CHAPTER 1

Cloud Computing Concepts, Models, and Terminology

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Cloud Computing Concepts, Models, and Terminology

In this chapter, you will learn about

- Cloud service models

- Cloud deployment models and services

- Cloud characteristics and terms

- Advanced cloud services

1. Which of the following would be considered an example of IaaS?

A. Providing productivity software for use over the Internet

B. A multiuser program that is hosted by a third party

C. Providing hardware resources over the Internet

D. A database that is hosted in the cloud

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C. Providing hardware resources over the Internet

D. A database that is hosted in the cloud

C. Providing hardware resources over the Internet is an example of IaaS. Infrastructure as a Service (IaaS) is a cloud service model that offers server storage, infrastructure, and connectivity domains to a cloud consumer.

2. Which term is used to define the increasing number of services delivered over the Internet?

A. XaaS

B. CaaS

C. MaaS

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Voice over IP is an example of Communications as a Service (CaaS) because it is a cloud-based phone system, which is a form of communications.

4. Which of the following cloud solutions provides only hardware and network resources to make up a cloud environment?

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In a cloud service model, IaaS providers offer computers and other hardware resources. Organizations would outsource the equipment needed to support their business.

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C. PaaS

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PaaS provides a platform that an organization can use to build their applications and services on. These systems can then be accessed over the Internet. PaaS is hosted in the cloud and accessed with a web browser.

6. What type of computing solution would be defined as a platform that is implemented within the corporate firewall and is under the control of the IT department?

A. Private cloud

B. Public cloud

C. VLAN

D. VPN

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D. VPN

A private cloud is a cloud computing solution that is implemented behind a corporate firewall and is under the control of the internal IT department.

7. A cloud deployment has been created explicitly for the finance department. What type of cloud deployment would this be defined as?

A. Public cloud

B. Hybrid cloud

C. Community cloud

D. Private cloud

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A community cloud is a cloud solution that provides services to a specific or limited number of individuals who share a common computing need.

8. Which of the following statements would be used to explain a private cloud but not a public cloud?

A. Used as a service via the Internet

B. Dedicated to a single organization

C. Requires users to pay a monthly fee to access services

D. Provides incremental scalability

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B. Dedicated to a single organization

C. Requires users to pay a monthly fee to access services

D. Provides incremental scalability

A private cloud is dedicated to a single organization and is contained with the corporate firewall.

9. Which of the following statements is a benefit of a hybrid cloud?

A. Data security management

B. Requirement of a major financial investment

C. Dependency of internal IT department

D. Complex networking

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D. Complex networking

A hybrid cloud offers the ability to keep the organization's mission-critical data behind a firewall and outside of the public cloud.

10. Which of the following would be considered an advantage of cloud computing?

A. Increased security

B. Ability to scale to meet growing usage demands

C. Ease of integrating equipment hosted in other data centers

D. Increased privacy for corporate data

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One of the benefits of cloud computing is the ability to easily scale and add resources to meet the growth of the organization.

11. Which statement defines chargeback?

A. The recovery of costs from consumers of cloud services

B. The process of identifying costs and assigning them to specific cost categories

C. A method of ensuring that cloud computing becomes a profit instead of a cost

D. A system for confirming that billing occurs for the cloud services being used

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The purpose of a chargeback system is to measure the costs of IT services, hardware, or software and recover them from the business unit or cloud consumer that used them.
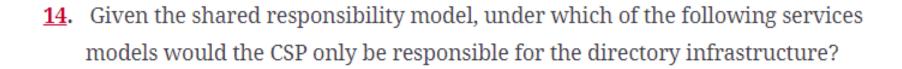
12. When you run out of compute resources in your internal data center and expand to an external cloud on demand, this is an example of what?

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C. Cloud bursting

D. Elasticity

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B. Hybrid cloud

C. Cloud bursting

D. Elasticity

Cloud bursting allows you to add resources from an external cloud on an on-demand basis. The internal resource is the private cloud, and the external resource is the public cloud.

13. A company wants to deploy a private cloud but does not want to invest in the infrastructure associated with a private cloud. Which solution should they consider?

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B. Cloud within a cloud

C. Community cloud

D. On-premises hosting

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Cloud within a cloud offers the flexibility of a private cloud without the investment and operational cost of the infrastructure.

14. Given the shared responsibility model, under which of the following services models would the CSP only be responsible for the directory infrastructure?

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B. PaaS

C. IaaS

D. All of the above

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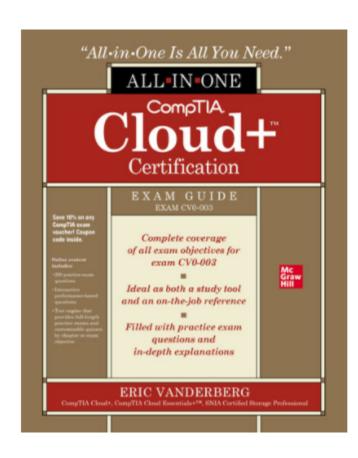
A. SaaS

B. PaaS

C. IaaS

D. All of the above

Under IaaS, the CSP is responsible for everything except data, end-user systems, and user and service account management.

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