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## Module 3 Graded Quiz: Components of Cloud Computing

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Graded Quiz due Dec 7, 2023 00:48 IST Completed

## Question 1

1.0/1.0 point (graded)

Each Cloud Region can have multiple Availability Zones. What are Zones?

- ☐ Single shared point of failure
- ☐ Geographic area or region where the cloud provider's infrastructure is clustered
- ☒ Unique physical locations with one or more data centers
- ☐ Standardized containers of computing resources



### Answer

Correct:

Zones, or Availability Zones, are distinct locations with one or more data centers with power, cooling, and networking resources.

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## Question 2

1.0/1.0 point (graded)

Which of the following is a benefit of virtualization?

- ☐ Is secure
- ☐ Increases your downtime
- ☐ Runs a single operating system
- ☒ Cost savings



### Answer

Correct:

You can run multiple virtual environments from one piece of infrastructure, which means that you can drastically reduce your physical infrastructure footprint.

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## Question 3

1.0/1.0 point (graded)

Which of the following types of Virtual Machine (VM) guarantees resources for future deployments?

- ☐ Shared or Public Cloud VMs
- ☒ Reserved virtual servers
- ☐ Dedicated hosts
- ☐ Transient or Spot VMs



**Answer**

Correct: Users can reserve specific virtual server instances for guaranteed capacity.

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## Question 4

1.0/1.0 point (graded)

Which of the following is a feature of bare metal servers?

☐ Rapidly provisioned☐ Low cost to use☒ High performance and secure☐ Multiple tenants**Answer**

Correct:

Bare metal servers are dedicated and intended for long-term, high-performance use in highly secure and isolated environments.

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## Question 5

1.0/1.0 point (graded)

Subnets are the main area where security is implemented in the cloud. Which of the following is used to provide security at the virtual instance level in subnets?

☐ Load Balancers☐ Public Gateways☐ Virtual Private Cloud or VPC☒ Security Groups or SGs**Answer**

Correct: SGs provide instance-level security.

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## Question 6

1.0/1.0 point (graded)

Which of the following is a benefit of isolation of applications in containers?

☐ Open-sourced runtime engine☐ Repackaged into containers or containerized microservices☒ Preventing malicious code in one container from impacting other containers

☐ Abstraction from the host operating system

**Answer**

Correct:

The isolation of applications in containers reduces the chance that malicious code in one container will impact other containers or invade the host system.

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## Question 7

1.0/1.0 point (graded)

Which of the following storage types are ephemeral or non-persistent?

☐ Block Storage

☐ Object Storage

☐ File Storage

☒ Direct Attached Storage

**Answer**

Correct:

Direct Attached storage, also known as “local storage,” is ephemeral as it is no longer accessible once the VM it’s attached to is de-provisioned.

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## Question 8

1.0/1.0 point (graded)

What makes file storage an ideal solution for scenarios where shared storage is required?

☐ File storage is mounted to compute nodes via an ethernet network

☐ Fast accessibility of file storage over the network

☐ File storage can be mounted from remote storage appliances

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

**Answer**

Correct:

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

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## Question 9

1.0/1.0 point (graded)

Which of the following scenarios is best suited for Block Storage?

☐ Low cost is a consideration

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

☐ Where workloads do not require fast connectivity to storage

☐ Workloads that need disk sharing between compute nodes

**Answer**

Correct:

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

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## Question 10

1.0/1.0 point (graded)

Which of the following is a feature of Object storage?

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

☐ Used where fast read and write speeds are necessary

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

☐ Storage is attached to compute nodes using a fiber network

**Answer**

Correct:

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

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