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Module 1 Graded Quiz: Overview of Cloud Computing

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Graded Quiz due Dec 1, 2023 10:24 IST Completed

Question 1

1.0/1.0 point (graded)

According to the US National Institute of Standards and Technology (NIST) definition of “cloud computing”, what does the statement “shared pool of configurable computing resources” denote?

- ☒ Networks, servers, storage, applications, and services
- ☐ Five essential characteristics, three deployment models, and three service models
- ☐ Data security, associated with loss or unavailability of data causing business disruption
- ☐ Leveraging cloud services over the open internet on hardware owned by the cloud provider



Answer

Correct:

These are all recognized as computing resources that can be configured as needed and shared.

Submit

Try again (1 attempt remaining) ⓘ

Question 2

1.0/1.0 point (graded)

What tasks do hypervisors accomplish? Select two.

- ☒ Enable multiple operating systems to run alongside each other, sharing the same physical computing resources
- ☐ Facilitate access to mainframes for multiple users to access the same data storage layer
- ☐ Scale on demand to support fluctuating workloads
- ☒ Separates VMs logically and assigns each a share of the underlying computing power, memory, and storage



Answer

Correct:

A hypervisor is a small software layer that enables multiple operating systems to run alongside each other, sharing the same physical computing resources.

Hypervisors also separate virtual machines logically, assigning each its own slice of the underlying computing power, memory, and storage, preventing the virtual machines from interfering with each other.

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Question 3

1.0/1.0 point (graded)

Which key consideration for the selection of cloud computing by an organization considers expenditure on off-the-shelf software and investment in upgrades?

- ☐ Risk exposure

☒ Software as a service and development platforms

☐ Speed and productivity

☐ Infrastructure and workloads



Answer

Correct:

Organizations need to consider if paying for application access is a more viable option than purchasing off-the-shelf software and subsequently investing in upgrades.

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Try again (1 attempt remaining) 

Question 4

1.0/1.0 point (graded)

Which of the following is a benefit of cloud computing?

☐ Business continuity

☐ Lack of standardization in how the constantly evolving technologies integrate

☒ Hardware failures do not result in data loss because of backups maintained on the network

☐ Data security, associated with loss or unavailability of data



Answer

Correct:

Cloud-based applications and data are accessible from virtually any internet-connected device. Hardware failures do not result in data loss because of backups maintained on the network.

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You have used 2 of 2 attempts

Question 5

1.0/1.0 point (graded)

Which service provider provides one of the largest cloud-based data management platforms?

☐ Salesforce

☐ Amazon Web Services

☒ Oracle Cloud

☐ Alibaba cloud



Answer

Correct:

Oracle Data Cloud provides one of the largest cloud-based data management platforms helping customers personalize their online, offline, and mobile marketing campaigns, for targeted audiences.

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You have used 2 of 2 attempts

Question 6

1.0/1.0 point (graded)

Which service provider uses its cloud platform internally for their end-user products such as Search and app engines that automatically allocate and de-allocate resources to handle demand?

☐ SAP

☐ Oracle Cloud

☒ Google Cloud Platform

☐ Microsoft Azure



Answer

Correct:

Google uses GCP internally for their end-user products such as Google Search and YouTube. The Google App Engine is a platform for developing and hosting web applications in Google-managed data centers, automatically allocating and de-allocating resources to handle demand.

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Question 7

1.0/1.0 point (graded)

According to the International Data Corporation (IDC), what is that crucial ability that will make cloud computing essential for businesses to succeed, sustain, and compete in today's markets?

☐ Multi-cloud infrastructures

☒ Data-driven decisions

☐ Applied exponential technologies such as AI, Automation, IoT, and Blockchain

☐ Cognitively enabled workflows



Answer

Correct:

Considering the unprecedented amounts of data being produced daily and the ability to make data-driven decisions crucial to any business, the power, resources, and technologies available on the cloud will make cloud essential for businesses to succeed, sustain, and compete.

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Question 8

1.0/1.0 point (graded)

Why did American Airlines require a new technology platform?

☒ Requirement of a better customer service

☐ Establishment of a scalable hosting platform for low-latency delivery

☐ Acceleration of growth

☐ Removal of barriers to innovation



Answer

Correct:

To become more responsive to customer needs, American Airlines needed a new technology platform and a new approach to development that would help it deliver digital self-service tools and customer value more rapidly across its enterprise.

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You have used 2 of 2 attempts

Question 9

1.0/1.0 point (graded)

How does Cloud Computing help IoT devices? Select two.



Provides the resources to store and process the data produced by IoT devices and users



Provides a fixed physical location for the data collected from IoT devices



Minimizes latency in reporting and responding to data collected through IoT sensors from around the world



Draws insights from data collected from the IoT devices and users



Answer

Correct:

IoT devices are generating unprecedented amounts of data around the world, and the cloud provides the resources to gather, store, and process this data.

Since IoT devices can be in a state of motion, the cloud serves as a collection point in closest proximity, minimizing the latency in reporting up the data points and providing a response back to the IoT application.

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Question 10

1.0/1.0 point (graded)

Which of the following denotes the relationship between Blockchain, AI, and cloud?



Blockchain lends trust and transparency to AI by recording the data and variables that go into a decision made in an AI algorithm, and cloud provides the immutable network.



Blockchain provides an immutable network, AI provides distributed computing resources and cloud powers decision-making.



Blockchain provides the distributed computing resources, AI powers the analytics, and cloud records the data.



Blockchain provides a decentralized source of truth, AI powers the analytics and decision-making, and cloud provides globally distributed computing resources



Answer

Correct:

Blockchain technology provides the trusted, decentralized source of truth, AI powers the analytics and decision-making from the data collected, and cloud provides globally distributed, scalable, and cost-efficient computing resources to support both the unprecedented amounts of data being collected and the processing power required to draw insights from this data.

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