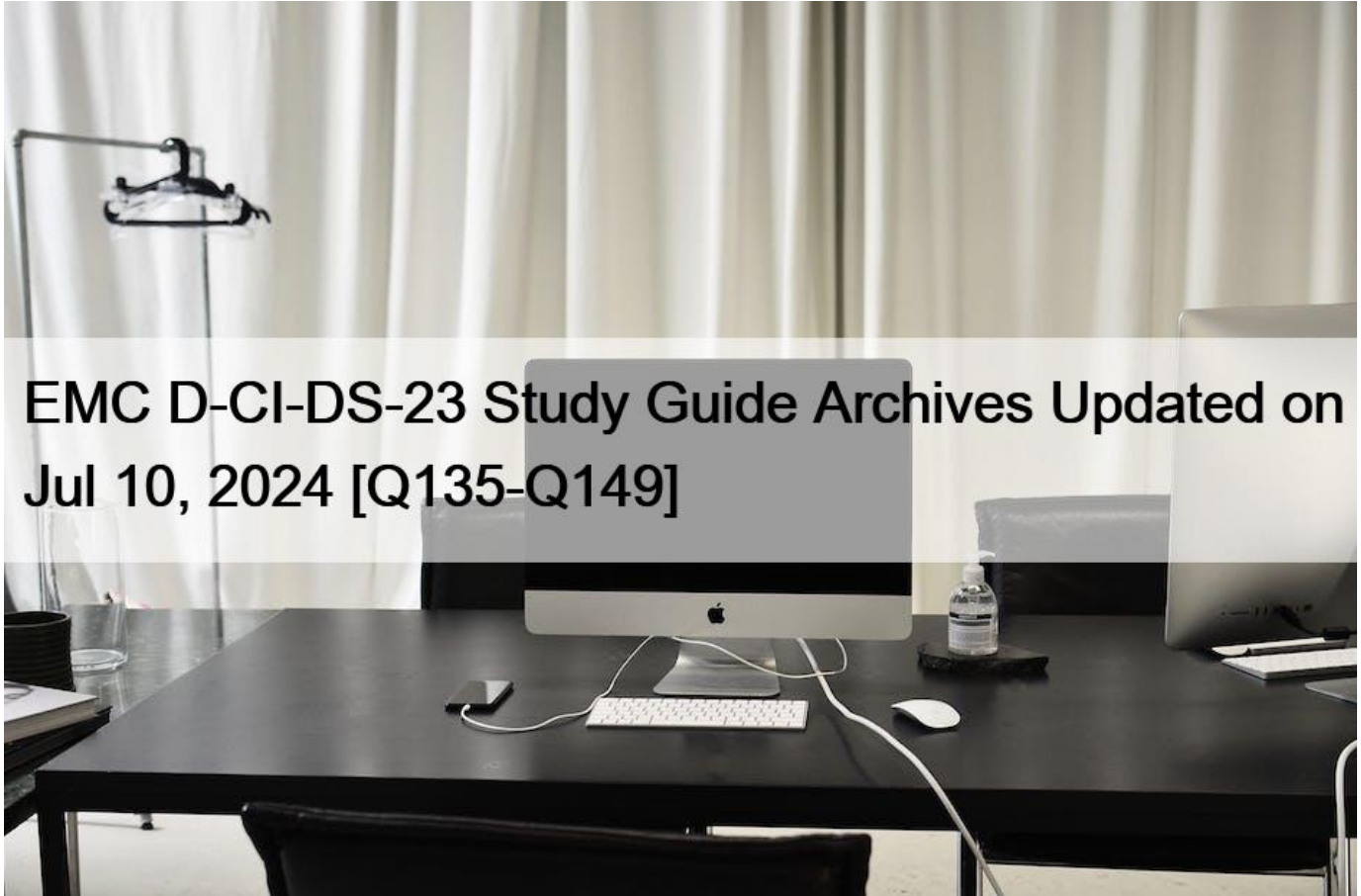


## EMC D-CI-DS-23 Study Guide Archives Updated on Jul 10, 2024 [Q135-Q149]



**EMC D-CI-DS-23 Study Guide Archives Updated on Jul 10, 2024 Download D-CI-DS-23 Mock Test Study Material Q135.**  
Match each platform requirement to its respective characteristic.

1. Provides a smooth path to production
2. Provides processes for deployment and management
3. Has minimal or no impact on application code
4. Ensures optimal end-user service and utilization

A) Availability

B) Scalability

C) Microservice Support

D) Security

\* 1 &#8211; B

2 &#8211; D

3 &#8211; A

4 &#8211; C

\* 1 &#8211; D

2 &#8211; B

3 &#8211; A

4 &#8211; C

\* 1 &#8211; C

2 &#8211; A

3 &#8211; B

4 &#8211; D

\* 1 &#8211; A

2 &#8211; D

3 &#8211; C

4 &#8211; B

**Q136.** A company plans to invest \$315,000 to cover hardware, software, and deployment expenses. They expect to save \$35,000 per month. They are using a decommissioning cost of \$35,000 for the old equipment. After how many months will the company reach the break even point?

\* 7

\* 8

\* 9

\* 10

**Q137.** A cloud design contains multiple hosts that are running a hypervisor. Each host has only two physical 10Gb network adapters. Each host will support numerous virtual machines that will be connected to any of the 40 VLANs that are defined in the physical infrastructure.

These virtual machines will communicate with other virtual machines on the same VLAN.

How must the access layer switch ports be configured for each host?

\* Using MLAG

\* With jumbo frames

\* As access ports

\* As trunk ports

**Q138.** Which storage category and feature is represented by EMC XtremIO?

\* Central storage and full redundancy

- \* Distributed storage and Flash
- \* Central storage and active/passive
- \* Distributed storage and full redundancy

**Q139.** What is the primary purpose of data collection and analysis in cloud design?

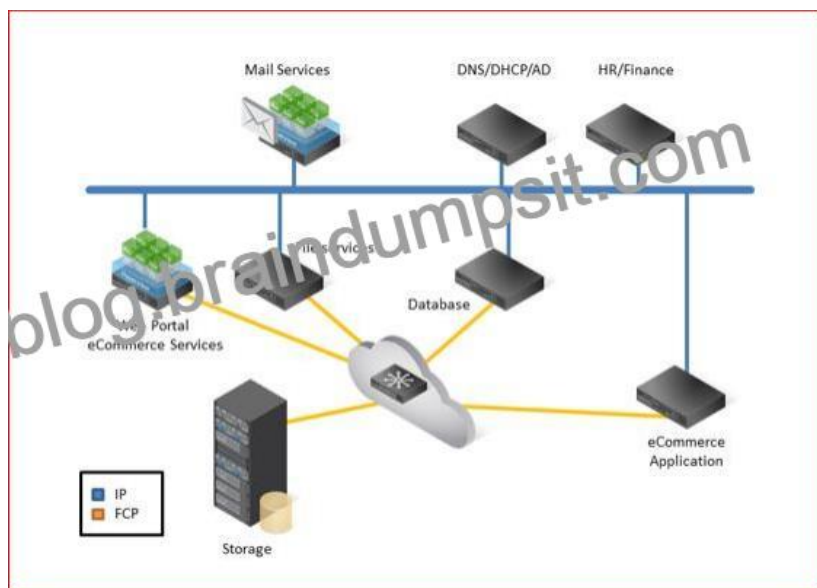
- \* To increase operational costs
- \* To reduce performance monitoring
- \* To make informed decisions
- \* To eliminate data storage

**Q140.** An organization wants to deploy virtual machines from a service catalog. These virtual machines have software and libraries installed that are used to develop applications. Each virtual machine will be configured with the same IP address and receive OS patches from the Internet.

What will be included in the design to support these capabilities?

- \* VSANs and a physical firewall
- \* VLANs and network QoS
- \* VXLANs and OS encryption
- \* VLANs and virtual firewall appliances

**Q141.** Refer to the exhibit.



Your company is currently using a traditional SAN storage network. The server infrastructure is partially virtualized. There is a public cloud in place that is used to test development and application migration to cloud.

Business requirements:

&#8211; Consolidate the network, storage, and compute resources

&#8211; Simplify network management and storage provisioning

• Maintain application performance

• A disaster recovery plan to meet RTO / RPO targets

Other considerations:

• All data must be secured at rest and in-flight

• Include an app development platform

Refer to Case 6.

You are designing a private cloud to use VLANs to support compute to compute connectivity. The cloud services and security requirements will result in 5,120 separate VLANs being created.

What is a concern related to VLANs when reviewing this requirement?

- \* VLANs limit the number of NICs that can participate in the network to 2,048
- \* Configuration times out when attempting changes to more than 1,024 VLANs
- \* Each VLAN requires separate infrastructure and management traffic
- \* VLANs can only support up to 4,094 virtual networks

**Q142.** A cloud architect is evaluating an organization's need to support thousands of virtual machine instances and some form of encryption.

Which encryption type should be selected and why?

- \* Storage array encryption to provide centralized management
- \* Full file systems encryption to simplify key management
- \* Network-based encryption to increase security at the cost of server overhead
- \* Self-encrypting storage devices to increase security at the cost of increased overhead

**Q143.** Which design consideration applies to file storage?

- \* Access is controlled through directory and file permissions.
- \* Adding more nodes to the storage pool increases performance.
- \* It is best suited for high performance and low latency applications.
- \* Scaling up uses software to create multiple copies of data.

**Q144.** During a stakeholder meeting for the requirements gathering portion of a project, some unclear details arise about the commodity hardware on which the cloud will be built. Once these technical details are clarified, it could cause the project scope to change.

How should a cloud architect approach this situation?

- \* Express the importance of clarifying these technical details during the meeting Ask for an action plan to clarify the technical details Review with stakeholders the effects the clarified technical details have on the project scope
- \* Expect stakeholders and project managers to clarify the technical details with their technical teams Review the effect of the technical detail on the project scope when asked
- \* Express the importance of clarifying details on the commodity hardware during the meeting Ask the team responsible for commodity hardware to clarify the technical details Ask the team responsible for commodity hardware to clarify the technical details with the project stakeholders
- \* Request that the technical team representatives, responsible for commodity hardware, join the stakeholder meetings from now on Request that the technical team determine the effects on the project scope

**Q145.** Which component of a cloud reference architecture is responsible for managing resource provisioning, scaling, and load balancing?

- \* Compute
- \* Storage
- \* Networking
- \* Orchestration and automation

**Q146.** An organization has internal applications that require block, file, and object storage. They anticipate the need for multi-PB storage within the next 18 months. In addition, they would prefer to use commodity hardware as well as open source technologies.

Which solution should be recommended?

- \* Cinder
- \* Hadoop
- \* Swift
- \* Ceph

**Q147.** Which cloud service is responsible for automatically deploying and destroying cloud resources in an organized and predictable way?

- \* Service catalog
- \* Orchestration
- \* Portal
- \* Service templates

**Q148.** After developing prototype applications in the public cloud, developers determined that they want to programmatically provision virtual network segments and services.

Which cloud management platform component will support this requirement?

- \* Cloud Gateway
- \* Hypervisor Element Manager
- \* Software-Defined Network Controller
- \* Configuration Management Server

**Q149.** During the analysis process of collected data, what are key steps in identifying areas for improvement?

(Select all that apply)

- \* Generating random conclusions
- \* Identifying trends and patterns
- \* Assessing business value
- \* Making assumptions without evidence