IBM CC0101EN
Introduction to Cloud Computing

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Module 5 Graded Quiz: Cloud Security, Monitoring, Case Studies, Jobs and Final Assignment

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Graded Quiz due Dec 19, 2023 16:37 IST   Completed

Question 1

1.0/1.0 point (graded)
Cloud computing is a key part of an enterprise's digital transformation strategy. *True or false.*

- ◉ True
- ○ False

✔

Answer
Correct:
Correct! As more and more companies are moving critical business processes and applications to a mix of cloud infrastructures, qualified cloud computing professionals are in high demand.

Submit   You have used 1 of 2 attempts

Question 2

1.0/1.0 point (graded)
What are some best practices organizations need to follow in order to protect their cloud resources and systems? *Select two* .

- ☑ Active monitoring for security and compliance
- ☐ Run security monitoring tools on a periodic basis to ensure security threats and breaches are flagged
- ☑ Adopt a shared responsibility model
- ☐ Distribute tasks, workloads, and network traffic

✔

Answer
Correct:
Correct! To ensure stability and enforcement of compliance standards and business continuity, enterprises need to set up active monitoring of all connected systems and cloud-based services. Correct! Operating applications and services in cloud environments demands understanding the shared accountabilities for security and compliance between the organization and cloud provider.

Submit   You have used 2 of 2 attempts

Question 3

1.0/1.0 point (graded)
Which of the following are key components of Identity and Access Management (IAM)? *Select two* .

- ☐ Protecting data while it is at rest, in motion, and in use
- ☑ Cloud Directory Services
- ☑ Audit and Compliance
- ☐ Embedding security through the life cycle of an application

✔

Answer

Correct:
Cloud Directory Services are used to manage user profiles and their associated credentials and password policy inside a cloud environment.
Correct! Audit and compliance is a critical service within the IAM framework. Auditors use these processes to validate implemented controls against an organization's security policy, industry compliance, and risk policies to report deviations.

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Question 4

1.0/1.0 point (graded)
Which of these statements is true of cloud encryption?

A. Encryption ensures only authorized users have access to sensitive data.

B. When encrypted data is intercepted without authorization, it is unreadable and meaningless?

C. Encryption protects data when it is at rest, in transit, and in use in memo.

D. Encryption eliminates data security risk.

- ○ A and C only

- ○ A, B, and D only

- ● A, B, and C only

- ○ A, B, C, and D

✔

Answer
Correct:
Correct! Encryption does not eliminate data security risk—it separates the security risk from the data itself by moving security to the encryption keys.

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Question 5

1.0/1.0 point (graded)
Identify some of the standard cloud monitoring best practices from the provided options. *Select two*.

- ☐ Authenticate users attempting to access their cloud resources.

- ☐ Encrypt data before it is sent to the cloud.

- ☑ Leverage end-user experience monitoring solutions to capture the performance of an application from the point of view of its end users.

- ☑ Track usage and cost of your cloud resources and services.

✔

Answer
Correct:

Correct! End-user experience monitoring solutions monitor user journeys to track parameters such as application response time and frequency of use. These insights can be leveraged to improve customer experience.
Correct! Organizations can leverage cloud monitoring tools to monitor and optimize the usage of their cloud resources and services.

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Question 6

1.0/1.0 point (graded)
What are some of the monitoring tools that help you to gain insights about your posture, compliance, and threats? *Select two* .

- ☑ Flow logs from the network
- ☑ Security events
- ☐ Hypervisors
- ☐ Data encryption

✓

Answer
Correct:
Correct! Flow logs help to monitor information about how the network resources are operating.
Correct! Security events indicate when a security policy may have been violated.

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Question 7

1.0/1.0 point (graded)
What are some of the benefits of using access groups? *Select two* .

- ☑ The use of access groups helps to reduce the number of policies in an account.
- ☐ Access groups define the users, the resources to which access is being granted, and the permission level that each user has on these resources.
- ☐ Access groups create an additional level of authentication for application users.
- ☑ Access groups provide a more streamlined way to assign access rights to a group of users and service IDs as compared to assigning individual access.

✓

Answer
Correct:
Correct! Access policies defined at a group level means lesser access policies, which in turn leads to increased performance.
Correct! Access groups make it possible to assign the same access to all entities within the group 76.

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Question 8

1.0/1.0 point (graded)
Identify the two main parts of an encryption system from the provided options. *Select two* .

☐ Client-side encryption

☐ Server-side encryption

☑ The encryption algorithm

☑ The decryption key

✔

Answer
Correct:
Correct! The encryption algorithm defines the rules by which data is scrambled so that it becomes illegible.
Correct! The decryption key defines how the encrypted data will be transformed back to legible data.

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Question 9

1.0/1.0 point (graded)
What are some of the benefits that cloud monitoring solutions offer? *Select two* .

☑ Accelerate the diagnosis and resolution of performance incidents

☐ Provide proactive notifications of abnormal or unusual situations

☑ Troubleshoot applications and infrastructure

☐ Prevent unauthorized users from accessing the systems

✔

Answer
Correct:
Correct! Cloud monitoring solutions are designed to give organizations complete visibility and control over the performance of their cloud resources.
Correct. Round-the-clock monitoring tools provide data and notifications in real-time, helping developers and administrators troubleshoot and resolve issues.

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Question 10

1.0/1.0 point (graded)
The Weather Company migrated its weather web property to a secure, scalable, and global architecture in the IBM Cloud. What are some of the benefits they realized as a result of this migration? *Select two* .

☑ Optimize their systems for elasticity in handling extreme spikes in demand which can mean a difference between life and death for its users

☐ Increase asset availability and overall equipment effectiveness

☐ Faster development and release of new apps and digital self-service tools to customers

☑ Harness local data centers to minimize latency for users spread across the globe

✔

Answer

Correct:
Correct! With load peaking to over 100 million users in severe weather conditions and about 250 billion forecasts on-demand generated in a day, The Weather Company leveraged cloud's scalability to handle massive, short-notice peak workloads.
Correct! Since weather is a hyper-local phenomenon, the scalability of the web platform needs to be localized, which is made possible with cloud technologies.

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