



## CompTIA Cloud+ CV0-004 Practice Questions

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## Question 1

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Question Type: MultipleChoice

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A company's content management system (CMS) service runs on an IaaS cluster on a public cloud. The CMS service is frequently targeted by a malicious threat actor using DDoS.

Which of the following should a cloud engineer monitor to identify attacks?

Options:

- A- Network flow logs
- B- Endpoint detection and response logs
- C- Cloud provider event logs
- D- Instance syslog

Answer:

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A

Explanation:

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To identify DDoS attacks against a CMS service, a cloud engineer should monitor network flow logs. These logs provide data about the IP traffic going to and from network interfaces in a public cloud, which is essential for detecting the increased traffic volumes typically associated with DDoS attacks. References: CompTIA Cloud+ Study Guide (Exam CV0-004) - Chapter on Security in the Cloud

## Question 2

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Question Type: MultipleChoice

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A company's VMs that are created using the noncritical application tag are automatically shut down at 5:00 p.m. using a cronjob. Which of the following actions would allow a cloud engineer to stop all unresponsive instances with the least effort in case the automation fails?

Options:

- A- Using the cloud audit logs for tagging and stopping events
- B- Using the cloud provider web console to check and stop the instances

- C- Using the cloud provider command line to stop the Instances based on tags
- D- Using a Bash script to shut down all instances

Answer:

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C

### Question 3

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Question Type: MultipleChoice

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A company runs a discussion forum that caters to global users. The company's monitoring system reports that the home page suddenly is seeing elevated response times, even though internal monitoring has reported no issues or changes. Which of the following is the most likely cause of this issue?

Options:

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- A- Cryptojacking
- B- Human error
- C- DDoS
- D- Phishing

Answer:

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C

Explanation:

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Elevated response times without reported issues or changes internally could indicate a Distributed Denial of Service (DDoS) attack, where multiple systems flood the bandwidth or resources of a targeted system, usually one or more web servers. References: CompTIA Security+ Guide to Network Security Fundamentals by Mark Ciampa.

### Question 4

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Question Type: MultipleChoice

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A DevOps engineer is integrating multiple systems. Each system has its own API that exchanges data based on different application-level transactions. Which of the following delivery mechanisms would best support this integration?

Options:

- A- Enterprise service bus
- B- Socket
- C- RPC
- D- Queue

Answer:

A

Explanation:

An Enterprise Service Bus (ESB) is designed to facilitate application integration by providing a centralized architecture for high-level, message-based, and event-driven communication between different systems. It is particularly well-suited for integrating multiple systems with their own APIs because it can handle various data formats and protocols, enabling different applications to communicate with each other seamlessly. References: CompTIA Cloud+ Certification Study Guide (Exam CV0-004) by Scott Wilson and Eric Vanderburg

## Question 5

Question Type: MultipleChoice

A junior cloud administrator was recently promoted to cloud administrator and has been added to the cloud administrator group. The cloud administrator group is the only one that can access the engineering VM. The new administrator unsuccessfully attempts to access the engineering VM. However, the other administrators can access it without issue. Which option best is the best way to identify the root cause?

Options:

- A- Rebooting the engineering VM
- B- Reviewing the administrator's permissions to access the engineering VM
- C- Allowing connections from 0.0.0.0/70 to the engineering VM
- D- Performing a packet capture on the engineering VM

Answer:

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B

Explanation:

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The best way to identify the root cause of why the new cloud administrator cannot access the engineering VM is by reviewing the administrator's permissions. It is possible that, despite being added to the cloud administrator group, the specific permissions to access the engineering VM were not properly configured.

: Permission issues are a common problem in cloud environments, and troubleshooting such issues is part of the cloud management skills discussed in the CompTIA Cloud+ certification

## Question 6

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Question Type: MultipleChoice

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A CI/CD pipeline is used to deploy VMs to an IaaS environment. Which of the following can be used to harden the operating system once the VM is running?

Options:

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- A- Docker
- B- Kubernetes
- C- Git
- D- Ansible

Answer:

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D

Explanation:

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Ansible can be used to harden the operating system once the VM is running. It is an automation tool that can configure systems, deploy software, and orchestrate more advanced IT tasks such as continuous deployments or zero downtime rolling updates.

: Ansible and other configuration management tools are part of the cloud management strategies discussed in the CompTIA Cloud+ certification material.

## Question 7

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Question Type: MultipleChoice

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A cloud engineer was deploying the company's payment processing application, but it failed with the following error log:

ERFOR:root: Transaction failed http 429 response, please try again Which of the following are the most likely causes for this error? (Select two).

Options:

- A- API throttling
- B- API gateway outage
- C- Web server outage
- D- Oversubscription
- E- Unauthorized access
- F- Insufficient quota

Answer:

A, F

Explanation:

The error 'http 429 response, please try again' typically indicates API throttling, where the number of requests exceeds the rate limit set by the API provider, and insufficient quota, where the allowed number of API calls within a given timeframe has been exceeded.

: API throttling and quota management are key concepts in the management of cloud resources, as highlighted in the CompTIA Cloud+ curriculum.

## Question 8

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Question Type: MultipleChoice

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Which of the following is a direct effect of cloud migration on an enterprise?

**Options:**

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- A- The enterprise must reorganize the reporting structure.
- B- Compatibility issues must be addressed on premises after migration.
- C- Cloud solutions will require less resources than on-premises installations.
- D- Utility costs will be reduced on premises.

**Answer:**

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D

**Explanation:**

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Cloud migration typically results in a reduction of on-premises utility costs because the physical infrastructure requirements, such as power and cooling, are transferred to the cloud provider. This shift can lead to significant savings in utility expenses for the enterprise. References: CompTIA Cloud+ Guide to Cloud Computing (ISBN: 978-1-64274-282-2)

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**Question 9**

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**Question Type:** MultipleChoice

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Which option best types of storage provides the greatest performance advantage for a traditional relational database?

**Options:**

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- A- File
- B- Object
- C- Block
- D- Ephemeral

**Answer:**

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C

**Explanation:**

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Block storage provides the greatest performance advantage for traditional relational databases due to its high performance and low-latency characteristics. Block storage allows databases to rapidly manage data in fixed-sized blocks, which is ideal for databases that require frequent

read/write operations.

: Understanding different storage types and their use cases, including block storage for databases, is part of the cloud computing knowledge base covered in CompTIA Cloud+.

## Question 10

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Question Type: MultipleChoice

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A cloud administrator learns that a major version update, 4.6.0, is available for a business-critical application. The application is currently on version 4.5.2, with additional minor versions 3, 4, and 5 available. The administrator needs to perform the update while minimizing downtime. Which option best should the administrator do first?

### Options:

- A- Apply the minor updates and then restart the machine before applying the major update.
- B- During off hours, decommission the machine and create a new one directly on major update 4.6.0.
- C- Stop the service and apply the major updates directly.
- D- Create a test environment and apply the major update

### Answer:

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D

### Explanation:

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The first step the administrator should take is to create a test environment and apply the major update there. This allows for testing the new version without impacting the production environment, thus minimizing downtime and the potential for unexpected issues.

: Creating test environments and conducting thorough testing before applying updates in production is a risk mitigation strategy covered under cloud deployment and operations in the CompTIA Cloud+ certification.

## Question 11

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Question Type: MultipleChoice

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An administrator is setting up a cloud backup solution that requires the following features:

- \* Cost effective
- \* Granular recovery
- \* Multilocation

Which of the following backup types best meets these requirements?

Options:

- A- Off-site, full, incremental, and differential
- B- Cloud site, full, and differential
- C- On-site, full, and incremental
- D- On-site, full, and differential

Answer:

A

Explanation:

An off-site cloud backup solution that offers full, incremental, and differential backups would best meet the requirements of being cost-effective, allowing granular recovery, and supporting multi-location storage. This combination allows for comprehensive backup strategies that can be tailored to the company's needs while optimizing storage costs.

: Backup strategies, including full, incremental, and differential backups, are an integral part of data management and protection strategies discussed in the CompTIA Cloud+ objectives.

## Question 12

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Question Type: MultipleChoice

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An engineer wants to scale several cloud workloads on demand. Which of the following approaches is the most suitable?

Options:

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- A- Load
- B- Scheduled
- C- Manual
- D- Trending

Answer:

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A

Explanation:

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Load scaling is the most suitable approach for scaling several cloud workloads on demand. It automatically adjusts the number of active servers in a cloud environment based on the current load or traffic, ensuring that resources are efficiently utilized to meet demand without manual intervention. This approach helps maintain optimal performance and availability, particularly during unexpected surges in workload or traffic.

: Understanding cloud management and technical operations, including scaling strategies, is crucial for optimizing resource utilization and performance in cloud environments, as outlined in the CompTIA Cloud+ objectives.

## Question 13

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Question Type: MultipleChoice

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An administrator attempts to use a script to deploy a cloud-based virtual machine with five data disks. After running the script, the administrator sees the following message:

ERROR: Response 403, storage API provisioning error.

Which of the following is the reason the deployment failed?

Options:

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- A- Permission issues
- B- Partial outage
- C- Functionality deprecation
- D- Sizing issues

Answer:

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A

## Explanation:

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An HTTP 403 response indicates the request was forbidden---the caller authenticated but does not have sufficient authorization to perform the requested action. In CompTIA Cloud+ (CV0-004) objectives related to identity and access management, automation, and troubleshooting, API-based provisioning failures should be mapped to common HTTP response categories: 4xx errors generally indicate client-side issues such as malformed requests or insufficient permissions, while 5xx errors more often indicate service-side problems. Because the error explicitly shows "Response 403" during storage API provisioning, the script is attempting to create or attach storage resources (such as managed disks) without the required IAM/RBAC privileges (e.g., missing rights to create disks, write to a resource group/project, or attach storage to compute).

A partial outage (B) would more likely produce 5xx responses or provider status alerts, not a consistent 403. Functionality deprecation (C) commonly results in 410 Gone or explicit deprecation messages. Sizing issues (D) usually show quota/limit errors (often 429/LimitExceeded) or validation errors (400) describing unsupported disk counts or VM types. Therefore, permission issues is the best answer.



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