Fundamentals of Cloud Security 1st edition Igonor Test Bank

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Chapter 1: An Overview of the Cloud and Cloud Computing

Multiple Choice

1. Cloud is a global network of which of the following located in different parts of the world?
    A) Computer's hard drives
    B) Remote servers
    C) Local area networks
    D) Personal computers

Ans: B
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Complexity: Easy
Taxonomy: Remembering/Understanding

2. Which of the following statements about cloud computing is correct?
    A) Organizations need to pay up front for services.
    B) It turns an operational expense into a capital expense.
    C) Organizations can pay based on what they use.
    D) It is the delivery of hardware using cloud infrastructure.

Ans: C
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Taxonomy: Remembering/Understanding

3. Which of the following characteristics of cloud computing underscores a transparent consumption model in which resource utilization is automatically controlled?
    A) Consumption-based model
    B) Rapid elasticity
    C) Resource pooling
    D) Metered service

Ans: D
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Taxonomy: Remembering/Understanding

4. Which characteristic of cloud computing helps achieve economy of scale?
A) Consumption-based model
B) Broad and global network access
C) Resource pooling and multi-tenancy
D) Rapid elasticity

Ans: C
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5. Which scenario best illustrates rapid elasticity in cloud computing?
A) A company's server capacity remains fixed despite fluctuating demand
B) An e-commerce site automatically adds servers during peak sales periods
C) A business shuts down cloud services permanently
D) A startup purchases physical servers to meet future demand

Ans: B
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6. Which of the following statements about consumption-based model is correct?
A) It requires upfront capital investment
B) It relies on manual hardware configuration
C) It allows easy provisioning without delays
D) It involves fixed, long-term service contracts

Ans: C
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7. Which statement best describes the difference between public and private clouds?
A) Public clouds are considered external to the organization, while private clouds are considered internal to the organization.
B) Public clouds include servers and storage that are available over the public Internet, while private clouds are exclusive to one organization.

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C) Public clouds are more expensive when compared to a private cloud, while private clouds are more cost-effective.
D) Public clouds are often used for tasks that are mission-critical, while private clouds are often used for tasks that are not mission-critical.

Ans: B
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8. Which of the following is an advantage of private cloud?
A) Flexibility to control and customize the cloud environment
B) Low ongoing capital expenses for the organization
C) No setup costs or maintenance burden on the organization
D) Low cost of dedicated support and maintenance

Ans: A
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9. Which of the following deployment models is known to offer "cloud bursting?"
A) Public
B) Private
C) Hybrid
D) Community

Ans: C
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10. Which of the following cloud deployment models offer low privacy and security as compared to others?
A) Public
B) Private
C) Hybrid
D) Community

Ans: A

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11. Which of the following is an advantage of a multi-cloud deployment model?
    A) Easy integration and customization
    B) Low staffing and support requirements
    C) Low cost of deployment and maintenance
    D) Organizations enjoy the best of clouds

Ans: D
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12. Which of the following cloud deployment models is essentially a private cloud deployed within a public cloud infrastructure?
    A) Virtual Private Cloud
    B) Hybrid cloud
    C) Multi-cloud
    D) Public cloud

Ans: A
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13. U.S. federal agencies, multiple government departments, universities, and research organizations are examples of which of the following?
    A) Public cloud
    B) Private cloud
    C) Multi-cloud
    D) Community cloud

Ans: D
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14. What is the similarity between public cloud and virtual private cloud?
   A) Both incur the upfront cost of physical infrastructure
   B) Both operate on a consumption-based model
   C) Both are considered internal to an organization
   D) Both must be hosted entirely on the customer's premises

Ans: B
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15. A research network of multiple universities sets up a shared cloud infrastructure to store and process large datasets relevant to their field. Only members of these universities have access to the resources. Which cloud deployment model fits this scenario?
A) Public cloud
B) Community cloud
C) Private cloud
D) Hybrid cloud

Ans: B
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16. A company uses AWS for analytics, Dell APEX for backup, and Azure for web hosting. Each service is from a different cloud provider. Which deployment model does this describe?
A) Hybrid cloud
B) Multi-cloud
C) Public cloud
D) Virtual Private cloud

Ans: B
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17. Which of the following cloud deployment models offer very high reliability, customization, control and flexibility?

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A) Public and private
B) Private and community
C) VPC and public
D) Multi-cloud and private

Ans: D
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18. Which of the following is sometimes referred to as cloud computing bare bones?
    A) Infrastructure-as-a-Service
    B) Function-as-a-service
    C) Platform-as-a-Service
    D) Software-as-a-Service

Ans: A
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19. Which of the following is an advantage of Infrastructure-as-a-Service (IaaS)?
    A) Offers high flexibility and customization
    B) Operates on a pay-as-you-go model
    C) Standard costs independent of resource usage
    D) Offers a high level of privacy and security

Ans: B
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20. Which of the following is the correct comparison between IaaS and PaaS?
    A) Organizations have less control over the resources and tools provided in a PaaS environment compared to IaaS.
    B) Unlike PaaS, IaaS provides the platform for organizations to develop and deploy applications in the cloud.
    C) Unlike IaaS, PaaS offers easy integration between hardware, software, and other infrastructure.

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D) Organizations have a higher level of privacy and security in a PaaS environment compared to IaaS.

Ans: A
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21. Which of the following is an example of SaaS applications that include communication and collaboration solutions?
A) Customer relationship management
B) Enterprise resource planning
C) Supply chain management
D) Google Docs

Ans: D
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22. Which of the following is an example of serverless computing?
A) Infrastructure-as-a-Service
B) Function-as-a-Service
C) Platform-as-a-Service
D) Software-as-a-Service

Ans: B
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23. An organization wants employees to access email, documents, and collaboration software over the Internet without managing infrastructure, servers, or operating systems. They are willing to follow a subscription model and manage user access policies.
Which cloud service model is most suitable?
A) Infrastructure-as-a-Service
B) Function-as-a-Service
C) Platform-as-a-Service
D) Software-as-a-Service

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Ans: D
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24. A small- to medium-sized organization with limited resources wants to focus on providing services instead of the resources, infrastructure, or platform needed to provide the service. They plan to deploy pre-developed code inside containers and want to be charged only for the functions they deploy. Which computing model should they adopt?

A) Platform-as-a-Service
B) Software-as-a-Service
C) Edge computing
D) Serverless computing

Ans: D
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25. How does serverless computing execute code?
A) Continuously on dedicated servers
B) Only in response to events or requests
C) Randomly at scheduled intervals
D) Manually by the organization

Ans: B
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26. Which of the following describes the cost benefits of serverless computing?
A) It follows a consumption-based model.
B) Developers can easily scale code development
C) Processes to debug the server rest with the organization.
D) Developers can run a container orchestration service.

Ans: A
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27. What is the effect of minimized infrastructure use, especially servers and bandwidth, in edge computing?
    A) Reduced latency
    B) Reduced cost
    C) New features
    D) Increased privacy

Ans: B
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28. Which of the following statements accurately compares serverless computing and edge computing?
    A) Serverless computing runs code only in response to events or requests, whereas edge computing is a way to move computing closer to the data source.
    B) Serverless computing increases control over server infrastructure, whereas edge computing removes all developer responsibility.
    C) Serverless computing is primarily used for IoT devices, whereas edge computing only benefits small- to medium-sized organizations.
    D) Serverless computing requires constant server management, whereas edge computing automatically scales functions without human intervention.

Ans: A
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29. Which feature of cloud computing allows organizations to dynamically adjust resources as demand changes?
    A) Privacy and security
    B) Scalability
    C) Economies of scale
    D) Reliability

Ans: B
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30. What is a challenge related to visibility into cloud operations?

A) Cloud operations rest on a trust model.
B) Cloud operations rest on a consumption-based model.
C) Cloud operations rest on a subscription model.
D) Cloud operations rest on an API-driven model.

Ans: A
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True False

1. In cloud computing, organizations can rent from the cloud service providers.
A) True
B) False

Ans: A
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2. Local network access and single-tenancy are key characteristics of cloud computing.
A) True
B) False

Ans: B
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3. In metered service, organizations have visibility into their consumption habits.

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A) True
B) False

Ans: A
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4. In public clouds, there is a need to invest in hardware or software.
A) True
B) False

Ans: B
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5. Private clouds are usually managed in-house by the organization's IT department or by a third-party cloud service provider.
A) True
B) False

Ans: A
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6. Hybrid clouds require dedicated human resources with higher operating expenses for maintenance.
A) True
B) False

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7. In serverless computing, organizations focus on the ways code or applications are executed.
    A) True
    B) False

Ans: B
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8. Organizations can deploy IaaS in private, public, and hybrid cloud environments.
    A) True
    B) False

Ans: A
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9. Edge computing moves data from its source to where it's most needed.
    A) True
    B) False

Ans: B
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10. Cloud computing can support compliance requirements across various jurisdictions.
    A) True
    B) False

Ans: A
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