



**Vendor:** EMC

**Exam Code:** E20-020

**Exam Name:** Cloud Infrastructure Specialist Exam for Cloud Architects

**Version:** DEMO

### QUESTION 1

A company wants to build an IaaS cloud to host cloud-native applications. On which areas should a cloud architect focus when gathering requirements for this cloud design?

- A. Automation, multi-tenancy, and hardware availability
- B. Automation, hardware availability, and policy compliance
- C. Hardware availability, policy compliance, and multi-tenancy
- D. Policy compliance, automation, and multi-tenancy

**Answer: C**

#### Explanation:

\*Multi-tenancy

Infrastructure as a Service is very similar to what we've known as hosting or collocation services, just painted with bright cloudy colors. Multi-tenant services are any services that you offer to multiple customers, or "tenants." In most cases, IaaS and multi-tenant services mean the same thing, although you could also implement storage- or database-related multi-tenant service.

\*Hardware

In the case of IaaS the computing resource provided is specifically that of virtualised hardware, in other words, computing infrastructure. Note: Infrastructure as a Service (IaaS) is a form of cloud computing that provides virtualized computing resources over the Internet.

<http://www.interoute.com/what-iaas> <http://searchtelecom.techtarget.com/answer/How-do-Infrastructure-as-a-Service-and-multi-tenant-servicesdiffer>

### QUESTION 2

An organization is developing a cloud-native social-media website. The website will be written using elastic principles. When the website scales, it can add additional web, application and database instances to meet dynamic workload demand.

Which additional resources will be consumed by replication as the database layer expands.

- A. Public IP addresses, CPU, and memory
- B. CPU, memory, and network traffic
- C. Network traffic, public IP addresses, and CPU
- D. Memory, network traffic, and public IP addresses

**Answer: B**

### QUESTION 3

A cloud design contains multiple hosts that are running a hypervisor. Each host has only two physical 10 Gb network adapters that are aggregated for bandwidth and failover. The physical switch ports for each host are configured as access ports. Each host will support numerous virtual machines and network segments. These virtual machines will communicate with other virtual machines on the same network segments. Why would overlay networks be required for this design?

- A. Support for more than two virtual switches
- B. Support for more than one virtual segment
- C. Support for more than two virtual machines
- D. Support for more than one distributed virtual switch

**Answer: B**

#### Explanation:

An overlay network is a computer network that is built on top of another network. Nodes in the overlay network can be thought of as being connected by virtual or logical links, each of which corresponds to a path, perhaps through many physical links, in the underlying network. Virtual overlay networks use tunneling protocols to extend isolated network segments between servers for multi-tenant data center networks.

<http://searchsdn.techtarget.com/tip/Virtual-overlay-networks-Tunneling-protocols-enable-multi-tenancy>

#### QUESTION 4

An organization wants to deploy a service catalog in a private cloud. What requirements are met by using a service catalog?

- A. Ability for administrators to manage multi-tenancy
- B. Ability for users to measure service performance
- C. Ability for users to aggregate service logs
- D. Ability for administrators to attach storage pools

**Answer: B**

#### Explanation:

Benefits of implementing and maintaining a service catalog include allowing an enterprise to track and manage metrics that represent the utilization of services and service-related traits, such as those associated with service supply and demand.

[https://en.wikipedia.org/wiki/Service\\_catalog](https://en.wikipedia.org/wiki/Service_catalog)

#### QUESTION 5

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

**Answer: C**

#### QUESTION 6

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

**Answer: A**

#### QUESTION 7

An organization wants to deploy cloud applications using block storage.

The architect has included a hyperscale storage solution in the cloud design.

Which requirements led to including this solution in the design?

- A. Organization wants to purchase a storage array Organization will use a full mesh topology to combine storage and application processing
- B. Organization wants to purchase a storage array Organization will use a spine/leaf topology to combine storage and application processing
- C. Organization wants to purchase a storage array Organization wants to keep storage processing separate from the application processing
- D. Organization does not want to purchase a storage array Organization wants to use a full mesh topology to combine storage and application processing

**Answer: B**

**Explanation:**

When customers want converged/hyper-converged infrastructure appliances (or rack scale systems) - what customers ask for is this:

They want a management and orchestration stack that spans the domains of compute/storage/virtualization (in appliances), and this extends to the top-of-rack network and spine/leaf network (in rack-scale systems that must scale to and beyond rack boundaries operationally).

Note: Hyperscale storage is the storage of vast quantities of information in media capable of increasing in size rapidly, efficiently, and indefinitely. In a data center, hyperscale storage capacity commonly runs into the petabytes.

[http://virtualgeek.typepad.com/virtual\\_geek/page/4/](http://virtualgeek.typepad.com/virtual_geek/page/4/)

#### QUESTION 8

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

**Answer: D**

**Explanation:**

The cost of collecting the metrics, and the balance between the value they provide and the impact on application operation. If metering code cannot be incorporated into existing components or roles, and you need to increase the number of instances of components or roles just to carry out metering, you might increase costs beyond the savings or income available from metering.

<https://msdn.microsoft.com/en-us/library/dn589796.aspx>

#### QUESTION 9

In a cloud design, an architect has defined a separate trust zone for host management. The hosts will be running open source hypervisors.

What should be included in the design deliverables to support this separate trust zone?

- A. Isolated management network and a common super-user account
- B. Separate PKI and encrypted CMI portal access
- C. Separate authentication source and a preferred zone set
- D. Isolated management network and a separate authentication source

**Answer: D**

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