



# EMC

## E20-329 Exam

### Technology Architect Backup and Recovery Solutions Design Exam

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**Question: 1**

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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

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**Answer: C**

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**Question: 2**

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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 NetWorker

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**Answer: B**

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**Question: 3**

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The EMC account team has been asked to design a NetWorker 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

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**Answer: B**

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**Question: 4**

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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 moregranularity
- B. Simplify backup device configuration
- C. Enhance performance of the database backup
- D. Improve file system cleaning performance

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**Answer: A**

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**Question: 5**

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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

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**Answer: A**

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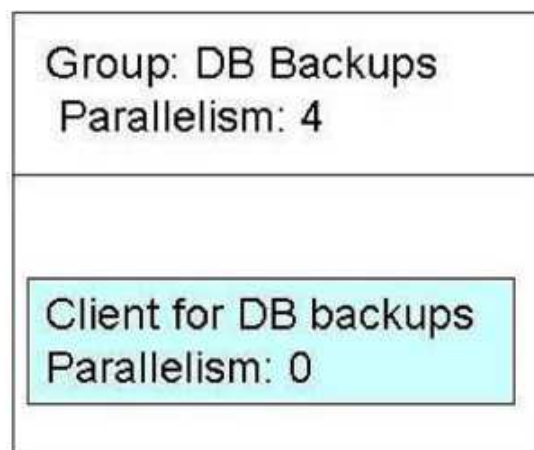
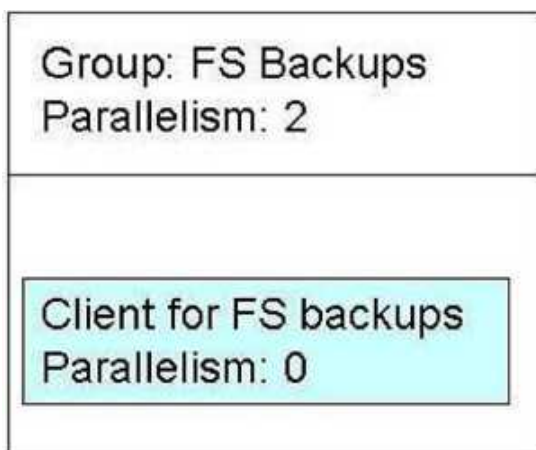
**Question: 5**

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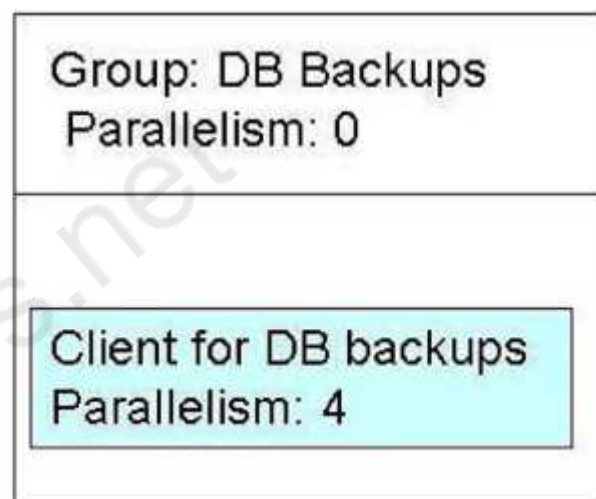
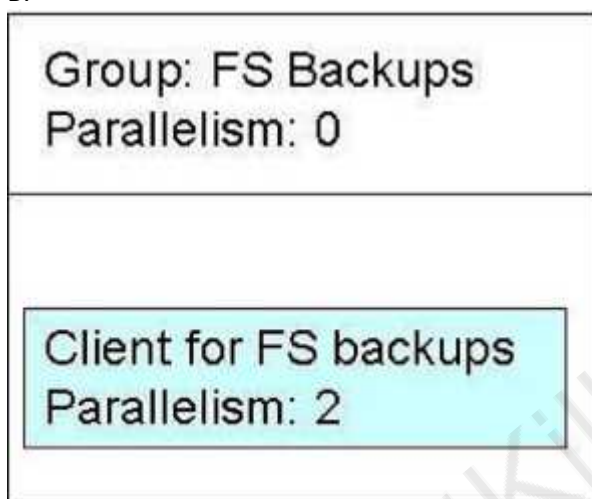
An EMC NetWorker customer wants to use the deduplication option. The requirement for a database server in their environment is to perform deduplication backups for file system data and NetWorker tape backups for database data. They want to allow a maximum of two parallel streams for file system backups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

How can this be accomplished?

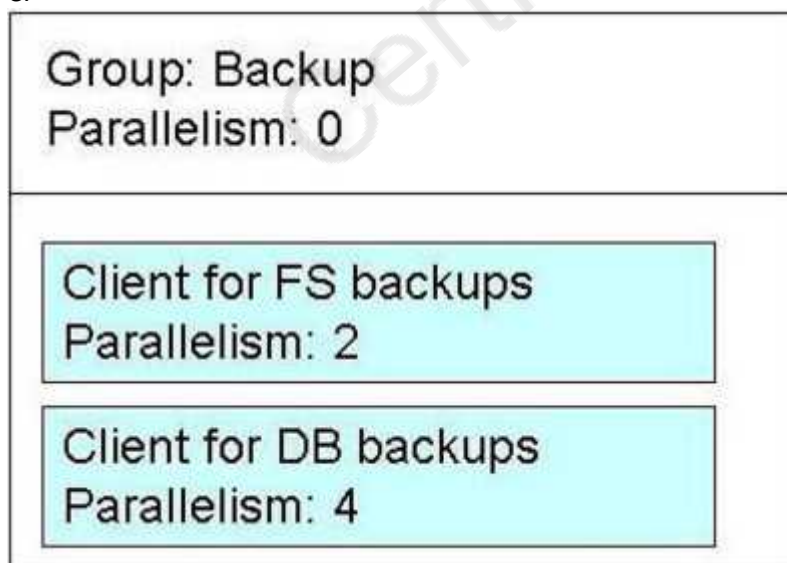
- A.



B.



C.



D.

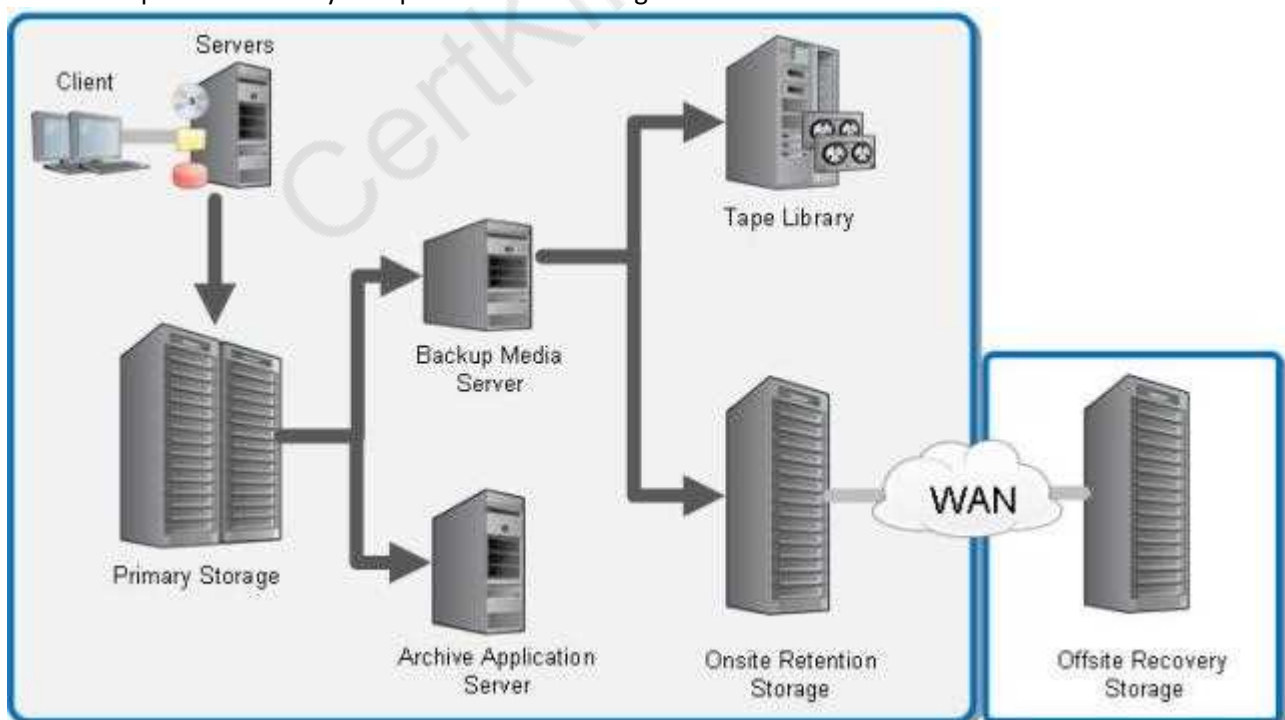
<p>Group: Backup Parallelism: 4</p>
<p>Client for FS backups Parallelism: 2</p>
<p>Client for DB backups Parallelism: 4</p>

**Answer: C**

**Question: 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**

**Question: 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**

**Question: 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 the most improved performance?

===== SYSTEM SHOW PERFORMANCE =====

-----Throughput (MB/s)-----		---Utilization---				Compression		-----Cache Miss-----				--Streams--		-State-	---Utilization----							
Read	Write	Repl	Network	Repl	Pre-comp	proc	recv	send	idle	gcomp	lcomp	thra	unus	ovhd	data	meta	rd/wr/nw/bx	'CDVMS'	CPU	disk		
-----In/out-----		-----in/out-----																				
				avg/max		-max-																
0.2	17.0	0.02/	0.74	0.00/	67.95	99%	0%	0%	0%	6.4	1.6	5%	27%	72%	7%	0%	52/2/	0/14	--V--	18%/	21%[0]	7%[11]
0.3	18.3	0.04/	1.46	0.00/	88.07	99%	0%	0%	0%	6.8	1.6	2%	24%	59%	3%	0%	52/3/	0/15	C-V--	21%/	23%[0]	5%[01]
0.2	14.1	0.12/	3.49	0.00/	153.47	99%	0%	0%	0%	5.7	1.6	1%	18%	54%	1%	0%	52/3/	0/13	C-V--	40%/	43%[0]	16%[09]
0.2	13.3	0.02/	0.68	0.00/	56.35	99%	0%	0%	0%	5.3	1.5	1%	8%	53%	2%	0%	52/3/	0/10	C-V--	37%/	39%[0]	15%[01]
0.2	12.5	0.03/	2.40	0.00/	79.23	99%	0%	0%	0%	5.4	1.5	3%	29%	62%	3%	1%	52/4/	0/10	C-V--	32%/	34%[0]	18%[03]
0.2	14.4	0.04/	3.55	0.00/	89.55	99%	0%	0%	0%	6.1	1.6	1%	18%	54%	1%	0%	52/4/	0/14	C-V--	39%/	41%[0]	15%[00]
0.2	14.2	0.02/	0.72	0.00/	58.74	98%	0%	0%	1%	5.9	1.5	1%	11%	52%	2%	0%	53/3/	0/13	C----	38%/	40%[0]	14%[01]
5.1	83.7	0.02/	0.76	0.00/	62.90	98%	0%	0%	1%	11.9	1.4	0%	11%	51%	1%	0%	52/3/	0/17	C----	61%/	63%[0]	14%[08]
6.8	99.8	0.12/	3.69	0.00/	150.16	92%	0%	0%	7%	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**

**Question: 10**

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

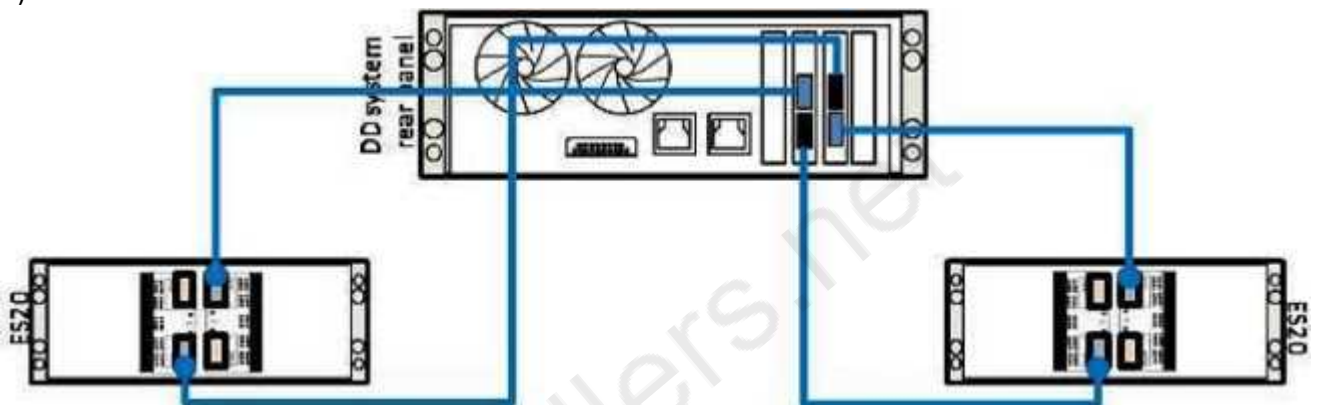
- A. Reduces the amount of information being transferred to the DPA server
- B. Collects system-related statistics for a given host
- C. Improves the collection performance of backup statistics
- D. Provides more complete backup reports

**Answer: B**

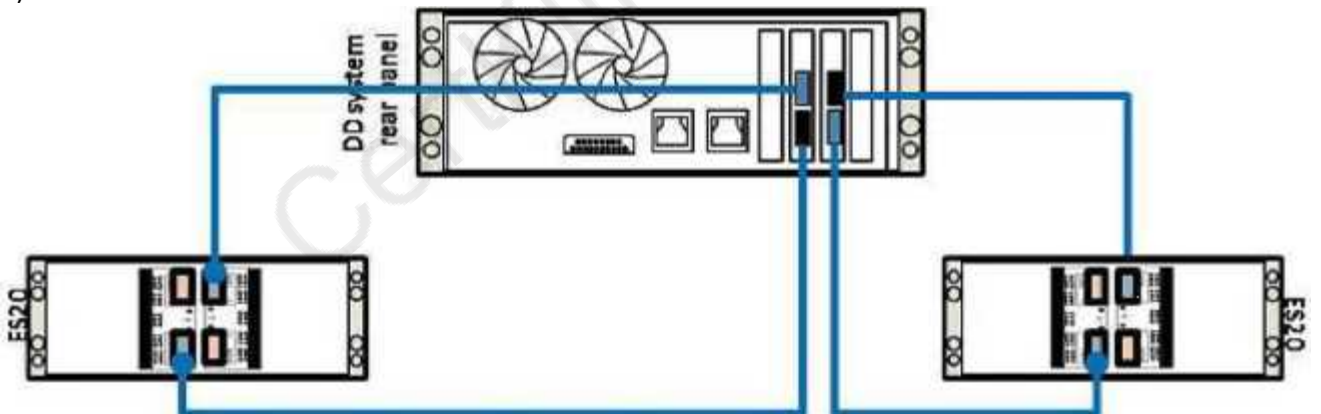
**Question: 11**

A customer is implementing a Data Domain system with two expansion shelves. They require that access to the data can be reached even when a single path fails. The customer does not want the HBA card to be the single point of failure.

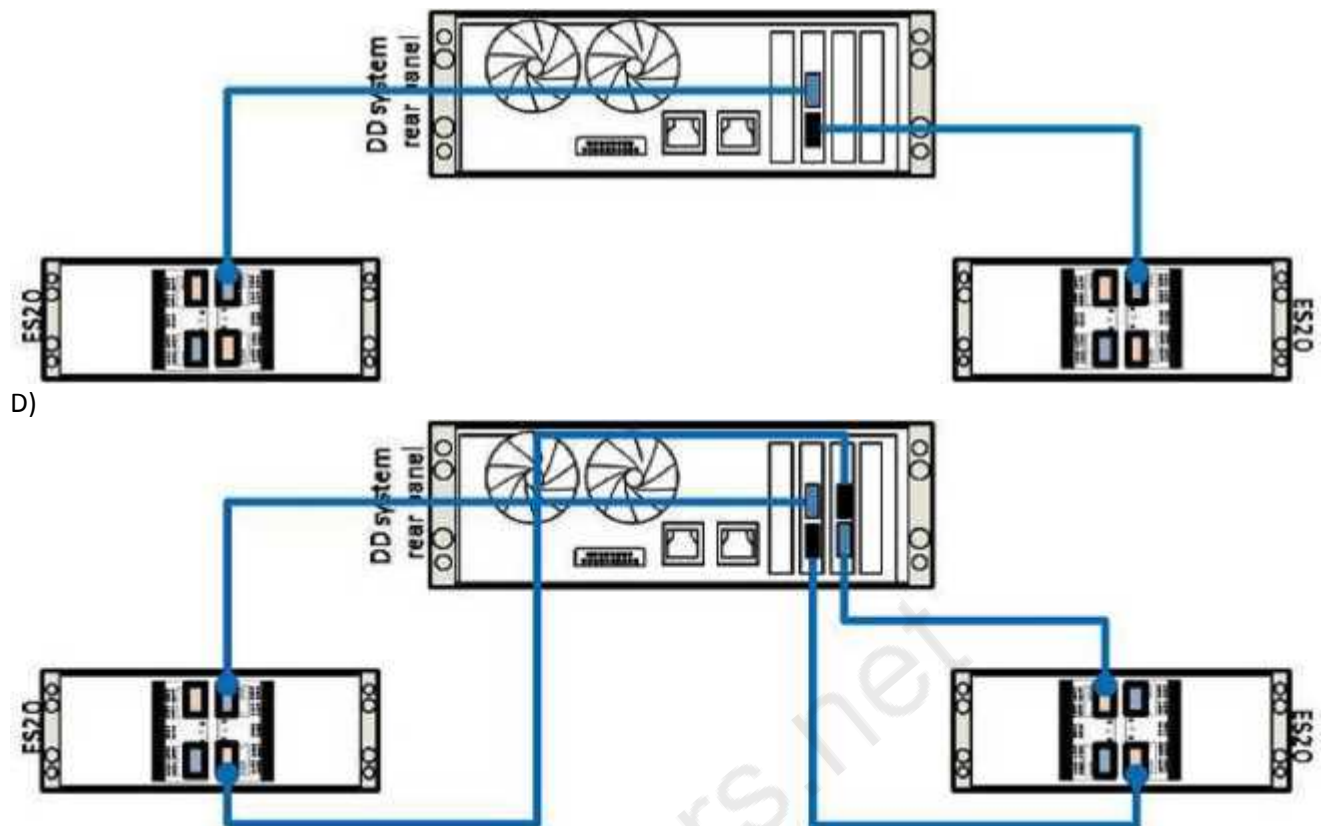
A)



B)



C)



- A. Option A
- B. Option B
- C. Option C
- D. Option D

**Answer: A**

**Question: 12**

The EMC account team has been asked to redesign a NetWorker backup solution. The existing backup environment consists of one NetWorker server and one storage node to back up approximately 80 clients. Over time, the amount of data increased, resulting in daily backups taking more than 24 hours to complete.

Analysis has determined that the tape infrastructure and the network are not the bottleneck. What would you recommend to improve the backup performance with minimal costs?

- A. Add a storage node and balance the clients across the storage nodes
- B. Add an EMC NetWorker server and balance the clients across the EMC NetWorker servers
- C. Configure the existing storage node as a dedicated storage node
- D. Change the backup schedules so that they start at different times during the day

**Answer: A**



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**Question: 13**

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Which critical network elements are assessed by the Network Assessment Tool?

- A. Tracert, Ping, and Packet Loss
- B. Latency, Latency Jitter and Packet Loss
- C. Latency, Load, and Latency Jitter
- D. Latency, Latency Jitter, and Tracert

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**Answer: B**

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**Question: 14**

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An EMC NetWorker customer performs all backups to physical. The customer backs up file systems, application servers, VMware guests multiple 10 TB database, and a large 20 TB NetApp filer. They have a primary and disaster recovery data center with an OC-12 circuit between the two sites.

The customer's physical tape libraries are approaching end of support life and they are looking to replace them with deduplication technology. In addition, they want to improve NDMP backup times for their 20 TB NetApp filer.

Which recommendation will address the customer's requirements?

- A. NetWorker deduplication for NDMP backups, databases, and application servers Data Domain for file systems and VMware
- B. NetWorker deduplication for file systems, VMware, and NDMP Data Domain for databases and application servers
- C. NetWorker deduplication for file systems, application servers, and VMware Avamar for NDMP Data Domain for databases
- D. NetWorker deduplication for NDMP Avamar for VMware Data Domain for databases, application servers, and file systems

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**Answer: D**

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**Question: 15**

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A customer has approached you to advise them on how their backup environment will integrate into their new iSCSI application server deployment. Which network characteristic would have the greatest impact on their backup environment?

- A. Dynamic DNS
- B. LDAP authentication domain
- C. Traffic segmentation
- D. IP version level

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**Answer: C**

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