



E10-001^{Q&As}

Information Storage and Management Exam Version 2

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QUESTION 1

What is an advantage of reporting on storage arrays?

- A. Planning for capacity
- B. Monitoring the number of arrays
- C. Monitoring the number of disks in a RAID group
- D. Planning for storage groups

Correct Answer: A

Reporting

Reporting on a storage infrastructure involves keeping track and gathering information from various components/processes. This information is compiled to generate reports for trend analysis, capacity planning, chargeback, and performance.

Capacity planning reports contain current and historic information about the utilization of storage, file systems, database tablespace, ports, and so on. Configuration and asset management reports include details about device allocation, local or remote replicas, and fabric configuration.

This report also lists all the equipment, with details, such as their purchase date, lease status, and maintenance records. Chargeback reports contain information about the allocation or utilization of storage infrastructure components by

various departments or user groups. Performance reports provide details about the performance of various storage infrastructure components. EMC E10-001 Student Resource Guide. Module 15: Managing the Storage Infrastructure

QUESTION 2

Which type of LUN is suitable for applications that require predictable performance?

- A. Traditional
- B. Thin
- C. Journal
- D. Bitmap

Correct Answer: A

QUESTION 3

When developing a disaster recovery plan, what is the result of choosing a particular recovery time objective for a system?

- A. Determines the type and location of the backup media

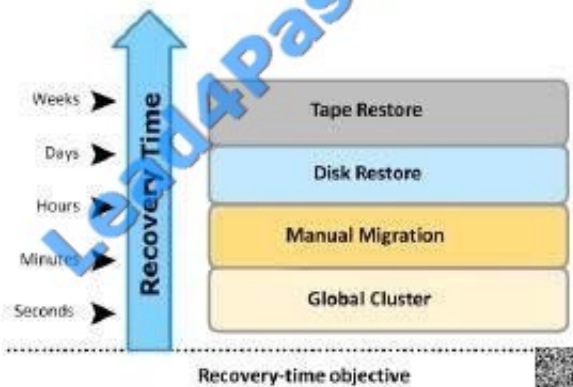


- B. Determines how often to take a backup of the system
- C. Determines how long to retain backup copies
- D. Determines how many transaction logs should be backed up

Correct Answer: A

Recovery-Time Objective (RTO)

- Time within which systems and applications must be recovered after an outage
- Amount of downtime that a business can endure and survive



Recovery-Time Objective (RTO): The time within which systems and applications must be recovered after an outage. It defines the amount of downtime that a business can endure and survive. Some examples of RTOs and the recovery

strategies to ensure data availability are listed below:

RTO of 72 hours: Restore from tapes available at a cold site. RTO of 12 hours: Restore from tapes available at a hot site. RTO of few hours: Use disk-based backup technology, which gives faster restore than a tape backup.

RTO of a few seconds: Cluster production servers with bidirectional mirroring, enabling the applications to run at both sites simultaneously.

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QUESTION 4

What is a challenge to consumers in adopting a public cloud?

- A. High CAPEX
- B. Delayed resource scaling



C. Management overhead

D. Vendor lock-in

Correct Answer: D

Cloud Challenges - Consumers\ Perspective Business critical data requires protection and continuous monitoring of its access. If the data moves to a cloud model other than an on-premise private cloud, consumers could lose absolute control of their sensitive data. Although most of the cloud service providers offer enhanced data security, consumers might not be willing to transfer control of their businesscritical data to the cloud.

Cloud service providers might use multiple data centers located in different countries to provide cloud services. They might replicate or move data across these data centers to ensure high availability and load distribution. Consumers may or may not know in which country their data is stored. Some cloud service providers allow consumers to select the location for storing their data. Data privacy concerns and regulatory compliance requirements, such as the EU Data Protection Directive and the U.S. Safe Harbor program, create challenges for the consumers in adopting cloud computing.

Cloud services can be accessed from anywhere via a network. However, network latency increases when the cloud infrastructure is not close to the access point. A high network latency can either increase the application response time or cause the application to timeout. This can be addressed by implementing stringent Service Level Agreements (SLAs) with the cloud service providers.

Another challenge is cloud platform services may not support consumer\'s desired applications. For example, service provider might not be able to support highly specialized or proprietary environments, such as compatible OSs and preferred programming languages, required to develop and run the consumer\'s application. Also a mismatch between hypervisors could impact migration of virtual machines into or between clouds. Another challenge is vendor lock-in: the difficulty for consumers to change their cloud service provider. A lack of interoperability between the APIs of different cloud service providers could also create complexity and high migration costs when moving from one service provider to another. EMC E10-001 Student Resource Guide. Module 13: Cloud Computing

QUESTION 5

In an FC SAN environment, what is a benefit of zoning?

A. Restricts RSCN traffic

B. Isolates fabric services

C. Enables online volume expansion

D. Provides non-disruptive data migration

Correct Answer: A

Zoning

Zoning is an FC switch function that enables node ports within the fabric to be logically segmented into groups and communicate with each other within the group.

Whenever a change takes place in the name server database, the fabric controller sends a Registered State Change Notification (RSCN) to all the nodes impacted by the change. If zoning is not configured, the fabric controller sends an

RSCN to all the nodes in the fabric. Involving the nodes that are not impacted by the change results in increased fabric-management traffic. For a large fabric, the amount of FC traffic generated due to this process can be significant and



might

impact the host-to-storage data traffic. Zoning helps to limit the number of RSCNs in a fabric. In the presence of zoning, a fabric sends the RSCN to only those nodes in a zone where the change has occurred.

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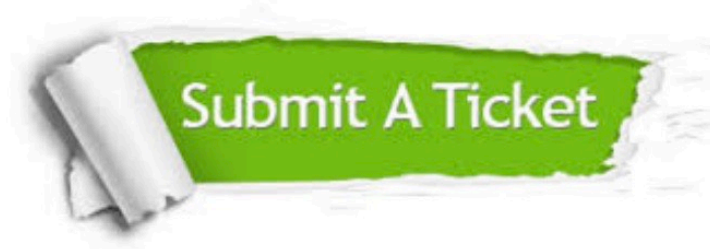
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