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**Exam** : **E20-329**

**Title** : Technology Architect Backup  
and Recovery Solutions Design  
Exam

**Vendor** : EMC

**Version** : DEMO

NO.1 An EMC NetWorker customer wants to use Data Domain Boost to take advantage of less LAN traffic traversing the network.

However, after performing a backup, the LAN administrator noticed that the same amount of data is being transmitted from the storage node to the Data Domain as it is from the client to the storage node.

What needs to be enabled to take advantage of DD Boost on the storage node?

- A. Distributed Segment Processing on the Data Domain
- B. Distributed Segment Processing on the storage node
- C. DD Boost on the storage node
- D. DD Boost license on the NetWorker server

**Answer:** A

NO.2 An EMC Avamar customer wants to start backing up their VMware environment. The customer's goal is to obtain the highest level of data deduplication support for file system and application backups. In addition, they do not want to have to train their administrators on a new backup method.

Which method of VMware backup will meet the customer's needs?

- A. Install an Avamar agent on each guest OS
- B. Install the Avamar agent on the ESX server console
- C. Use a snapshot mounted to a proxy server over the SAN
- D. Use VMware Consolidated Backup

**Answer:** A

NO.3 An EMC Avamar customer has a heavily utilized ESX system CPU utilization is a concern. Each guest system, all of which are Linux must be backed up with file granularity. The customer has both Avamar and NetWorker available and is looking to EMC for guidance

What is considered the most suitable approach to meet these requirements?

- A. Install the Avamar agent directly on each system
- B. Install the NetWorker agent directly on each guest system
- C. Use Avamar VCB to offload the ESX server
- D. Use NetWorker VCB to offload the ESX server

**Answer:** B

NO.4 Scenario

A customer is currently using third-party backup software for Oracle backups and writing backups to third-party physical tape libraries and a VTL. Backups sent to the VTL are then vaulted to tape and transported daily from the primary data center to the third-party facility.

They are experiencing high backup job failures with backup success rates of approximately 65%. In addition, their time to disaster recovery readiness for backups is greater than 24 hours. The retention period for database backups from disk-based backup is 4 weeks.

The customer is looking for a solution that will meet the following requirements:

Oracle DBA to manage backups through Oracle RMAN Backup their file system data using EMC backup software Perform monthly full backups directly to physical tapes for offsite storage Reduce

the backup window to the possible maximum Increase the time to disaster recovery readiness.  
Increase the retention period for database backups from disk-based backup to 6 weeks No additional  
WAN bandwidth requirements Low TCO solution Free up the Fiber Channel switch infrastructure  
Increase operational efficiency  
Refer to Scenario .

The customer is considering using an EMC Data Domain system. They would like to know which Data  
Domain protocol will meet their requirements.

What should be recommended?

- A. DD Boost
- B. NDMP
- C. AFTD
- D. VTL

**Answer: A**

NO.5 A customer has an EMC Avamar integrated Data Domain backup environment with replication.  
Avamar uses the Data Domain devices as a backup target. The Data Domain then replicates the  
backup data to another Data Domain device located offsite.

How should the customer restore data located on the offsite Data Domain device?

- A. Data can be restored the same way as restoring from a replicated Avamar server
- B. Data would be restored to the local Data Domain device first
- C. Data would be restored by accessing the offsite device directly
- D. Data can be restored directly from the replicated Avamar server

**Answer: A**

NO.6 What is a reason for implementing EMC Data Protection Advisor (DPA) in a DPA clustered  
architecture?

- A. Restrict customer access to specific DPA application nodes
- B. Use virtual machines for all DPA application servers
- C. Power up a standby DPA application server automatically
- D. Enable replication between DPA application servers

**Answer: A**

NO.7 A long-term EMC SRDF customer wants to make their backups tapeless. The customer has  
asked for your recommendation on the bandwidth required for replication of 10 TB of daily backup  
data that is currently going to tape nightly. Bandwidth is provided by two OC-3 circuits between the  
source and target data center locations.

Which information is needed to architect a solution for the customer?

- A. Available bandwidth, latency, and throughput objective
- B. Total bandwidth, trace route, and hops
- C. Circuit distance, line condition, and transmission rate
- D. Total bandwidth, latency, and compression rate

**Answer: A**

NO.8 A new EMC NetWorker customer has decided to use the traditional licensing model even though they have a large number of licenses that they will need to load. Which option is available to quickly install these licenses?

- A. Download an nsradmin file from Powerlink and import the file
- B. Download a text file of license keys and import through the NetWorker Management Console
- C. Check for licenses automatically with the License Conformance Reporter
- D. Copy and paste the licenses from the automatically generated e-mail

**Answer: A**

NO.9 A customer has purchased an EMC Disk Library (EDL) to reduce backup times to fit within their available backup window. What is an important design consideration to achieve this objective?

- A. Zone each backup server to a dedicated EDL FC port to eliminate bandwidth contention.
- B. Configure the maximum number of front-end FC ports and many concurrent backup streams.
- C. Configure the maximum number of virtual tape drives per library to improve performance.
- D. Configure the minimum number of virtual tapes to reduce VTL emulation overhead.

**Answer: B**

NO.10 A customer has asked you to design an EMC Avamar and Data Domain integrated solution for their environment. As you review the design for the Microsoft Exchange portion of the solution, the customer would like you to explain the backup process.

How would you respond?

- A. Avamar instructs the Exchange server to send both backup data and metadata to the Data Domain appliance
- B. Work order is received from the Avamar server backup data is sent to the Data Domain appliance, and then metadata is sent to the Avamar
- C. Exchange API, using a plug-in, sends all data directly to the Data Domain appliance
- D. Work order is sent from the Avamar Management Console to the Exchange server, and then data and metadata are sent to the Avamar system

**Answer: B**

NO.11 A customer has a multi-node EMC Avamar server with eight active storage nodes. They are currently at 85% GSAN capacity and receiving capacity warning messages. The customer would like to purchase four additional nodes for the system.

What is a best practice for adding capacity?

- A. Add two nodes at a time to the existing server
- B. Add one node at a time to the existing server
- C. Migrate capacity to a different server if available
- D. Acquire a new server with sufficient capacity

**Answer: A**

NO.12 You are designing a new backup solution for a customer where there are eight remote sites and one central site. At the present time, all sites have separate backup environments.

The customer wants all backups to be consolidated using one backup product. They require that all

backups be replicated many-to-one back to the central site with minimal impact on the WAN. They also want their desktop/laptop clients to perform their own backups and restores. Monitoring of all sites is required using Data Protection Advisor.

Which EMC solution will meet the requirements?

- A. Avamar
- B. NetWorker
- C. Replication Manager
- D. Data Domain

**Answer: A**

NO.13 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/rw/xx	'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**

NO.14 The EMC account team has been asked to design a new EMC NetWorker backup solution for Microsoft Exchange Server 2007. The customer's environment consists of Microsoft Exchange Server 2007 hosted on an EMC CLARiiON disk array with EMC VSS Provider and an EMC Disk Library.

Your design needs to include a server-less backup solution for the Microsoft Exchange Server 2007 environment by leveraging the Microsoft VSS framework. What is a recommended approach to meet the customer's requirements?

- A. NetWorker Module for Microsoft Applications
- B. NetWorker PowerSnap Module
- C. NetWorker Module for Microsoft Exchange Server
- D. NetWorker VSS Client for Microsoft Windows

**Answer: A**

NO.15 While designing an EMC Data Domain solution, you need to determine the required amount of storage capacity.

The following information was gathered from the customer:

- 2 TB full backup @ 5x compression
- 10% daily data change rate
- 4 incremental/week @ 10x compression
- 1x full per week @ 25x compression
- Retention period = 4 weeks with no data growth

What is the minimum amount of storage needed to support this solution?

- A. 850 GB
- B. 900 GB
- C. 1040 GB
- D. 1200 GB

**Answer:** C

NO.16 You are designing a Data Protection Advisor (DPA) solution to support a NAS environment. The environment consists of a Celerra, a NetApp file server, a backup infrastructure of 185 NetWorker clients, and 300 Symantec NetBackup clients.

What are the appropriate DPA licensing requirements?

- A. Backup option for 500 clients and one file server option for each NAS system
- B. Backup option for 185 NetWorker and 300 NetBackup clients, and 1 Celerra, and 1 NetApp client
- C. Backup option for 500 clients and a single file server option for the NAS systems
- D. Backup option for required client count, a Celerra file server, and a NetApp file server option

**Answer:** A