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CV0-004 Exam

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Question 1. (Multi Select)

A customer is migrating applications to the cloud and wants to grant authorization based on the classification levels of each system. Which of the following should the customer implement to ensure authorisation to systems is granted when the user and system classification properties match? (Select two).

A: Resource tagging
B: Discretionary access control
C: Multifactor authentication
D: Role-based access control
E: Token-based authentication
F: Bastion host

Correct Answer: B, D

Explanation:
Discretionary Access Control (DAC) and Role-Based Access Control (RBAC) are effective methods for granting authorization based on system classification levels. DAC allows resource owners to grant access rights, making it flexible for environments with varying classification levels. RBAC assigns permissions based on roles within an organization, aligning access rights with the user's job functions and ensuring that users access only what is necessary for their role, which can be mapped to system classifications.
: CompTIA Cloud+ content covers various access control models, emphasizing the importance of implementing appropriate security measures that align with organizational policies and classification levels to ensure secure and authorized access to cloud systems.

Question 2. (HOTSPOT)

An e-commerce company is migrating from an on-premises private cloud environment to

a public cloud IaaS environment. You are tasked with right-sizing the environment to

save costs after the migration. The company's requirements are to provide a 20% overhead above the average resource consumption, rounded up.

INSTRUCTIONS

Review the specifications and graphs showing resource usage for the web and database servers.

Determine the average resource usage and select the correct specifications from the available drop-down options.

Correct Answer:

Question 3. (Single Select)

An engineer made a change to an application and needs to select a deployment strategy that meets the

following requirements:

• Is simple and fast

• Can be performed on two Identical platforms

Which of the following strategies should the engineer use?

A: Blue-green
B: Canary
C: Rolling
D: in-place

Correct Answer: A

Explanation:
The blue-green deployment strategy is ideal for scenarios where simplicity and speed are crucial. It involves two identical production environments: one (blue) hosts the current application version, while the other (green) is used to deploy the new version. Once testing is completed on the green environment and it's ready to go live, traffic is switched from blue to green, ensuring a quick and efficient rollout with minimal downtime. This method allows for immediate rollback if issues arise, by simply redirecting the traffic back to the blue environment.
: CompTIA Cloud+ material emphasizes the importance of understanding various cloud deployment strategies, including blue-green, and their application in real-world scenarios to ensure efficient and reliable software deployment in cloud environments.

Question 4. (Single Select)

A cloud engineer is provisioning a new application that requires access to the organization's public cloud resources. Which of the following is the best way for the cloud engineer to authenticate the application?

A: Access key
B: API
C: MFA token
D: Username and Password

Correct Answer: A

Explanation:

The best way to authenticate an application requiring access to an organization's public cloud resources is through the use of an access key. Access keys provide a secure means of authentication for applications and services without the need for interactive login credentials. This method is particularly useful for automated processes or applications that need to interact with cloud services programmatically, ensuring secure and efficient access control.

: CompTIA Cloud+ content emphasizes the importance of secure authentication mechanisms, such as access keys, in managing and securing access to cloud resources, aligning with best practices for cloud security and application deployment.

Question 5. (Single Select)

A security engineer Identifies a vulnerability m a containerized application. The vulnerability can be exploited by a privileged process to read tie content of the host's memory. The security engineer reviews the following Dockerfile to determine a solution to mitigate similar exploits:

Which of the following is the best solution to prevent similar exploits by privileged processes?

A: Adding the USER myappuserinstruction
B: Patching the host running the Docker daemon
C: Changing FROM alpiner3.17 to FROM alpine:latest
D: Running the container with the ready-only filesystem configuration

Correct Answer: A

Explanation:

Adding the "USER myappuser" instruction to the Dockerfile is the best solution to prevent similar exploits by privileged processes. This instruction ensures that the container runs as a non-privileged user instead of the root user, significantly reducing the risk of privileged exploits. Running containers with least privilege principles minimizes the potential impact of vulnerabilities, enhancing the overall security posture of the containerized environment.

: The CompTIA Cloud+ framework includes security concerns, measures, and concepts for cloud operations, highlighting the importance of container security practices, such as running containers as non-root users to prevent unauthorized access and exploitation.