



# E20-020<sup>Q&As</sup>

Cloud Infrastructure Specialist Exam for Cloud Architects

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### QUESTION 1

What are general design considerations for inter-cloud links?

- A. Internet connection, network service provider adjacent to the cloud provider, and application behavior
- B. Router and load balancer session synchronization, Internet connection, and network service provider adjacent to the cloud provider
- C. Application behavior, router and load balancer session synchronization, and Internet connection
- D. Network service provider adjacent to the cloud provider, application behavior, and router and load balancer session synchronization

Correct Answer: B

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### QUESTION 2

An organization is implementing a backup solution for their private cloud. They are concerned that having the backup data stored onsite will expose them to lose in the event of a site-wide disaster. They are considering replicating the backup storage to an external site.

What are the design considerations involved with this replication solution?

- A. Ensuring proper hypervisor support and the availability of a federated single sign-on solution
- B. Ensuring network traffic encryption is considered and ensuring proper hypervisor support
- C. Ensuring sufficient network bandwidth is available and network traffic encryption is considered
- D. Ensuring proper hypervisor support and sufficient network bandwidth is available

Correct Answer: B

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### QUESTION 3

An organization wants to provide its developers with the ability to deploy virtual machines. 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 will be able to download application code from a central server. Which will be included in the design to support these requirements?

- A. VSANs and virtual firewall appliances
- B. VLANs and virtual firewall appliances
- C. VLANs and virtual IDS appliances
- D. VXLANs and an OS firewall

Correct Answer: D

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#### QUESTION 4

What is an advantage of using a brownfield infrastructure?

- A. Avoids upgrades to existing infrastructures
- B. Promotes staff familiarity with technology
- C. Enables migration to new technologies
- D. Avoids older and less efficient processes

Correct Answer: B

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#### QUESTION 5

An architect is designing the compute resource pools for a cloud. As part of the deliverables, the architect has included the standard specifications for the physical servers to be used. The organization has provided estimates for future growth but has concerns about whether these estimates are accurate. What should be included in the design to address these concerns?

- A. A monitoring application and procedures for pool expansion
- B. A chargeback application and orchestration workflows to auto-scale pools
- C. A metering application and orchestration workflows to auto-scale pools
- D. A configuration management application and procedures for pool expansion

Correct Answer: A

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#### QUESTION 6

What needs to be considered when designing a distributed storage solution?

- A. Multiple management tools
- B. Fault domain detection and isolation to ensure data availability
- C. RAID configuration to ensure a drive failure is avoided
- D. Automated storage tiering to enable efficient use of drive

Correct Answer: B

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#### QUESTION 7

Which categories of network traffic should be isolated from inter-host communication and each other?



- A. Logging and messaging
- B. Cloud services and administration
- C. Administration and storage
- D. Messaging and storage

Correct Answer: B

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#### QUESTION 8

When implementing QoS across a cloud network, how is storage traffic usually prioritized?

- A. Most important
- B. More important than tenant traffic but less important than management traffic
- C. More important than management traffic but less important than tenant traffic
- D. Least important

Correct Answer: C

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#### QUESTION 9

Which cloud services are typically responsible for automatically scaling applications?

- A. Orchestration and monitoring
- B. Metering and service catalog
- C. Monitoring and metering
- D. Service catalog and orchestration

Correct Answer: A

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#### QUESTION 10

A cloud architect is expected to present a final cloud infrastructure design to an organization. The architect will meet with an organization's executives and discuss the physical design. Why might this to be the wrong time to present this design?

- A. Physical designs are too high level for executives
- B. Physical designs are too general for executives
- C. Physical designs are too detailed for executives
- D. Physical designs are too theoretical for executives



Correct Answer: C

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#### QUESTION 11

An organization wants to deploy a block storage in the cloud using a storage array that is accessible through the iSCSI protocol. The hosts support iSCSI.

Why would network segmentation be included in the design to support this requirement?

- A. Secure all traffic between the storage array and the hosts
- B. Enable CHAP between the array and hosts
- C. iSCSI traffic is not supported on networks with other types of traffic
- D. Enable LUN masking capabilities of the array

Correct Answer: D

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#### QUESTION 12

If the metering tool supports multi-tenancy and integrates with the cloud portal, what should be considered?

- A. Only permit local user access for security reasons
- B. Metering tool should not integrate with tenant authentication
- C. Metering server access should be allowed for all tenants
- D. Role-based access for security reasons

Correct Answer: D

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#### QUESTION 13

An organization plans to deploy many cloud-native applications that will generate a considerable amount of east-west traffic. The cloud-native applications will be deployed on hosts running hypervisors. Why would distributed routers be considered in this design?

- A. Enable network segment
- B. Improve network performance between hosts
- C. Minimize Internet traffic
- D. Protect against a physical router failure

Correct Answer: B

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#### QUESTION 14

An organization plans to deploy a spine/leaf network topology to support a cloud design. Leaf switches will use layer-3 protocols to communicate with the spine switches. Hosts will each connect to two leaf switches using layer-2 protocols.

Which technology must be enabled between the host and leaf switches to provide the maximum throughput for a single data stream?

- A. Generic Network Virtualization Encapsulation
- B. Spanning Tree Protocol
- C. Equal-Cost Multi-Path Routing
- D. Multi-Chassis Aggregation

Correct Answer: A

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#### QUESTION 15

You are creating a cloud infrastructure design for an organization. You learn that, for compliance reasons, the organization needs to maintain a separate set of infrastructures for certain deployed services. Which part of the design will be impacted by this requirement?

- A. Number of service catalogs
- B. Number of compute pools
- C. Service catalog sizing
- D. Over-commitment ratio

Correct Answer: B

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