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Grade 17.00 out of 20.00 (85%)

Question 1

Complete

Mark 1.00 out of 1.00

Which virtualization technique necessitates modifications to the guest operating system?

- a. Hosted virtualization
- b. Containerization
- c. Para-virtualization
- d. Hardware virtualization

The correct answer is: Para-virtualization

Question 2

Complete

Mark 1.00 out of 1.00

Hardware protection levels in a hybrid cloud architecture help to ensure:

- a. Compatibility with legacy systems
- b. Efficient resource utilization
- c. High network throughput
- d. Data privacy and security

The correct answer is: Data privacy and security



Question 3

Complete

Mark 1.00 out of 1.00

What role do availability zones play in a hybrid cloud architecture?

- a. Enhance security measures
- b. Ensure data consistency
- c. Provide fault tolerance
- d. Improve network performance

The correct answer is: Provide fault tolerance**Question 4**

Complete

Mark 0.00 out of 1.00

What is a benefit of hardware virtualization over para-virtualization?

- a. Lower hardware requirements
- b. Higher performance
- c. Reduced complexity
- d. Better isolation

The correct answer is: Higher performance**Question 5**

Complete

Mark 1.00 out of 1.00

Which cloud service provider offers EC2(Elastic Compute Cloud Service)?

- a. Amazon Web Services
- b. IBM Cloud
- c. Microsoft Azure
- d. Google Cloud Platform

The correct answer is: Amazon Web Services

Question 6

Complete

Mark 1.00 out of 1.00

What is a potential benefit of auto-scaling?

- a. Decreased flexibility
- b. Improved resource utilization
- c. Reduced scalability
- d. Increased upfront costs

The correct answer is: Improved resource utilization**Question 7**

Complete

Mark 1.00 out of 1.00

Microsoft Hyper-V is an example of:

- a. Type 2 hypervisor
- b. Type 4 hypervisor
- c. Type 3 hypervisor
- d. Type 1 hypervisor

The correct answer is: Type 1 hypervisor**Question 8**

Complete

Mark 1.00 out of 1.00

The primary goal of auto-scaling in cloud computing is to:

- a. Limit resource availability
- b. Maintain optimal performance
- c. Increase upfront costs
- d. Decrease scalability

The correct answer is: Maintain optimal performance

Question 9

Complete

Mark 1.00 out of 1.00

Hybrid cloud architecture combines:

- a. Virtualization and containerization
- b. IaaS and SaaS models
- c. Public and private cloud models
- d. Networking and storage technologies

The correct answer is: Public and private cloud models**Question 10**

Complete

Mark 1.00 out of 1.00

Para-virtualization requires modifications to the

- a. Host operating system
- b. Guest operating system
- c. Hypervisor
- d. Networking infrastructure

The correct answer is: Guest operating system**Question 11**

Complete

Mark 1.00 out of 1.00

Auto-scaling in cloud computing adjusts

- a. Networking resources only
- b. Security measures only
- c. Storage resources only
- d. Computing resources based on demand

The correct answer is: Computing resources based on demand

Question 12

Complete

Mark 1.00 out of 1.00

Which type of hypervisor is typically used in hosted virtualization environments?

- a. Type 1
- b. Type 2
- c. Type 4
- d. Type 3

The correct answer is: Type 2

Question 13

Complete

Mark 1.00 out of 1.00

Native hypervisors are installed

- a. On top of the host operating system
- b. In a containerized environment
- c. Directly on the physical hardware
- d. Within a virtual machine

The correct answer is: Directly on the physical hardware

Question 14

Complete

Mark 0.00 out of 1.00

In hardware virtualization

- a. The hypervisor modifies the guest OS for communication.
- b. Both the host and guest OS run on the same hardware.
- c. It requires modifications to the host operating system.
- d. The guest OS interacts directly with the underlying hardware.

The correct answer is: Both the host and guest OS run on the same hardware.



Question 15

Complete

Mark 1.00 out of 1.00

Which of the following is a key feature of Microsoft Hyper-V?

- a. Docker integration
- b. Live migration
- c. Kubernetes support
- d. Nested virtualization

The correct answer is: Live migration

Question 16

Complete

Mark 1.00 out of 1.00

What type of computing technology refers to services and applications that typically run on a distributed network through virtualized resources?

- a. Soft Computing
- b. Cloud Computing
- c. Distributed Computing
- d. Parallel Computing

The correct answer is: Cloud Computing

Question 17

Complete

Mark 1.00 out of 1.00

In a hybrid cloud architecture, IaaS stands for:

- a. Internet as a Service
- b. Integration as a Service
- c. Information as a Service
- d. Infrastructure as a Service

The correct answer is: Infrastructure as a Service



Question 18

Complete

Mark 1.00 out of 1.00

Which cloud computing model provides a fully managed platform for developing, deploying, and managing applications?

- a. SaaS
- b. IaaS
- c. PaaS
- d. DaaS

The correct answer is: PaaS

Question 19

Complete

Mark 0.00 out of 1.00

Auto-scaling in cloud computing helps to:

- a. Manage software updates
- b. Lower operational costs
- c. Minimize downtime
- d. Reduce security risks

The correct answer is: Minimize downtime

Question 20

Complete

Mark 1.00 out of 1.00

AWS and Azure are examples of:

- a. Network protocols
- b. Cloud service providers
- c. Virtualization platforms
- d. Container orchestration tools

The correct answer is: Cloud service providers



