

# Exam D-ISM-FN-01 Topics & D-ISM-FN-01 Certificate Exam



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## EMC Dell Information Storage and Management Foundations v2 Exam Sample Questions (Q27-Q32):

### NEW QUESTION # 27

Question:

A company needs to ensure high availability for its applications and minimize downtime in case of a disk failure. The current storage configuration is a RAID 0 array with SSDs. Which RAID level is most cost effective and would provide the necessary data protection without significant performance degradation?

- **A. Migrate to a RAID 5 array with SSDs for parity-based protection**
- B. Upgrade to a RAID 6 array with SSDs for dual parity protection
- C. Implement a RAID 1 array with SSDs for disk mirroring
- D. Maintain the existing RAID 0 configuration with SSDs

**Answer: A**

Explanation:

RAID 5 provides a cost-effective balance between:

Data protection (single parity, can tolerate one disk failure).

Performance (especially read-heavy environments).

Cost (uses fewer drives than RAID 1 or 6 for the same capacity).

\* RAID 1 (B): Best for read-heavy workloads but doubles the storage needed (mirroring).

\* RAID 0 (C): No protection against disk failure.

\* RAID 6 (D): More protection (dual parity), but more write penalty and more disks needed.

Reference: Dell Information Storage and Management Foundations 2023 Study Guide, Section: RAID Levels.

### NEW QUESTION # 28

Question:

Which RAID level consists of two disk drives and every write is written to both disks?

- A. RAID 6
- **B. RAID 1**
- C. RAID 1+0
- D. RAID 5

**Answer: B**

Explanation:

RAID 1 is disk mirroring. It writes identical copies of data to two disks simultaneously, providing redundancy.

\* Minimum of 2 disks (no parity, no striping).

\* Excellent read performance, write performance equivalent to a single disk.

\* Provides fault tolerance because data is duplicated.

Reference: Dell Information Storage and Management Foundations 2023 Study Guide, Section: RAID Levels.

### NEW QUESTION # 29

Question:

A company is experiencing slow write performance on its RAID 6 array. What is the most likely cause of this performance bottleneck?

- **A. Write penalty associated with dual parity calculations**
- B. High read I/O load on the array
- C. Increased network latency between the server and the storage array
- D. Insufficient storage on the RAID controller

**Answer: A**

Explanation:

RAID 6 uses dual parity to provide fault tolerance, which requires additional calculations during write operations. This introduces a write penalty, as the system must compute and write two sets of parity data for each write operation, leading to slower write performance compared to other RAID levels.

\* Insufficient storage on the RAID controller: Would affect storage capacity, not write performance.

\* High read I/O load on the array: Impacts read performance, not write performance.

- \* Increased network latency: Affects data transfer times but not the internal write operations of the RAID array.
  - \* Write penalty associated with dual parity calculations: The most likely cause of slow write performance in RAID 6.
- Reference: Dell Information Storage and Management Foundations 2023 Study Guide, Section: RAID.

### NEW QUESTION # 30

Question:

A company is looking for a backup solution that can reduce its IT management overhead and offer scalability and flexibility. Which type of backup solution would meet these requirements?

- **A. Cloud-based backup**
- B. Agent-based backup
- C. Tape-based backup
- D. Image-based backup

**Answer: A**

Explanation:

Cloud-based backup solutions are managed by third-party providers and offer easy scalability, flexibility, and reduced IT management overhead. They allow businesses to focus on operations while the provider manages infrastructure, updates, and capacity.

\* Image-based backup: Captures entire system images but may still require local storage and management.

\* Agent-based backup: Deploys agents to servers, requiring management of the agents.

\* Tape-based backup: Involves hardware and manual processes for storage, increasing management burden.

Reference: Dell Information Storage and Management Foundations 2023 Study Guide, Section: Backup and Cloud Integration.

### NEW QUESTION # 31

Question:

A backup array was able to achieve a 30:1 reduction by finding multiple copies of the same data. Which method was used in this scenario?

- A. Data replication
- **B. Data deduplication**
- C. Data encryption
- D. Data compression

**Answer: B**

Explanation:

Data deduplication is a technique that eliminates redundant copies of data, storing only unique instances.

When multiple copies of the same data are found, deduplication replaces them with references to a single stored copy, significantly reducing storage requirements.

\* Data replication: Involves copying data to another location for redundancy, not reducing storage size.

\* Data encryption: Secures data but doesn't affect storage size.

\* Data compression: Reduces data size by encoding information more efficiently but doesn't eliminate duplicates.

Reference: Dell Information Storage and Management Foundations 2023 Study Guide, Section: Data Deduplication and Data Archiving Solutions Architecture.

### NEW QUESTION # 32

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