



Vendor: EMC

Exam Code: E20-329

Exam Name: Technology Architect Backup Recovery Solutions Design Exam

Version: DEMO

1. An EMC Avamar customer's Gen-1 system with 4 TB of GSAN capacity has reached read-only threshold. The customer indicates that the deduplicated backup data accounts for approximately 3.5 TB.

What is the most likely cause for the read-only threshold being reached?

- A. Deduplication rate is less than expected, accounting for the remaining GSAN capacity
- B. Combination of system overhead, logs, and checkpoints account for the remaining GSAN capacity
- C. RAIN overhead accounts for the remaining available GSAN capacity
- D. Checkpoints and logs account for the remaining GSAN capacity

Answer: C

2. A customer has an operational EMC NetWorker environment using an Avamar deduplication node. They want to protect the Avamar deduplication node using replication. The customer has approached EMC for advice on what considerations they should take into account.

What is a consideration in this environment.?

- A. NetWorker automatically configures all replication targets associated with a given deduplication node
- B. Scheduled replications of a NetWorker deduplication node must be set up in Avamar
- C. Recovery from the replications node must be performed from Avamar Administrator
- D. Scheduled replications of a NetWorker deduplication node must be set up in NetWorkwe

Answer: B

3. The EMC account team has been asked to design a NetWorkwwe backup solution with the following requirements.

- 1. One copy of backup data needs to be stored locally.
- 2. An additional copy of backup data needs to be stored on tape at an offsite location.

What should be done to satisfy the new regulations with minimal impact to the current backup performance?

- A. Clone to tape and send the clone copy to the remote location
- B. Back up the data concurrently to the remote and local locations
- C. Archive the backup data to the remote location
- D. Archive the data to the remote location before being backed up locally

Answer: C

4. An organization is backing up a combination of databases, e-mail, and file system data types in their data center to a Data Domain appliance using a single backup server. The backup system administrator creates separate subdirectories for each of the three data types under the default share.

What benefit is provided by this approach?

- A. Analyze compression with more granularity
- B. Simplify backup device configuration
- C. Enhance performance of the database backup

D. Improve file system cleaning performance

Answer: B

5. Click the Calculator icon in the upper left-hand corner.

A customer has a new Avamar server with four 2 TB data nodes. This server is backing up two Avamar clients. The first client has 8 GB of RAM and two file systems. The first file system has 3 million files consuming 75 TB. The second file system contains 5 million files consuming 1 TB of space.

The second client has 10 GB of RAM and one file system containing 4 million files consuming 1.2 TB of space. Both clients will belong to the same backup group. How long will the steady-state backup group be expected to run?

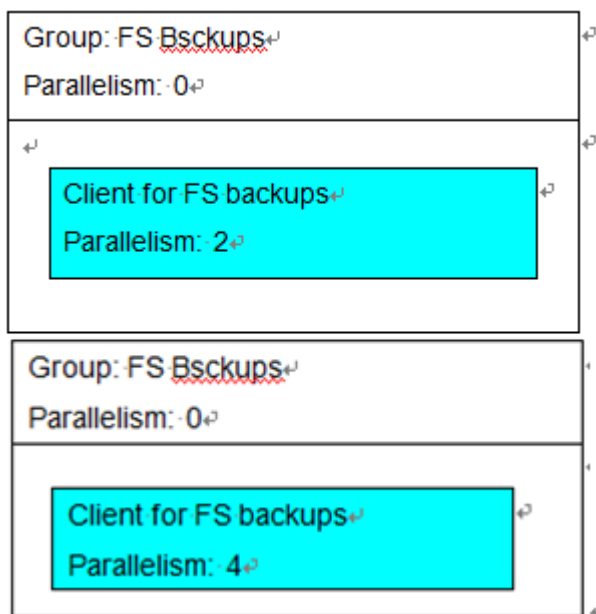
- A. 5 hours
- B. 6 hours
- C. 7 hours
- D. 8 Hours

Answer: B

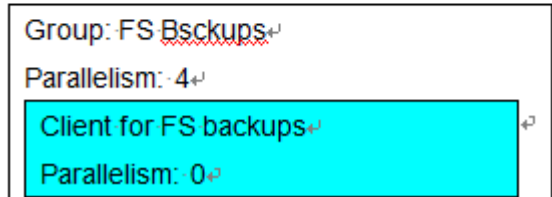
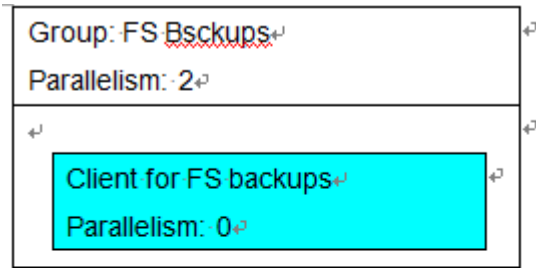
6. An EMC NetWorker customer wants to use the deduplication option. The requirement for a database server in their environment is to perform deduplication backups for file system data and NetWorker tape backups for database data. They want to allow a maximum of two parallel streams for file system backups and a maximum of four streams for database backups.

How can this be accomplished?

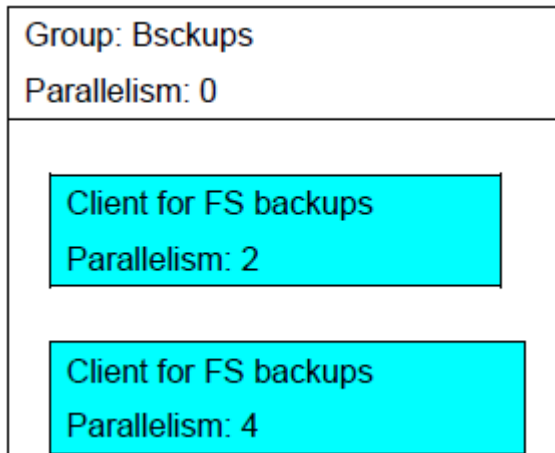
A.



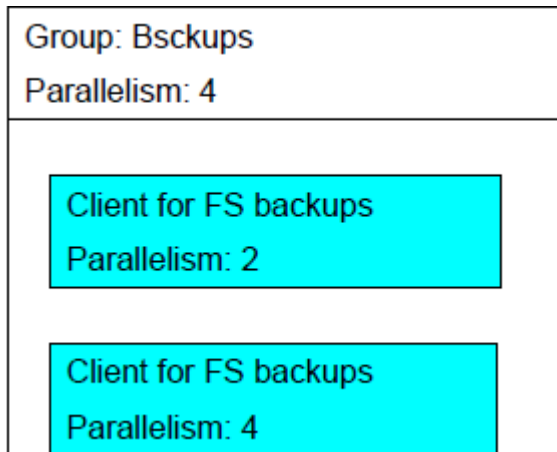
B.



C.

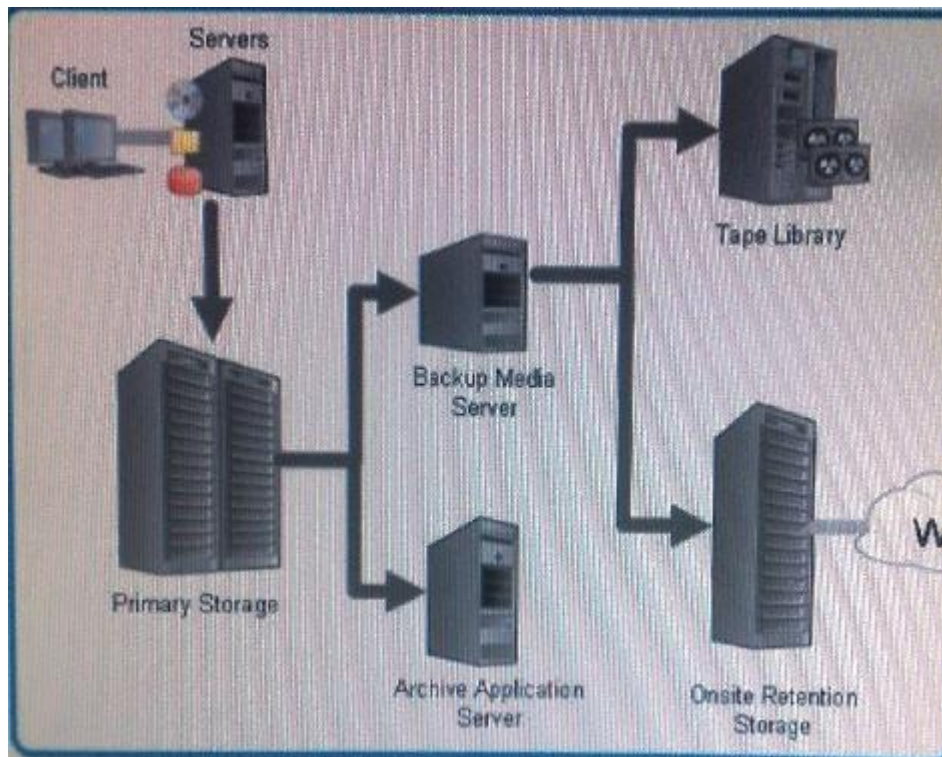


D.



Answer: C

7. As illustrated in the exhibit, a customer has a backup environment that includes clients and server managed by a backup media server. Data is written to a primary storage device and archived to an application server. The customer has onsite retention storage, which is replicated to a disaster recovery site. In addition, archive-to-tape is required.



Which components would you replace when initiating a Data Domain solution?

- A. onsite retention storage and offsite disaster recovery storage
- B. Backup media server and clients
- C. Primary storage and onsite retention storage
- D. Backup media server and archive application server

Answer: A

8. A customer has a Data Domain appliance that has reached 90% of maximum capacity. The customer does not want to purchase any additional storage.

What will increase the average available capacity of the Data Domain appliance?

- A. Decrease the backup retention period
- B. Increase the snapshot expiration period
- C. Increase the number of streams
- D. Decrease the cleaning frequency

Answer: A

9. A customer is piloting a Data Domain appliance and notices that performance in the writing of backups is not optimal. Based on the System Show Performance metrics represented in the exhibit, which operation will provide the most improved performance?

===== SYSTEM SHOW PERFORMANCE =====												
		-----Throughput (MB/s)-----			---Utilization---				Compression		-----Ca	
Read	Write	Repl	Network	Repl	Pre-comp	proc	rcv	send	idle	gcomp	lcomp	thra un
		---In/out---		---In/out---								
0.2	17.0	0.02/	0.74	0.00/	67.95	99%	0%	0%	0%	6.4	1.6	5%
0.3	18.3	0.04/	1.46	0.00/	88.07	99%	0%	0%	0%	6.8	1.6	2%
0.2	14.1	0.12/	3.49	0.00/	153.47	99%	0%	0%	0%	5.7	1.6	1%
0.2	13.3	0.02/	0.68	0.00/	56.35	99%	0%	0%	0%	5.3	1.5	1%
0.2	12.5	0.03/	2.40	0.00/	79.23	99%	0%	0%	0%	5.4	1.5	3%
0.2	14.4	0.04/	3.55	0.00/	89.55	99%	0%	0%	0%	6.1	1.6	1%
0.2	14.2	0.02/	0.72	0.00/	58.74	98%	0%	0%	1%	5.9	1.5	1%
5.1	83.7	0.02/	0.76	0.00/	62.90	98%	0%	0%	1%	11.9	1.4	0%
6.8	99.8	0.12/	3.69	0.00/	150.16	92%	0%	0%	7%	7.9	1.5	2%

		-----Cache Miss-----		--Streams--			-State--	---Utilization----		
gcomp	lcomp	thra	unus	ovhd	data	meta	rd/wr/rw/x	'CDVMS'	CPU	disk
									avg/max -max-	
6.4	1.6	5%	27%	72%	7%	0%	52/2/ 0/14	--V--	18%/ 21%	[0] 7%[11]
6.8	1.6	2%	24%	59%	3%	0%	52/3/ 0/15	C-V-	21%/ 23%	[0] 5%[01]
5.7	1.6	1%	18%	54%	1%	0%	52/3/ 0/13	C-V-	40%/ 43%	[0] 16%[09]
5.3	1.5	1%	8%	53%	2%	0%	52/3/ 0/10	C-V-	37%/ 39%	[0] 15%[01]
5.4	1.5	3%	29%	62%	3%	1%	52/4/ 0/10	C-V-	32%/ 34%	[0] 18%[03]
6.1	1.6	1%	18%	54%	1%	0%	52/4/ 0/14	C-V-	39%/ 41%	[0] 15%[00]
5.9	1.5	1%	11%	52%	2%	0%	53/3/ 0/13	C----	38%/ 40%	[0] 14%[01]
11.9	1.4	0%	11%	51%	1%	0%	52/3/ 0/17	C----	61%/ 63%	[0] 14%[08]
7.9	1.5	2%	37%	59%	1%	0%	52/3/ 0/16	C-V-	67%/ 70%	[0] 18%[07]

- A. Reduce the read streams
- B. Suspend verification
- C. Disable cleaning
- D. Disable replication

Answer: A

10. A customer is using Data Protection Advisor (DPA) to monitor their backup environment. What is a benefit of using remote Collectors?

- A. Reduces the amount of information being transferred to the DPA server
- B. Collects system-related statistics for a given host
- C. Improves the collection performance of backup statistics
- D. Provides more complete backup reports

Answer: B