E20-598$^{\text{Q\&As}}$

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

max_concurrent_jobs	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 max_jobs_per_node) by the number of storage nodes in each module (there are seven storage nodes in a base multi-node Avamar system).
max_jobs_per_node	Maximum number of concurrent jobs that a single storage node is allowed to process. The default setting is 80 jobs per node.

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

Which interface is used to start Avamar Client Manager?

A. Enterprise Manager

B. Command Line

C. cron job

D. Avamar Administrator

Correct Answer: A

Starting Avamar Client Manager

Avamar Client Manager is started from either Backup & Recovery Manager or Avamar Enterprise Manager.

Starting from Backup & Recovery Manager

To start Avamar Client Manager from Backup & Recovery Manager:

1. Log in to Backup & Recovery Manager.

2. On the Backup & Recovery Manager banner bar, click **Launch**.

3. On the **Launch** menu, click **Client Manager**.

Avamar Client Manager appears in a new tab or window and opens the **Overview** page.

Starting from Avamar Enterprise Manager

To start Avamar Client Manager from Avamar Enterprise Manager:

1. Log in to Avamar Enterprise Manager.

2. On the Avamar Enterprise Manager menu bar, click **Client Manager**.

Avamar Client Manager appears in a new tab or window and opens the **Overview** page.

QUESTION 3

A company has 50 clients backing up to an EMC Avamar server. The storage administrator has decided to enable desktop/laptop (DTLT) support for several of the Microsoft Windows client machines. Where is this support enabled?

A. Avamar client software installation

B. Avamar Windows Client Options menu

C. Avamar Administrator Policy window

D. Windows File System plug-in

Correct Answer: A

QUESTION 4

On a single-node Gen4 EMC Avamar Data Store, what is the optional use of the GB2 port?

A. Outgoing replication

B. MC and administrative traffic

C. High availability

D. Connection to the internal switch

Correct Answer: A

QUESTION 5

An EMC customer has a backup environment with the following characteristics: Multi node Avamar Data Store version 7.0 Image-level backups for VMs with VADP Integration with EMC Data Domain File system backups stored in Avamar Database and VM images backed up to Data Domain with Avamar

What benefit does the customer have with this setup?

A. Database restores can be run from VM Image Backups

B. VMs can be booted without restoring from backups

C. File level restores from Data Domain are possible for all client OS

D. Avamar checkpoints can be stored to a Data Domain

Correct Answer: B

QUESTION 6

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

QUESTION 7

According to EMC best practices, what is the maximum percentage of physical RAM that should be allocated for the hash and file caches combined?

A. 15

B. 25

C. 30

D. 40

Correct Answer: B

QUESTION 8

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

QUESTION 9

In which directory are the Avamar data server log files located in a multi-node Avamar server?

A. /data01/cur on each storage node

B. /sysinfo/log on the utility node

C. /data01/cur on the utility node

D. /var/log on each storage node

Correct Answer: A

QUESTION 10

Which processes are started automatically during an EMC Avamar Windows client installation?

A. avagent and avscc only

B. avtar and avagent only

C. avtar, avagent, and avscc

D. avscc and avtar only

Correct Answer: A

QUESTION 11

An EMC Avamar backup administrator is logged in as root. The administrator is running a mapall date command to all nodes, all of which respond with a password prompt.

Which SSH keys need to be loaded?

A. dpnid account

B. MCUser account

C. root account

D. customer\\'s account

Correct Answer: A

QUESTION 12

An EMC Avamar customer, without premium support, has a requirement to be able to recover from a failed storage node. What is the minimum amount of nodes, of all types, that is required to support this functionality?

A. 1

B. 2

C. 3

D. 5

Correct Answer: D

Single Node.

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.

- In an multi-node system (1 utility node & 3 storage nodes or more), Avamar provides failover and fault tolerance across all nodes using **RAIN** (redundant array of independent nodes). If a node failure occurs, the Avamar Server continues to function, during this time, backup data for recovery will be reconstructed on the remaining nodes using parity. Once the failed node is replaced (a spare node is always included in a RAIN configuration), the capacity across all disks can be rebalanced using a very simple process.
- Stand-alone configurations or what is referred to as 1×2 configurations (which are made up of 1 utility node and 2 storage nodes) do not have the luxury of the RAIN configuration to protect from a node failure so EMC **requires** that the Avamar be configured with **Replication**. Replication is the 3rd type of fault tolerance and is optional for RAIN configurations but come in handy when you have multiple remote offices that you want to replicate to a centrally managed location for protection against server failure. If your stand-alone Avamar Server or 1×2 Avamar Server were to fail, your backups would be unavailable until the failed node was replaced and the disaster recovery Avamar (that you were replicating too) was replicated back to the production site. In summary, to take advantage of the RAIN fault tolerance, it is important that you remember that you **MUST** have a Utility Node and atleast 3 Storage Nodes. As for the stand-alone Avamar Server or 1×2 Avamar Server, RAIN is not available and it is highly recommended to use replication to a second Avamar Server onsite or preferably offsite for fault tolerance.

QUESTION 13

By default, which port is required to be open on the firewall for client communications with the EMC Avamar utility node?

A. 7778

B. 27000

C. 28001

D. 29000

Correct Answer: C

Port	Protocol	Service name	Source	Additional information
28001	TCP	Avamar server CLI	Avamar client computers	CLI commands from client computers.

QUESTION 14

Which port does EMC Avamar use to access the Management Console database for reporting?

A. 5555

B. 7778

C. 8443

D. 8080

Correct Answer: A

QUESTION 15

In EMC Avamar 6.0, which tool is used to completely move clients to a new Avamar server?

A. Client Manager

B. Enterprise Manager

C. Activation Manager

D. Avamar Administrator

Correct Answer: A

Clients page

Avamar Client Manager's **Clients** page provides information and tools for working with Avamar clients.

From the **Clients** page you can:

- Select the computers in your enterprise's domain and add them as Avamar clients
- View detailed information about individual clients
- Move, retire, and delete clients
- Change a client's group associations
- Upgrade the Avamar software on the client

To navigate between the sections of the Clients page, select from the choices in the left-side menu.

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