

✓ Congratulations! You passed!

Grade received 100% To pass 60% or higher

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1. What are some of the key elements of data protection discussed in the “What is Cloud Security” video?

1 / 1 point

- A. Data at rest
- B. Data in motion
- C. Data in use
- D. Dynamic and static scanning of applications

- ☐ B and C only
- ☐ A and B only
- ☒ A, B, and C only
- ☐ A, B, C, and D

✓ Correct

Protecting data while it is at rest, in motion, and in use, gives you complete control over your data

2. What are some of the monitoring tools that help you to gain insights about your posture, compliance, and threats? *Select two.*

1 / 1 point

☒ Security events

✓ Correct

Security events indicate when a security policy may have been violated.

☐ Hypervisors

☐ Data encryption

☒ Flow logs from the network

✓ Correct

Flow logs help to monitor information about how the network resources are operating.

3. What is the role SecDevOps plays in cloud security?

1 / 1 point

- ☐ Provides policies, technological procedures, services, and solutions to secure the enterprise against security threats and breaches
- ☐ Identity and Access Management
- ☒ Security in the DevOps process helps embed security through the life cycle of an application
- ☐ Helps maintain visibility of all data exchanges between public, private, and hybrid cloud environments

✓ Correct

Security embedded through the DevOps cycle helps to ensure that the application runs on a safe platform, the code is free from vulnerabilities, and operational risks are understood.

4. What are some of the benefits of using access groups? *Select two.*

1 / 1 point

☐ 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 provide a more streamlined way to assign access rights to a group of users and service IDs as compared to assigning individual access

✓ Correct

Access groups make it possible to assign the same access to all entities within the group. 76

☒ The use of access groups helps to reduce the number of policies in an account

✓ Correct

Access policies defined at a group level means lesser access policies, which in turn leads to increased performance.

☐ Access groups create an additional level of authentication for application users

5. Identify the two main parts of an encryption system from the provided options. *Select two.*

1 / 1 point

☒ The encryption algorithm

✓ **Correct**

The encryption algorithm defines the rules by which data is scrambled so that it becomes illegible.

☐ Server-side encryption

☒ The decryption key

✓ **Correct**

The decryption key defines how the encrypted data will be transformed back to legible data.

☐ Client-side encryption

6. What are some of the benefits that cloud monitoring solutions offer? *Select two.*

1 / 1 point

☒ Accelerate the diagnosis and resolution of performance incidents

✓ **Correct**

Cloud monitoring solutions are designed to give organizations complete visibility and control over the performance of their cloud resources.

☐ Troubleshoot applications and infrastructure

☐ Prevent unauthorized users from accessing the systems

☒ Provide proactive notifications of abnormal or unusual situations

✓ **Correct**

Cloud monitoring solutions help mitigate the impact of abnormal situations by providing proactive notifications.

7. What are some of the common outcomes' companies like The Weather Company, American Airlines, Cementos Pacasmayo, Welch Foods, and LiquidPower achieve with cloud migration?

1 / 1 point

A. Meeting the information/service needs of their customers

B. Resolving their scalability challenge

C. Cost efficiencies

☒ A, B, and C

☐ A and C only

☐ A and B only

☐ B and C only

✓ **Correct**

All are correct.

8. 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.*

1 / 1 point

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

✓ **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.

☐ Increase asset availability and overall equipment effectiveness

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

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

✓ **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.

9. What are some of the technical skills necessarily required for the role of Cloud Software Engineer? *Select two.*

1 / 1 point

☒ Knowledge of data structures, distributed systems, operating systems, and algorithms

 **Correct**

Cloud Software Engineers work through all phases of the software development lifecycle—writing, testing, and maintaining code, making these skills essential for their job.

☐ Understanding existing systems to recommend automated integration of disparate data sets

☒ Proficiency in commonly used web application development languages, such as Python, JavaScript, Java, HTML, and CSS

 **Correct**

Cloud Software Engineers work with the front- and back-end of applications, as well as platforms and systems that their applications run on. These technical skills are essential for their job.

☐ Perform threat simulations to detect possible risks