

## Exam Questions DEE-1421

Expert - Isilon Solutions

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**NEW QUESTION 1**

A company uses the Dell EMC Isilon cluster's A200 nodes for short-term archiving of digitized film. Historical and trending information shows that the cluster capacity will reach 90% full in 60 days. To avoid the need to purchase additional A200 nodes, the company requires a solution that archives data not accessed for 18 months to a more cost-effective platform. The long-term archive data must be online and accessible. Some performance loss is acceptable. Which IT strategy provides a long-term solution that meets the requirements?

- A. Use a CloudPools policy to move the target data to an ECS-powered cloud
- B. Use NDMP to backup to disk using compression and deduplication
- C. Use SyncIQ to replicate the archive to the H600 nodes on the secondary cluster
- D. Use dataduplication on archived data not accessed within 180 days

**Answer: B**

**NEW QUESTION 2**

A company is planning to add eight additional nodes to their existing 4-node Dell EMC Isilon cluster. If the administrator plans to add all eight nodes at the same time without causing any outage, what is the result of this action?

- A. OneFS will not proceed with the addition
- B. All nodes will be added without errors
- C. Quorum will be lost
- D. All nodes will be added with errors

**Answer: B**

**NEW QUESTION 3**

Which protocol to send isi diagnostic gather logs from a Dell EMC Isilon cluster to Dell EMC Support when the ESRP gateway is unable?

- A. SCP
- B. FTP
- C. HTTPS
- D. FTPS

**Answer: B**

**NEW QUESTION 4**

A Dell EMC Isilon cluster replicates critical production data and long-term archive data from the primary data center to a target cluster. The source cluster runs OneFS 8.1 and the target cluster runs OneFS 7.2. OneFS will not be upgraded on the target cluster.

When the archived data on the source cluster is replicated to the target cluster, the capacity consumption on the source cluster far exceeds what is expected. What is the reason for the increase in capacity consumption on the cluster?

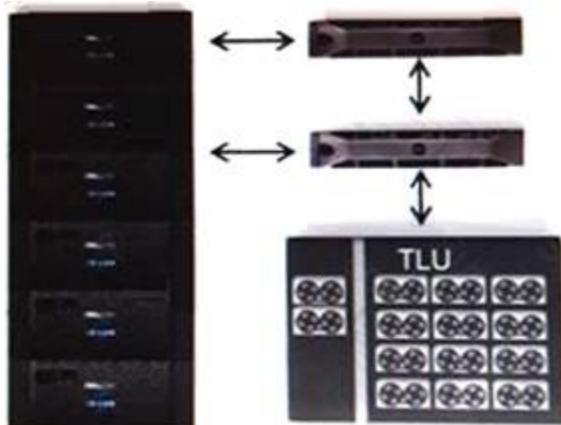
- A. SyncIQ can only replicate data that does not have stub files
- B. SyncIQ performs a local copy of the data before it is replicated
- C. Remote cluster rehydrates the data stored in the public cloud
- D. Deep copy of the cloud data is performed before SyncIQ replication occurs

**Answer: D**

**NEW QUESTION 5****SPECIAL INSTRUCTIONS**

The remaining Part 1 questions are associated with four case studies that describe various environments or settings. Each case study appears on its own display screen. Questions for each case study will appear on separate display screens.

When displaying a question, you can easily review the related case study by clicking on the "Review Case Study" icon shown below:



Case Study 5– Refer to the Exhibit.

Backing up data from a Dell EMC Isilon cluster exceeds the company's backup window. Because the company has a large amount of data with a continuous high growth rate, they want to change their backup strategy. The Gen 6 Isilon cluster consists of 24 nodes. Their current backup strategy is an NDMP three-way backup performing weekly full backups to tape and incremental backups each night. The strategy uses Dell EMC NetWorker. The DMA uses Include paths to specify what data to backup. All data on the cluster must remain accessible.

The company's IT team is now looking for a new data protection strategy. The company wants to:

- Minimize the backup window
- Increase the speed of data recovery
- Reduce the network traffic
- Reduce the overall growth of the backup datasets

The IT Team indicates that their currently backup hardware will be used in any solution. Which solution meets their requirements?

- A. Implement an incremental forever backup strategy
- B. Configure the DMA to use IPv6 for better performance
- C. Change the backup strategy to token-based backups
- D. Increase the backup tape block size to 512 KB

Answer: A

**Explanation:**

Explanation

**SPECILA INSTRUCTIONS:**

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**Exhibit**

### Case Study 4

A company is experiencing a noticeable decrease in performance when accessing data on their Dell EMC Isilon cluster. The cluster hosts Microsoft Windows home directories and general purpose file shares. In addition, a file pool policy moves data that has not been modified in six months to an archive tier. The administrator wants your assistance in understanding the reason for the slow data access. The number of users accessing the cluster has not changed.

The administrator has shared the following baseline metrics. The outputs were captured from a performance-acceptable time frame

**Trace route shows:**

- 3 hops between clients and the cluster
- Average latency is 3 ms

**iperf shows:**

- 940 Mb/s average bandwidth
- .005 ms average jitter

**netstat on the local network shows:**

- .05% average re-transmission rate

**Hostcache list:**

- 20 ms average roundtrip time across all clients

**Exhibit**

### Case Study 1

A company has several independent business units that operate globally. The company has consolidated its IT infrastructure services and operations. Common infrastructural services which include IPAM, DNS, NTP, DHCP, and SMTP have been consolidated. The company has complemented its infrastructure development by investing in Dell EMC Isilon clusters to host its user's home and group directories and for compliance archival purposes required by individual business units.

The IT operations are located in India and the United States with its primary data center facilities co-located between New York and Texas. The company has a total of 60 AD forests.

- 1 main domain
- 55 domains have one-way trust relationships with the main domain
- An additional 4 domains do not have any trust relationships with no future plans of establishing trust relationships with the other domains

Users of different AD domains use different FQDN to access their corresponding file services. Additionally, the company does not plan to consolidate the AD domains and each domain uses a different IP subnet. The users of the domains with no trust relationships have a compliance archival requirement. The company wants all data to be replicated between New York and Texas.

**Exhibit**

**Case Study 5 - Refer to the Exhibit**

Backing up data from a Dell EMC Isilon cluster exceeds the company's backup window. Because the company has a large amount of data with a continuous high growth rate, they want to change their backup strategy. The Gen 6 Isilon cluster consists of 24 nodes.

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**Exhibit**

**Case Study 3**

A financial services company has file sharing workflows and 2000 home directories which include 70% Microsoft Windows and 30% Linux. The Security team is also interested in credit card usage data analytics such as point of sale, geolocation, and authorization and transaction data. Home directories and file shares do not require D@RE or SEC compliance.

However, due to the sensitivity of the credit card data, the company requires D@RE for credit card information and must adhere to the U.S. SEC 17a-4(f) compliance standards. Additionally, they are interested in auditing user access and anti-virus features.

The compute and storage environment consists of the following:

- 200 TB of Fibre Channel drives on NetApp ONTAP 7
- Environment is expected to grow 200 TB over the next three years

**NEW QUESTION 6**

You are assisting a company in planning for a Dell EMC Isilon disaster recovery sites. One of the company's concerns is the time that is needed for the initial synchronization between the primary and disaster recovery sites. What will help address this concern?

- A. After creating the policies, use the "assess sync" functionality
- B. After creating the policies, start the job and observe how much time it takes
- C. Time cannot be estimated due to many factors such as the cluster workload
- D. Use a third-party tool to estimate the time based on the data and the bandwidth available

**Answer: B**

**NEW QUESTION 7**

An IT team is implementing a disaster recovery solution. A Dell EMC Isilon cluster will replace production data from an existing primary cluster to a planned secondary cluster. The primary cluster is licensed for SmartLock Enterprise whereas the secondary cluster is not. A Smartlock enterprise type directory on the primary cluster or planned for replication SynIQ is used to replicate the data. What is a key consideration when replicating the WORM domain?

- A. Secondary cluster must be licensed for Smartlock Enterprise
- B. Files on the primary cluster cannot be committed to a WORM state
- C. A fallback will cause a second copy of the data on the primary cluster
- D. Retention dates and commit status are lost on the target directory

**Answer: D**

**NEW QUESTION 8**

A company has a cluster with two subnets. The first subnet has 1GbE interfaces dedicated for management and the second subnet has 10GbE interfaces dedicated for handling all data access. When the cluster started serving the production environment, poor performance was observed while the data is accessed through the data subnet. While troubleshooting the network the administrator discovered that the return traffic is going through the management network. Which recommended solution will rescue this issue?

- A. Configure static routes for both subnets
- B. Enable source-based routing
- C. Enable destination based routing with static routes
- D. Change the gateway priorities

**Answer: D**

**NEW QUESTION 9**

What enables CloudPools to achieve a retail of data from the cloud?

- A. Creating a copy file for every file whose data is archived to the cloud
- B. Creating a HardLink file for every die whose data is archived to me cloud
- C. Creating a SmartLink file for every file whose data is archived to the cloud
- D. Creating a SoflLink file for every file whose data is archived to the cloud

**Answer: C**

**NEW QUESTION 10**

Which combined solution addresses the company requirement for D@RE and U>S SEC 17a-4(1)?

- A. SED and Smartlock Enterprise mode
- B. All Flash and SmaclLock Compliance mode
- C. SED and SmarlLock Compliancemode
- D. SmatlLock Enterprise mode and \$TIG

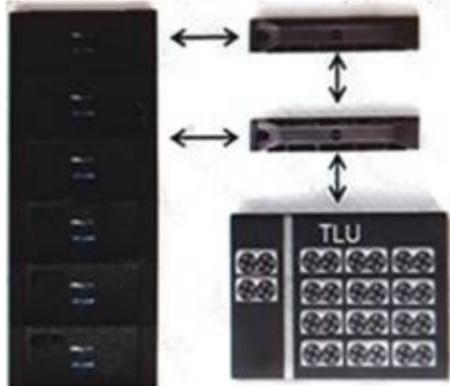
**Answer: B**

**NEW QUESTION 10**

**SPECIAL INSTRUCTIONS**

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Their current backup strategy is an NDMP three-way backup performing weekly full backups to tape and incremental backups each night. The strategy uses Dell EMC NetWorker. The DMA uses Include paths to specify what data to backup. All data on the cluster must remain accessible.

The company’s IT team is now looking for a method to increase the performance of their backups. After some investigation, you notice that the backup job targets two paths. This could be the cause of the lengthy backup times.

What advice should be provided to the team?

- A. Exclude the largest datasets from the backup job
- B. Add A100 Backup Accelerators and configure for two-way NDMP
- C. Create more parallel streams to utilize multi-stream NDMP backups.
- D. Change the backup strategy to token-based backups.

**Answer: C**

**NEW QUESTION 11**

Which Dell EMC tool allows the auditing of user access and anti-virus scanning on an Isilon cluster?

- A. Access zones
- B. InstghtQ
- C. EMCopy
- D. CEE

**Answer: D**

**NEW QUESTION 12**

A company has a medical application that generates a large number of media files. The file count is well over one billion and is stored on a Dell EMC Isilon 8-node N1410 Cluster. Currently, each node is connected to the network using two 10GbE connections. The Linux-based application does not require high bandwidth; however, it is latency sensitive. Additionally, the Linux hosts are connected to the cluster over NFSv3. The application generates approximately 10,000 files every 10 minutes for the past four years, the cluster has been growing at a rate of one additional node per year. The company is running out of free ports on their redundant network switches. They want to know what can be done to ensure continuous availability. They do not want to invest in upgrading the network infrastructure. In addition, the company needs to reduce the number of consumed interface ports on the switches.

Which recommendation should be provided?

- A. Leave the first four nodes of the cluster connected to both network switches and free up the remaining connections
- B. Leave the fast 10GbE interface from each node connected to the same network switch and free up the remaining connections
- C. Leave the first node of the cluster connected to both network switches and free up the remaining connections
- D. Leave the fast four nodes of the cluster connected to both network switches with LACP and free up the remaining connections

**Answer: D**

**NEW QUESTION 14**

A media company has a Microsoft Windows-based infrastructure and uses Adobe media editing tools to create advertisements for its customers. Users from the Media Production department store all types of media files on a Dell EMC Isilon cluster. In addition, users from the Support department are not allowed to store MP3 and AVI files to the NAS system. Both the Media Production and Support departments need to access other common data on the cluster. Due to workflow procedures, the media files are stored on the same path on the Isilon cluster. The company wants to know which Isilon features are available and can restrict the Support department users from writing certain media file types onto the Isilon cluster. Which recommendation should be provided?

- A. Create a single SMB share for both departments. Use the share security settings and Windows NTFS settings to restrict the types.
- B. Create an SMC snare for the Support department and restrict the Media Production department users from accessing the share. Create another SMB share for the Media Production department and apply file altering.
- C. Create a separate Access zone for each department. Use Sync 10 to replicate the data and exclude the media files.
- D. Create an SMC snare for the Media Production department and restrict the Support department users from accessing the share. Create another SMB share for the Support department and apply file filtering.

Answer: A

**NEW QUESTION 15**

SyncIQ policies are being configured between two Dell EMC Isilon clusters at a company's location. In addition, the company wants the ability to perform a failover at an Access zone level. Which actions should be performed to meet the requirements?

- A. Create one NS record delegation per SmartConnect zone. NS record should always point to an 'A\*' record containing the zone SSIP.
- B. Create one NS record delegation per cluster. NS record should always point directly to the cluster SSIP address.
- C. Create one NS record delegation per cluster. NS record should always point to an 'A' record containing the cluster SSIP address.
- D. Create one NS record delegation per SmartConnect zone. NS record should always point directly to the SmartConnect zone IP address.

Answer: D

**NEW QUESTION 20**

A company has an 8-node X410 installed as a single Dell EMC Isilon cluster. The company expressed concerns about cluster performance, particularly about NFS being slow. The output shown in the exhibit was presented to the Dell EMC technician. Based on this output, what is a reason for the cluster performance issue?

```
# isi statistics protocol --nodes-all --limit 10 --long --protocols-nfs3
Timestamp NumOps Ops InMax InMin In InAvg || TimeMax TimeMin TimeAvg TimeStdDev Node Proto Class Op
1526376786 937.0 161.8 27.3k 84.0 728.0k 4.5k || 125484.0 449.0 13289.4 29986.6 1 nfs3 write write
1526376786 126.0 24.3 120.0 108.0 2.6k 108.2 || 1540.0 68.0 132.8 146.2 3 nfs3 namespace_read getattr
1526376786 50.0 8.6 124.0 104.0 974.1 112.8 || 174.0 72.0 111.7 28.5 1 nfs3 namespace_read getattr
1526376786 44.0 8.5 124.0 112.0 951.1 112.3 || 485.0 140.0 187.5 58.2 3 nfs3 namespace_read access
1526376786 37.0 7.1 120.0 104.0 781.1 109.6 || 447.0 86.0 141.8 76.5 8 nfs3 namespace_read getattr
1526376786 28.0 5.6 124.0 108.0 657.1 117.6 || 1733.0 70.0 214.7 381.5 2 nfs3 namespace_read getattr
1526376786 20.0 4.0 120.0 108.0 467.4 115.6 || 401.0 55.0 124.0 76.7 6 nfs3 namespace_read getattr
1526376786 13.0 2.6 112.0 104.0 279.9 106.5 || 485.0 78.0 167.8 135.8 5 nfs3 namespace_read getattr
1526376786 12.0 2.1 128.0 108.0 259.8 125.3 || 291.0 147.0 200.3 39.2 1 nfs3 namespace_read access
1526376786 11.0 2.2 124.0 112.0 255.5 116.4 || 536.0 142.0 221.8 113.3 2 nfs3 namespace_read access
-----
Total:10
```

- A. SmartConnect is not properly balancing the connections
- B. Average NFSv3 write latency is too high
- C. Too many namespace\_read operations against the cluster
- D. Number of I/O for a single node is too high

Answer: A

**NEW QUESTION 23**

A company plans to deploy N+2d:1n protection on a 7 node Dell EMC Isilon cluster. How much capacity will be used to store a 1536 KB file?

- A. 1280 KB
- B. 1792 KB
- C. 1920 KB
- D. 2048 KB

Answer: D

**NEW QUESTION 26**

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