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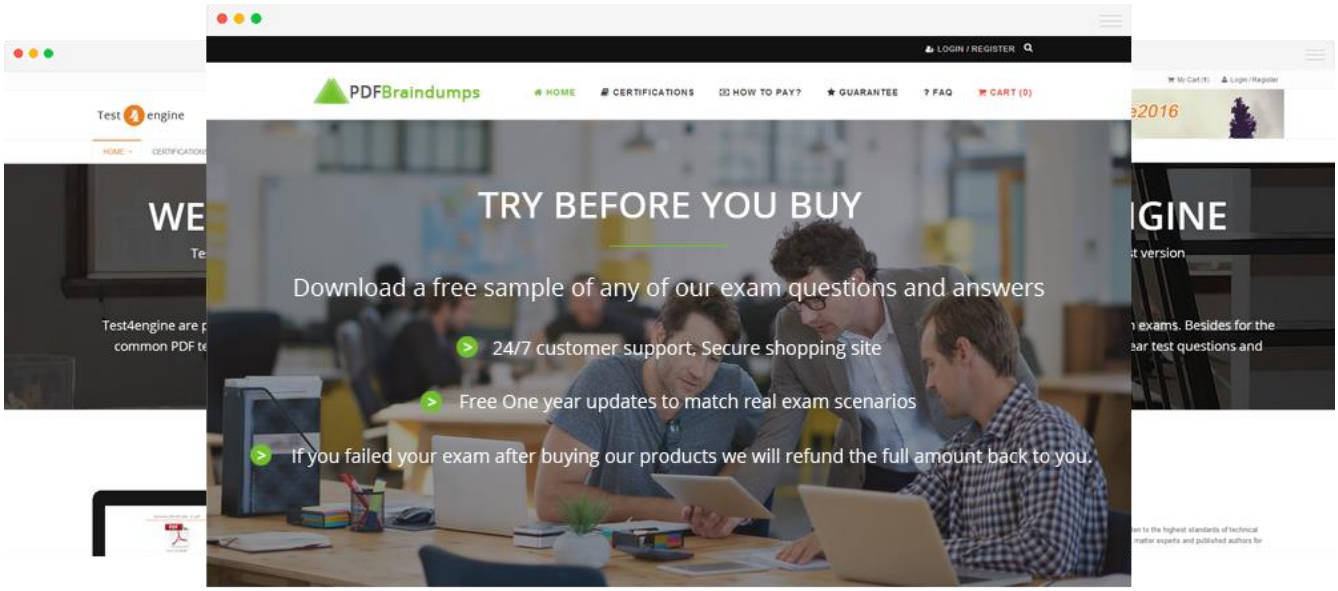

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Exam : **D-AV-DY-23**

Title : Dell Avamar Deploy 2023

Vendor : EMC

Version : DEMO

NO.1 Your readiness checks show that a customer's Gen4 Avamar server has entered a read-only status. To avoid data loss, which recommended state should the Avamar server be in before you can continue the "Add Node" procedure?

A. Known good controlled state

B. Read-only state

C. Steady state

D. Suspended state

Answer: A

NO.2 Which hash type represents an individual data chunk processed during an Dell Avamar backup ?

A. Atomic

B. Root

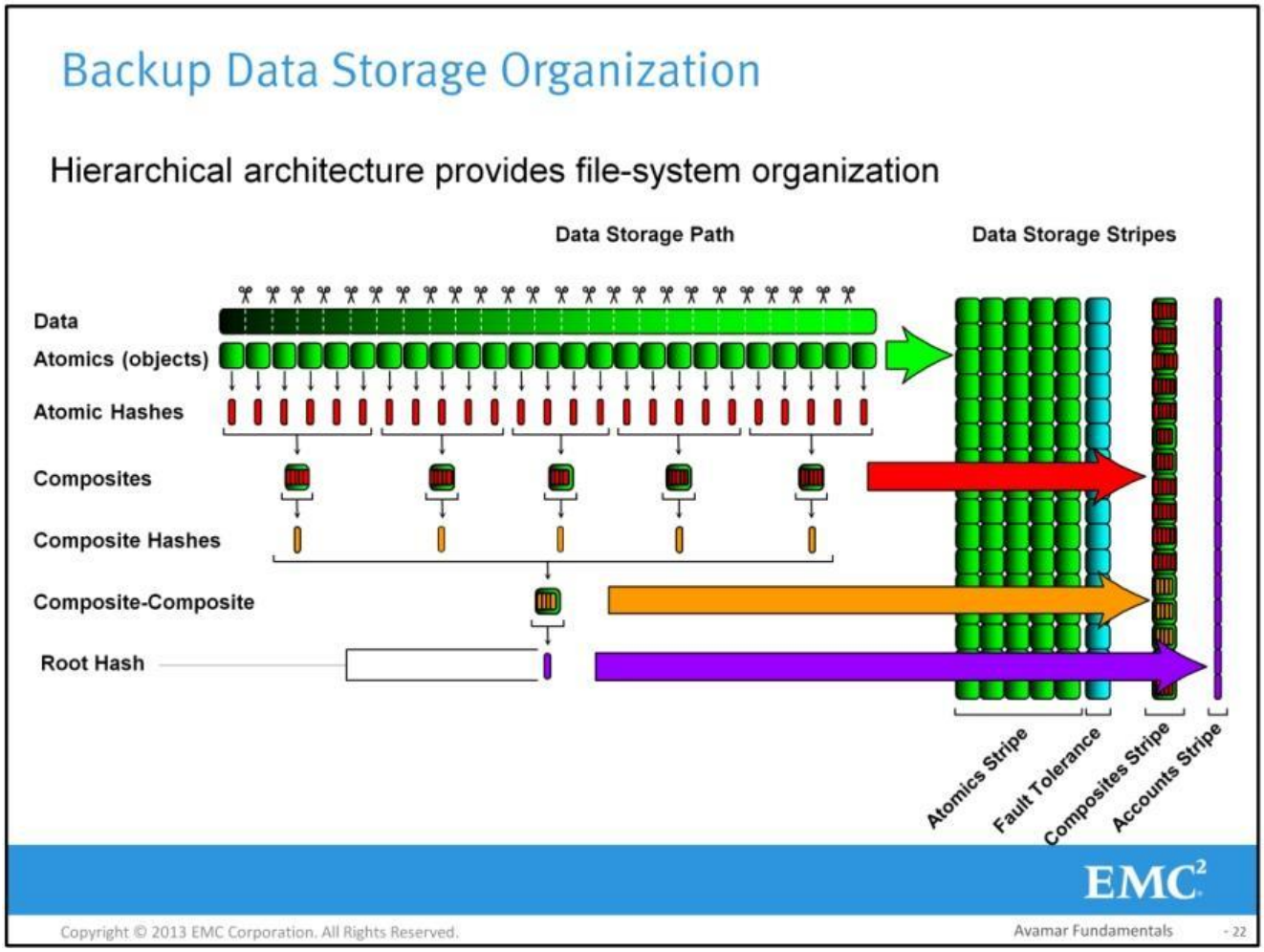
C. Composite

D. Metadata

Answer: A

Explanation:

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.



NO.3 An Dell Avamar storage administrator is creating a single dataset for all Microsoft Windows XP and Windows Vista desktop/laptop (DTLT) clients. In the source data, the administrator includes Which flag needs to be added to prevent the "Path not found" error?

A. #USERDOCS#

B. #FLAGFILEPATH#

C. #IGNORECONFIG#

D. #VARDIRFLAG#

Answer: A

NO.4 Which port on the Dell Avamar server does a client connect to when performing backups?

A. 7778

B. 7781

C. 27000

D. 28002

Answer: C

Explanation:

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.

NO.5 What is the lowest Dell Avamar Virtual Edition version that will support an average daily change rate of 1.5 GB in a file server environment?

A. 0.5 TB

B. 1.0 TB

C. 2.0 TB

D. 3.3 TB

Answer: A

Explanation/Reference:

Table 2 Maximum change rates AVE supports for file server and mixed environments

Configuration	File server data	Mixed data
0.5 TB AVE	Less than 2 GB per day	Less than 5 GB per day
1 TB AVE	Less than 4 GB per day	Less than 10 GB per day
2 TB AVE	Less than 8 GB per day	Less than 20 GB per day
4 TB AVE	Less that 20 GB per day	Less that 20 GB per day

NO.6 In which ways can Avamar Replication be configured?
A. Avamar Administrator, MCCLI, Enterprise Manager
B. Avamar Administrator, Enterprise Manager, BRM
C. MCCLI, BRM, Enterprise Manager
D. MCCLI, BRM, Avamar Administrator
Answer: B

NO.7 When data is being backed up to an Dell Data Domain system in an Avamar environment, where is the backup metadata stored?
A. On the Avamar grid
B. On the Data Domain
C. On the backup client
D. On both Avamar and Data Domain
Answer: A

NO.8 An Dell Avamar backup client is backing up the Windows file system and SQL database using the same dataset for their backup policy.
What backup behavior is expected to occur?
A. One backup is created, then executed
B. Two backups are created, then run one at a time
C. Two backups are created, then run simultaneously
D. Backup will fail; a backup group must be created for each backup type
Answer: B

NO.9 By default, which snapshots are retained?
A. All checkpoints created in the last two days
B. The two checkpoints created during the maintenance window plus two created outside the maintenance window
C. The last two including the last validated checkpoint
D. The last two validated checkpoints in the last two days
Answer: C
Explanation/Reference:

Backend capacity reports

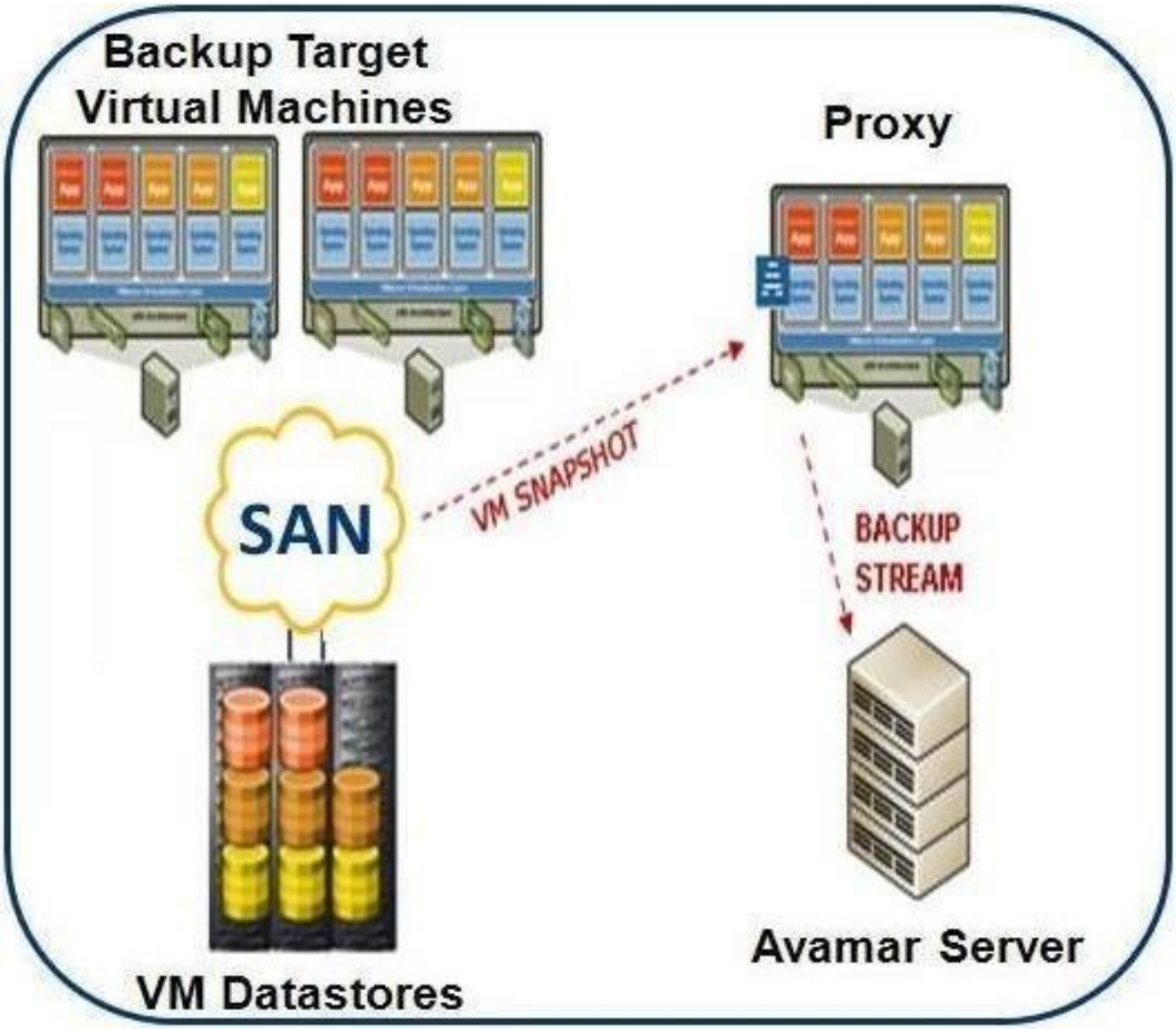
Backend capacity reports show the amount of physical server storage capacity used. This calculation includes capacity optimized by data deduplication, but does not include capacity consumed by RAIN overhead.

Each report can be configured to report on the entire Avamar server, specific Avamar domains, or specific Avamar clients.

There are two ways to run backend capacity reports:

- From Avamar Administrator
- From the command line using the **backendreport** utility

NO.10



Based on the exhibit, Which type of backup configuration is represented?

A. Image Level Backup with VADP (vSphere)
B. VMware Guest Level Backup
C. VMware Consolidated Backup (VCB)
D. VMware Console Backup
Answer: A

NO.11 What are members of an Dell Avamar group policy?
A. Dataset, Schedule, and Retention
B. Profile, Dataset, and Schedule
C. Clients, Profile, and Retention
D. Notification, Schedule, and Dataset
Answer: A

NO.12 What is an Dell Avamar best practice when performing an Microsoft Exchange 2003 Message Level restore of an individual message?
A. Restore to a temporary dedicated folder
B. Restore to the same folder
C. Restore to another Exchange database
D. Restore to a new temporary Exchange database
Answer: A

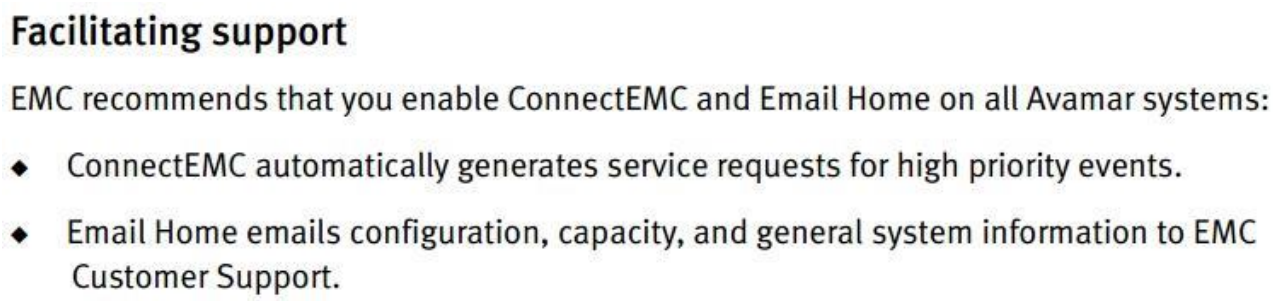
NO.13 Which role is used to perform and monitor restores?
A. Activity Operator
B. Backup/Restore User
C. Restore Only Operator
D. Restore Only User
Answer: C
Explanation/Reference:

Restore only operator

Restore only operators are generally only allowed to perform restores and to monitor those activities to determine when they complete and if they completed without errors.

NO.14 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
Answer: D
Explanation/Reference:

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.



NO.15 What is the smallest supported RAIN configuration for Dell 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

Answer: A

Explanation/Reference:

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.

NO.16 For each file that is backed up in an Dell Avamar system, how many total bytes are added to the file cache?

A. 20

B. 24

C. 40

D. 44

Answer: D

Explanation/Reference:

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

NO.17 An Dell Avamar system is integrated with an Dell 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
Answer: A

NO.18 What is the minimum physical memory that needs to be allocated to an Dell Avamar Virtual Edition with 1.0 TB of licensable capacity?
A. 2048 MB
B. 3072 MB
C. 4096 MB
D. 16384 MB
Answer: C
Explanation/Reference:
Table 3 Minimum requirements for AVE

	0.5 TB AVE	1 TB AVE	2TB AVE	4 TB AVE
Processors	Minimum two 2 GHz processors	Minimum two 2 GHz processors	Minimum two 2 GHz processors	Minimum four 2 GHz processors
Memory	6 GB	8 GB	16 GB	36 GB
Disk space	850 GB	1,600 GB	3,100 GB	6,100 GB
Network connection	1 GbE connection	1 GbE connection	1 GbE connection	1 GbE connection

NO.19 In which directory are the Dell Avamar administrator logs located?
A. /usr/local/avamar/server_log
B. /usr/local/avamar/var/log
C. /usr/local/avamar/var/mc/server_data
D. /usr/local/avamar/var/mc/server_log
Answer: D

Explanation/Reference:

Table 16 Single-node server log files (page 1 of 3)

Feature/function	Log file locations
Avamar Administrator server	/usr/local/avamar/var/mc/server_log/flush.log
	/usr/local/avamar/var/mc/server_log/restore.log
	/usr/local/avamar/var/mc/server_log/mcserver.log.#
	/usr/local/avamar/var/mc/server_log/mcserver.out
	/usr/local/avamar/var/mc/server_log/pgsql.log
	/usr/local/avamar/var/mc/server_data/postgres/data/pg_log/ postgresql-DATE_TIME.log
	/usr/local/avamar/var/mc/server_data/mcs_data_dump.sql

NO.20 A customer has three remote sites that contain large NAS mounted file systems. They would like to back up to their centrally located Dell Avamar server.
What is the recommended method for performing these backups?

A. Install NDMP accelerator nodes in each remote site, backing up to the centrally located Avamar grid over the WAN

B. Install an NDMP accelerator node at the central site for all remote site NDMP backups through the WAN links

C. Install Avamar client software on the NAS devices in each remote site, backing up to the centrally located Avamar grid over the WAN

D. Install Avamar client software on servers which have the file systems mounted and schedule the jobs through the Administrative Console GUI

Answer: A

NO.21 Based on Dell best practice, what is recommended when creating Avamar domains?

A. A minimal number of domains

B. A domain for every client

C. A domain for each file system

D. A sub-domain for each hardware platform

Answer: A

NO.22 By default, what percentage of file system storage space is reserved for operating systems and checkpoint overhead on an Dell Avamar server?

A. 10%

B. 20%

C. 35%

D. 50%

Answer: C

Explanation/Reference:
The OS View is the total file system in the Avamar, while the gsan View is the total allocated to stripes. Gsan view is 65% of the Avamar server and it is used mainly for user data - this is the licensed capacity. Above that, 20% of the system file space is used for checkpoint overhead and the remaining 15% is for the operating system.
http://gregandthenetwork.blogspot.com/2013/11/managing-avamar-server-capacity.html

NO.23 When sizing a large file server on an Dell Avamar, how many bytes per file are added to the file cache?
A. 20
B. 24
C. 40
D. 44
Answer: D
Explanation/Reference:
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 Avamar 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.
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http://jslabonte.blogspot.com/2013/08/avamar-and-large-dataset-with-multiples.html

NO.24 What is the recommendation for configuring the virtual disks for Dell Avamar Virtual Edition?
A. Thick provisioned with eager zeroed
B. Thin provisioned with eager zeroed
C. Thick provisioned with lazy zeroed
D. Thin provisioned with lazy zeroed
Answer: A