IBM CC0101EN
Introduction to Cloud Computing

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Course   Progress   Dates   Discussion

🏠 **Course** / Module 1 - Overview of Cloud ... / Module 1 Graded Quiz: Overview of Clou...

Previous   Next ⟩

Module 1 Graded Quiz: Overview of Cloud Computing

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Graded Quiz due May 28, 2024 08:07 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.

[Submit]   Try again (1 attempt remaining) ⓘ

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.

Submit   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.

Submit   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.

Submit   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.

[Submit]   Try again (1 attempt remaining) ℹ️

Question 7

0.0/1.0 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
Incorrect: Review the Cloud Adoption – No longer a choice video.

[Submit]   You have used 2 of 2 attempts

Question 8

0.0/1.0 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
Incorrect: Review the Cloud Adoption – Some case studies video.

Submit   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.

Submit   You have used 2 of 2 attempts

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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‹ Previous

Next ›

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