint, garbage collect

Correct Answer: A

The **maintenance window** is reserved for maintenance activities, primarily garbage collection, checkpoint creation, and HFS check. A limited number of backups may be initiated, but both backup time and maintenance activities will be impacted. By default, the maintenance window runs during the day from 8 am to 8 pm.

Maintenance activities

Avamar server maintenance comprises three essential activities:

- ◆ **Checkpoint**—A checkpoint is a snapshot of the Avamar server taken for the express purpose of facilitating server rollbacks.
 - ◆ **Checkpoint validation** (also known as HFS check)—A Hash File System check (also known as HFS check) is an internal operation that validates the integrity of a specific checkpoint. Once a checkpoint has passed an HFS check, it can be considered reliable enough to be used for a server rollback.
 - ◆ **Garbage collection**—Garbage collection is an internal operation that recovers storage space from deleted or expired backups.
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QUESTION 3

Avamar client network requirements

The following table describes the network requirements for Avamar client computers. For each row in Table 36, the Avamar client computer is the source and must have access to the listed port on the listed destination.

Table 36 Network requirements for Avamar client computers (page 1 of 2)

Port	Protocol	Destination	Additional information
53	TCP/UDP	DNS	Required for name resolution and DNS zone transfers.
80	TCP	Avamar server HTTP service	Required to use the web browser UI of Avamar Desktop/Laptop and the web browser UI of Avamar Web Restore.
123	UDP	NTP time servers	Provides clock synchronization from network time protocol servers.
443	TCP	Avamar server HTTPS service	Required to use the web browser UI of Avamar Desktop/Laptop and the web browser UI of Avamar Web Restore.
3008	TCP	Active archive service on Data Domain system	Only required when backups are stored on a Data Domain system, and the active archive feature is enabled.
8105	TCP	Avamar server	Used by Avamar Desktop/Laptop.
8109	TCP	Avamar server	Used by Avamar Desktop/Laptop.
8181	TCP	Avamar server HTTP redirect port	Required to use the web browser UI of Avamar Desktop/Laptop and the web browser UI of Avamar Web Restore.
8444	TCP	Avamar server HTTPS redirect port	Required to use the web browser UI of Avamar Desktop/Laptop and the web browser UI of Avamar Web Restore.

Table 36 Network requirements for Avamar client computers (page 2 of 2)

Port	Protocol	Destination	Additional information
27000-27500	TCP	Avamar server	GSAN communication.
28001	TCP	Avamar server	CLI commands from client computers.
29000	TCP	Avamar server	GSAN communication.

What is the smallest supported RAIN configuration for EMC Avamar?

- A. 1 utility node, 0 spare nodes, 3 storage nodes
- B. 1 utility node, 0 spare nodes, 1 storage node
- C. 1 utility node, 1 spare node, 4 storage nodes
- D. 1 utility node, 1 spare node, 2 storage nodes

Correct Answer: A

Also known as the Non-RAIN (Redundant Array of Independent Nodes) configuration. This is the entry level configuration in which the single node acts as the utility node and the data storage node. When using this configuration 2 single

nodes are needed. 1 is the main backup node, and the 2nd is used for replication purposes for fault tolerance. Used in

small to medium sized environments.

Muti-Node Non RAIN.

This is basically is a 3 node setup consisting of 1 Utility Node and 2 Data Storage Nodes. It allows for double the storage capacity of a Single Node device. This configuration also needs a duplicate setup for replication, so a total of 6 Nodes

would be needed for fault tolerance. Used in medium sized environments.

Multi-Node RAIN.

The Standard RAIN configuration has 1 Utility Node, 4 Data Storage Nodes and 1 Spare Node. This configuration can be expanded for a total of 16 Data Storage Nodes max. All of the nodes work together to balance the storage equally

across all of the other Data Storage Nodes. This architecture is easily scaled by adding as many Storage nodes as necessary. Typically used in large environments, this configuration can be initially setup with 3 Storage nodes instead of the

standard 4 Storage nodes. It is recommended to setup a duplicate Multi-Node RAIN for replication, typically at a DR site. Although it is recommended, it is not a necessity like the Non-RAIN configurations, because there is a spare node that

can be configured at any point for fault tolerance.

QUESTION 4

A storage administrator has successfully configured EMC Avamar to use Microsoft Windows Active Directory external authentication. Which accounts and/or interfaces can be accessed by users set up to use this authentication?

- A. Avamar Administrator, Enterprise Manager, and Web Access
- B. MCUser, admin, and Enterprise Manager
- C. Avamar Administrator, root, and dpn
- D. MCUser, Web Access, and root

Correct Answer: A

QUESTION 5

What are the Avamar 6 install and upgrade rules for Gen1 through Gen4 node technology?

- A. Gen4/3 can be installed new or upgraded. Gen2 can be upgraded only. Gen1 cannot be installed new or upgraded.
- B. Gen4 can only be installed new. Gen3/2 can be installed new or upgraded. Gen1 cannot be installed new or upgraded.
- C. Gen4 can be installed new or upgraded. Gen3/2/1 can only be upgraded.
- D. Gen4 can only be installed new. Gen3/2 can only be upgraded. Gen1 cannot be installed new or upgraded.

Correct Answer: A

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