



# CV0-004<sup>Q&As</sup>

CompTIA Cloud+ (2024)

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### QUESTION 1

A cloud engineer needs to migrate an application from on premises to a public cloud. Due to timing constraints, the application cannot be changed prior to migration.

Which of the following migration strategies is best approach for this use case?

- A. Retire
- B. Rearchitect
- C. Refactor
- D. Rehost

Correct Answer: D

Rehosting, often referred to as "lift-and-shift," is the process of migrating an application or workload to the cloud without modifying it. This approach is suitable when there are timing constraints that prevent making changes to the application prior to migration. Rehosting can be the quickest migration strategy since it involves moving the existing applications to the cloud with minimal changes. References: CompTIA Cloud+ resources and cloud migration strategies

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### QUESTION 2

A security analyst confirms a zero-day vulnerability was exploited by hackers who gained access to confidential customer data and installed ransomware on the server. Which of the following steps should the security analyst take? (Select two).

- A. Contact the customers to inform them about the data breach.
- B. Contact the hackers to negotiate payment to unlock the server.
- C. Send a global communication to inform all impacted users.
- D. Inform the management and legal teams about the data breach
- E. Delete confidential data used on other servers that might be compromised.
- F. Modify the firewall rules to block the IP addresses and update the ports.

Correct Answer: AD

After a zero-day exploit resulting in a data breach and ransomware installation, it is critical to inform affected customers about the breach and the potential impact on their data. Additionally, the management and legal teams should be notified

to handle the situation in compliance with regulatory requirements and to coordinate an appropriate response.

References: Handling security incidents and communication strategies after a data breach are crucial elements of the governance and risk compliance domains in CompTIA Cloud+.

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### QUESTION 3

A company wants to move to a multicloud environment and utilize the technology that provides the most portability. Which of the following technology solutions would BEST meet the company's needs?

- A. Bootstrap
- B. Virtual machines
- C. Clusters
- D. Containers

Correct Answer: D

The technology that provides the most portability for a multicloud environment is containers. Containers are units of software that package an application and its dependencies into a standardized and isolated environment that can run on any platform or cloud service. Containers are lightweight, scalable, and portable, as they do not depend on the underlying infrastructure or operating system. Containers can also be managed by orchestration tools that automate the deployment, scaling, and networking of containerized applications across multiple clouds. Reference: [CompTIA Cloud+ Certification Exam Objectives], Domain 1.0 Configuration and Deployment, Objective 1.3 Given a scenario involving integration between multiple cloud environments, select an appropriate solution design.

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### QUESTION 4

A web-application company recently released some new marketing promotions without notifying the IT staff. The systems administrator has since been noticing twice the normal traffic consumption every two hours for the last three hours in the container environment.

Which of the following should the company implement to accommodate the new traffic?

- A. A firewall
- B. Switches
- C. Ballooning
- D. Autoscaling

Correct Answer: D

According to the CompTIA Cloud+ Study Guide<sup>1</sup>, autoscaling is "the ability to automatically increase or decrease the number of resources allocated to a cloud service based on the current demand". This means that autoscaling can help a

cloud environment adjust to changes in traffic and workload, such as the ones caused by the new marketing promotions.

Ballooning, on the other hand, is "a technique used by hypervisors to reclaim unused memory from a virtual machine and allocate it to another virtual machine that needs more memory". This means that ballooning can help optimize the

memory usage of a cloud environment, but it does not affect the number of resources allocated to a cloud service. A firewall is "a device or software that monitors and controls the incoming and outgoing network traffic based on predefined



rules". This means that a firewall can help protect a cloud environment from unauthorized access and malicious attacks, but it does not affect the number of resources allocated to a cloud service. Switches are "devices that connect multiple devices on a network and forward data packets between them". This means that switches can help improve the network performance and connectivity of a cloud environment, but they do not affect the number of resources allocated to a cloud

service.

Based on this information, I think the best answer to your question is D. Autoscaling. Autoscaling can help the company accommodate the new traffic by automatically increasing or decreasing the number of resources allocated to their web-

application service based on the current demand. This can also help reduce costs and improve performance and availability.

I hope this helps you understand the concept of autoscaling better. If you want to learn more about CompTIA Cloud+, you can check out some of these resources:

CompTIA Cloud+ : Cloud High Availability and Scaling: A video course that covers the topics of high availability and scaling in cloud environments, including autoscaling, horizontal scaling, vertical scaling and cloud bursting. Cloud+ (Plus)

Certification | CompTIA IT Certifications: The official website of CompTIA Cloud+, where you can find exam details, preparation materials, renewal information and more.

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## QUESTION 5

A cloud administrator has built a new private cloud environment and needs to monitor all computer, storage, and network components of the environment.

Which of the following protocols would be MOST useful for this task?

- A. SMTP
- B. SCP
- C. SNMP
- D. SFTP

Correct Answer: C

Simple Network Management Protocol (SNMP) is a protocol that enables monitoring and managing network devices and components in an IP network. SNMP can help monitor all computer, storage, and network components of a private cloud environment, as it can collect and report information about their status, performance, configuration, and events. SNMP can also help troubleshoot and optimize the private cloud environment, as it can detect and alert any issues or anomalies related to the network devices and components. References: CompTIA Cloud+ Certification Exam Objectives, page 15, section 2.8