

# *Dell EMC*

*D-ECS-DS-23  
Dell ECS Design 2023 Exam*



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## **Product Version**

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# Latest Version: 6.0

## Question: 1

What are the two considerations for designing ECS replication groups in an archive solution?

(Select 2)

Response:

- A. Fast ingest on EXF900 may speed up the replication process and reduce RPO.
- B. WAN latency may create performance bottlenecks during remote reads.
- C. Global replication groups are mandatory in a two or more ECS VDC setup.
- D. Limit the number of replication groups to reduce indexing overhead.

**Answer: B,D**

## Question: 2

When following best practices, what must the solution architect consider when sizing an upgrade for an existing ECS cluster without adding additional nodes?

Response:

- A. Only add drives of the same capacity within the node.
- B. Replace all the drives with higher capacity drives.
- C. Add different capacity drives within the node.
- D. Disable data replication to free up storage space.

**Answer: A**

## Question: 3

How is XOR optimization implemented on an ECS geo-active replication group containing three sites?

Response:

- A. Primary copy of chunk A on VDC1  
Primary copy of chunk B on VDC2  
A replicated copy of both chunks on VDC3
- B. Primary copy of chunk A on VDC1  
Secondary copy of chunk A on VDC2  
A consolidated copy of both chunks on VDC3
- C. Primary copy of chunk A on VDC1  
Primary copy of chunk B on VDC2

A consolidated copy of both chunks on VDC3  
D. Primary copy of chunk A on VDC1  
XOR copy of chunk A on VDC2  
A backup copy of chunk A on VDC3

**Answer: C**

#### Question: 4

A service provider with a 64 node ECS in a single VDC requires logical separation of data for each tenant. All tenants would like to use 12+4 erasure coding scheme for data protection. What is the recommended way to configure ECS?  
Response:

- A. Create a single storage pool with one replication group per tenant.
- B. Create a single storage pool with one or more namespaces per tenant.
- C. Create a single storage pool per tenant with the same replication group.
- D. Create a single namespace with one bucket per tenant.

**Answer: B**

#### Question: 5

ECS enforces multiple policy rules to ensure compliance with SEC 17a-4(f) regulations. Which two policy rules are valid after enabling compliance?  
(Select 2)  
Response:

- A. A compliant bucket can be deleted while it still has objects under retention.
- B. Retained objects cannot be erased until their retention period expires.
- C. Retention periods for stored objects can be increased but not decreased.
- D. Both ECS Appliance and ECS software-only solutions supports policy-based compliance.

**Answer: B,C**

#### Question: 6

Which two statements regarding namespaces on ECS are true?  
(Select 2)  
Response:

- A. Multiple namespaces can share access to the same bucket.

- B. Namespaces provide logical isolation of data.
- C. Namespaces provide physical isolation of data.
- D. Multiple namespaces require unique bucket names.

**Answer: A,C**

### Question: 7

A corporation has a single-site ECS system and is contemplating implementing a three-site Geo Federated environment. They want to know what benefits Geo replication offers. Which two benefits can a technology architect promote?

(Select 2)

Response:

- A. Provides improved security against site failures by creating multiple copies of the data
- B. Replication group creation without VDC Federation
- C. Reduces indexing overhead by increasing the number of replication groups
- D. Storage efficiency by taking advantage of XOR compression

**Answer: A,D**

### Question: 8

Where is erasure coding applied in ECS?

Response:

- A. To the system index only
- B. To the metadata chunks only
- C. To chunks containing object data only
- D. To the data tables only

**Answer: C**

### Question: 9

An organization is troubleshooting the responsiveness of their ECS cluster when clients connect to their objects. What dashboard is recommended to monitor transactions per second?

Response:

- A. Process Health
- B. Node Rebalancing
- C. Data Access Performance

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D. Disk Bandwidth

**Answer: C**

**Question: 10**

What is the minimum number of VDCs that can be managed as a federation?

Response:

- A. 3
- B. 4
- C. 2
- D. 5

**Answer: C**

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