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Module 3 Graded Quiz

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1.Question 1

Each Cloud Region can have multiple Zones (also known as Availability Zones). What are Zones?

0 / 1 point



Unique physical locations with one or more data centers



Standardized containers of computing resources



Single shared point of failure



Geographic area or region where cloud provider's infrastructure is clustered

Incorrect

This is a challenge that is resolved by the distribution of a cloud provider's infrastructure into regions, zones, and data centers.

2.Question 2

Is it possible to run completely different operating systems on Virtual Machines (VMs) that are on a single host? If yes, what makes this possible?

1 / 1 point



No, it is not possible—A single host can only work as one single virtual environment, and can, therefore, have only one environment.



Yes, Containerization makes it possible—to have VMs that are unique physical entities, so you can have completely different Operating Systems on them.



No, it is not possible—VMs are software-based versions of a single host. They cannot have different environments from one another.



Yes, Virtualization makes it possible— to have VMs, running different operating systems, on a single host.

Correct

Each VM works like an independent physical entity with its own Operating System, runtime environments and applications.

3.Question 3

Which of the following are examples of single-tenant compute environments in the Cloud? *Select two.*

1 / 1 point



Reserved virtual server



Dedicated host

Correct

Dedicated hosts offer single-tenant isolation, which means only your VMs run on a given host.



Bare Metal servers

Correct

Bare Metal servers are single-tenant physical hosts that offer a highly customizable environment for intensive workloads.



Transient virtual servers

4.Question 4

Which of these scenarios is ideal for the use of bare metal servers, as opposed to virtual servers? *Select two.*

1 / 1 point

☐

Workloads that require limited throughput and performance

☐

Huge performance and strict security and compliance requirements

Correct

Bare metal servers are intended for high performance use in highly secure and isolated environments. Clients have full access and control of bare metal servers because they are dedicated for their use.

☐

CPU and I/O intensive workloads

Correct

Since bare metal servers are dedicated and fully customizable, they can do what a customer wants in the most demanding environments.

☐

Low cost to use

5.Question 5

What are some key differences between Containers and Virtual Machines? *Select two.*

0 / 1 point

☐

Even though each container uses the same OS as the host OS, it still needs to have its own copy of the OS, while a virtual machine leverages the resources of the host OS

☐

Containers are executable units of software while each virtual machine is a distinct physical entity

This should not be selected

A virtual machine is a software-based computer that runs like a physical computer.

☐

Containers can use the same OS as the host, while a virtual machine needs its own copy of the OS, which can also be different from the host OS

Correct

Containers leverage the resources of the host OS, while VMs are set up to work as independent machines and can run an OS that is different from the host OS.



Containers are more lightweight as compared to virtual machines

6.Question 6

There are four types of cloud storage available. Which storage type is ephemeral or non-persistent?

1 / 1 point



File storage



Direct Attached storage



Object storage



Block storage

Correct

Direct Attached storage, also known as "local storage", is ephemeral as it is no longer accessible once the VM its attached to is de-provisioned.

7.Question 7

What makes File storage an ideal solution for scenarios where shared storage is needed?

1 / 1 point



File storage can be mounted on multiple compute nodes at the same time



Mounted from remote storage appliances



File Storage is mounted to compute nodes via an ethernet network



Its consistently high speed

Correct

The ability for File Storage to be mounted to multiple compute nodes at a time make it an ideal solution for shared storage requirements.

8.Question 8

Which of these scenarios are best suited for Block Storage? *Select two.*

1 / 1 point



Workloads that need low-latency storage

Correct

Block storage is accessed via a dedicated network of fibres through which signals move at high speed, consistently. This makes block storage suitable for low latency workloads.



Workloads that need disk sharing between compute nodes



Applications that need consistent fast access to disk, such as databases

Correct

Fibre optic networks move traffic at consistently high speeds, making it ideal for applications that need consistent and fast access.



Low cost is a consideration

9.Question 9

Which of these are features of Object Storage? *Select two.*

1 / 1 point



Storage is attached to compute nodes using a fibre network



You can directly use Object Storage without attaching it to a compute node

Correct

You don't need an underlying compute node to connect to object storage, rather you can access it from anywhere using an API.



Object storage is effectively infinite

Correct

With file and block storage, you specify the size of the storage and pay a fee based on the size you provisioned. With Object Storage, you consume as much storage as you need and pay-as-you-go.



Object Storage can be mounted on multiple compute nodes via an ethernet network

10.Question 10

What is the main benefit of a Content Delivery Network (CDN)?

1 / 1 point



Speed, it makes your website faster by serving files from a location closer to the user.



Enhanced control over network traffic by routing traffic to specified resources



Distribute tasks, workloads, and network traffic



Network topology

Correct

CDNs reduce the amount of distance between the user and the content, or the server providing the content. CDN end-points are placed close to every location where users exist to reduce the time it takes for each user to access the website.