



CV0-004^{Q&As}

CompTIA Cloud+

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**QUESTION 1**

An administrator received a report that company data has been compromised. The compromise occurred on a holiday, and no one in the organization was working. While reviewing the logs from the holiday, the administrator noted the following details:

Account	Access	Details
Cloud administrator	Granted	Log-in granted
Software developer	Granted	Log-in granted
Software developer	Denied	Denied access to human resources folder
Security engineer	Granted	Log-in granted
Security engineer	Denied	Denied access to personnel files
Human resources manager	Granted	Log-in granted
Human resources manager	Granted	Access granted to human resources folder

The most appropriate action for the cloud security analyst to recommend is using CIS- hardened images. These images are pre-configured by the Center for Internet Security to provide security benchmark standards that help in mitigating vulnerabilities in publicly available container images.

Which of the following accounts should the administrator disable to prevent a further breach?

- A. Cloud administrator
- B. Human resources manager
- C. Security engineer
- D. Software developer

Correct Answer: D

Based on the provided log details, the account of the Software Developer was used to gain unauthorized access. This account should be disabled to prevent further breaches, especially considering no one from the organization was working during the holiday, suggesting a compromised account. References: CompTIA Cloud+ Study Guide (V0-004) - Chapter on Cloud Security Posture

QUESTION 2

A cloud infrastructure administrator updated the IP tables to block incoming connections and outgoing responses to 104.225.110.203. Which of the following vulnerability management steps is this an example of?



- A. Scanning scope
- B. Remediation
- C. Identification
- D. Assessment

Correct Answer: B

Updating the IP tables to block connections to a specific IP address as a response to vulnerabilities is an example of remediation. Remediation involves taking direct action to fix vulnerabilities, such as by applying patches, changing configurations, or, in this case, updating firewall rules to block potentially harmful traffic. References: CompTIA Cloud+ resources and vulnerability management processes

QUESTION 3

Which of the following is used to deliver code quickly and efficiently across the development, test, and production environments?

- A. Snapshot
- B. Container image
- C. Serverless function
- D. VM template

Correct Answer: B

A container image is used to deliver code quickly and efficiently across the development, test, and production environments. Container images are lightweight, standalone, executable software packages that include everything needed to run a piece of software, including the code, runtime, system tools, libraries, and settings. References: CompTIA Cloud+ Study Guide (V0-004) - Chapter on Cloud Deployment Methods

QUESTION 4

A cloud administrator needs to reduce storage costs. Which of the following would best help the administrator reach that goal?

- A. Enabling compression
- B. Implementing deduplication
- C. Using containers
- D. Rightsizing the VMs

Correct Answer: B

Deduplication is a process by which redundant data is eliminated, thus reducing the size of the dataset. Deduplication with cloud storage reduces the storage requirements, along with the amount of data to be transferred over the network, resulting in faster and more efficient data protection operations¹. Deduplication can help to shrink the data footprint,



lower the storage costs, and improve the performance of backup and recovery processes². Deduplication can be applied at different levels, such as file-level, block-level, or byte-level, depending on the granularity and efficiency of the technique³. Deduplication can also be performed at different locations, such as source, target, or cloud, depending on the architecture and design of the storage system³. By implementing deduplication, a cloud administrator can achieve significant data savings and optimize the cloud storage costs⁴. References: Data deduplication techniques for efficient cloud storage management: a systematic review; How Data Deduplication Reduces Cloud Data Costs; How Data Deduplication Can Save Cloud Storage Costs?; Data Deduplication Overview; What is Data Deduplication and How Can it Help Reduce Cloud Costs?.

QUESTION 5

Which of the following cloud deployment strategies is best for an organization that wants to run open-source workloads with other organizations that are sharing the cost?

- A. Community
- B. Public
- C. Hybrid
- D. Private

Correct Answer: A

A community cloud deployment strategy is best for an organization that wants to run open-source workloads with other organizations while sharing the cost. Community clouds are collaborative efforts where infrastructure is shared between several organizations with common concerns, which could be regulatory, security, or compliance- related. References: The concept of community clouds is discussed in the domain of Cloud Concepts within the CompTIA Cloud+ exam objectives.

QUESTION 6

A systems administrator notices a surge of network traffic is coming from the monitoring server. The administrator discovers that large amounts of data are being downloaded to an external source. While investigating, the administrator reviews the following logs:

Protocol	Local address	Foreign address	State
TCP	10.181.12.5:20	172.17.250.12	ESTABLISHED
TCP	10.181.12.5:22	172.32.58.39	ESTABLISHED
TCP	10.181.12.5:443	172.30.252.204	ESTABLISHED
TCP	10.181.12.5:4443	10.11.15.82	ESTABLISHED
TCP	10.181.12.5:8048	172.24.255.192	TIME_WAIT

Which of the following ports has been compromised?



- A. Port 20
- B. Port 22
- C. Port 443
- D. Port 4443
- E. Port 8048

Correct Answer: E

Based on the logs provided, the port that has been compromised is Port 8048. The state "TIME_WAIT" indicates that this port was recently used to establish a connection that has now ended. This could be indicative of the recent activity where large amounts of data were downloaded to an external source, suggesting a potential security breach.

References: CompTIA Cloud+ Study Guide (V0-004) by Todd Montgomery and Stephen Olson

QUESTION 7

A cloud administrator wants to provision a host with two VMs. The VMs require the following: After configuring the servers, the administrator notices that during certain hours of the day, the performance heavily degrades. Which of the following is the best explanation?

	Host	VM1	VM2
NIC	1Gbps	1Gbps	1Gbps
CPU	4	1	1
RAM	8	2	2
Storage (thin provisioned)	2TB	1.5TB	1.2TB
Storage utilization		22.5%	50%
Daily network traffic		1.2TB	200GB

- A. The host requires additional physical CPUs.
- B. A higher number of processes occur at those times.
- C. The RAM on each VM is insufficient.
- D. The storage is overutilized.

Correct Answer: C

Given the provided table, the VMs have been allocated 2GB of RAM each, which may be insufficient for their workload, especially during peak hours which could lead to performance degradation. Insufficient RAM can cause the VMs to use



swap space on disk, which is significantly slower and can lead to poor performance.

References: CompTIA Cloud+ Certification Study Guide (V0-004) by Scott Wilson and Eric Vanderburg.

QUESTION 8

Which of the following is a field of computer science that enables computers to identify and understand objects and people in images and videos?

- A. Image reconstruction
- B. Facial recognition
- C. Natural language processing
- D. Computer vision

Correct Answer: D

Computer vision is a field of computer science that enables computers to identify and understand objects and people in images and videos. It involves the development of systems that can capture and interpret visual information from the world, similar to the way humans do.

References: The application of computer vision and its role in cloud services, particularly in relation to AI and machine learning capabilities, is discussed in CompTIA Cloud+.

QUESTION 9

A web consultancy group currently works in an isolated development environment. The group uses this environment for the creation of the final solution, but also for showcasing it to customers, before commissioning the sites in production. Recently, customers of newly commissioned sites have reported they are not receiving the final product shown by the group, and the website is performing in unexpected ways.

Which of the following additional environments should the group adopt and include in its process?

- A. Provide each web consultant a local environment on their device.
- B. Require each customer to have a blue-green environment.
- C. Leverage a staging environment that is tightly controlled for showcasing.
- D. Initiate a disaster recovery environment to fail to in the event of reported issues.

Correct Answer: C

A staging environment is a type of development environment that is used to test and demonstrate the final product before deploying it to the production environment. A staging environment can help the web consultancy group avoid the issues of delivering a different or faulty product to the customers, as it can ensure that the product is fully functional, compatible, and secure. A staging environment can also help the group showcase the product to the customers in a realistic and controlled way, as it can mimic the production environment and avoid any interference from other development activities. A staging environment can be leveraged by using cloud services that allow for easy provisioning, scaling, and deployment of web applications

**QUESTION 10**

A cloud engineer wants to implement a monitoring solution to detect cryptojacking and other cryptomining malware on cloud instances. Which of the following metrics would most likely be used to identify the activity?

- A. Disk I/O
- B. Network packets
- C. Average memory utilization
- D. Percent of CPU utilization

Correct Answer: D

To detect cryptojacking and other cryptomining malware on cloud instances, monitoring the percent of CPU utilization is most effective. Cryptomining malware typically consumes a significant amount of CPU resources for mining operations, leading to unusually high CPU usage. Monitoring and analyzing CPU utilization metrics can help identify instances of cryptojacking by highlighting abnormal levels of resource consumption. References: Understanding management and technical operations in cloud environments, as outlined in the CompTIA Cloud+ objectives, includes the use of monitoring solutions to detect and respond to security threats like cryptomining malware, ensuring the integrity and performance of cloud resources.

QUESTION 11

Given the following command:

```
Sdocker pull images.comptia.org/user1/myimage:latest
```

Which of the following correctly identifies images.comptia.org?

- A. Image registry
- B. Image creator
- C. Image version
- D. Image name

Correct Answer: A

In the Docker pull command given, images.comptia.org represents the image registry. A Docker image registry is a collection of repositories that host Docker images. It is where images are stored and organized, and from where they can be

pulled for deployment.

References: Docker and container management concepts, including image registries, are part of the cloud services understanding in the CompTIA Cloud+ curriculum.

QUESTION 12



A system surpasses 75% to 80% of resource consumption. Which of the following scaling approaches is the most appropriate?

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

Correct Answer: C

Load scaling is the most appropriate approach when a system surpasses 75% to 80% of resource consumption. This method involves adjusting resources dynamically in response to the current load, ensuring the system can handle increased demand without performance degradation. Load scaling can be automatic, allowing systems to scale up or down based on predefined metrics like CPU usage, memory, or network traffic, providing an efficient way to manage resources and maintain optimal performance. References: The CompTIA Cloud+ exam objectives include understanding cloud management and technical operations, which encompass knowledge of various scaling approaches, including load scaling, to ensure efficient resource utilization in cloud environments.

QUESTION 13

A technician receives an email from a vendor who is requesting payment of an invoice for human resources services. The email contains a request for bank account numbers. Which of the following types of attacks does this behavior most likely indicate?

- A. Malware
- B. Cryptojacking
- C. Ransomware
- D. Phishing

Correct Answer: D

The behavior described in the question indicates a phishing attack. Phishing typically involves an attacker masquerading as a legitimate entity to trick individuals into providing sensitive information, such as bank account numbers, through seemingly trustworthy communication channels like email. References: Understanding security concerns and measures is part of the Governance, Risk, Compliance, and Security domain of the CompTIA Cloud+ objectives.

QUESTION 14

An IT professional is selecting the appropriate cloud storage solution for an application that has the following requirements:

The owner of the objects should be the object writer. The storage system must enforce TLS encryption.

Which of the following should the IT professional configure?

- A. A bucket



B. A CIFS endpoint

C. A SAN

D. An NFS mount

Correct Answer: A

A bucket Comprehensive A bucket is a cloud storage solution that allows users to store and access objects, such as files, images, videos, etc. A bucket is typically associated with object storage services, such as Amazon S3, Google Cloud Storage, or Microsoft Azure Blob Storage¹²³. A bucket has the following characteristics that match the requirements of the application: The owner of the objects is the object writer. This means that the user who uploads or writes an object to the bucket becomes the owner of that object and can control its access permissions⁴⁵⁶. The storage system enforces TLS encryption. This means that the data in transit between the client and the bucket is encrypted using the Transport Layer Security (TLS) protocol, which provides security and privacy for the communication . A CIFS endpoint, a SAN, and an NFS mount are not cloud storage solutions, but rather network protocols or architectures that enable access to storage devices

QUESTION 15

A cloud engineer is exploring options to reduce the management overhead of the servers and network. Which of the following cloud service models should the engineer implement?

A. SaaS

B. XaaS

C. PaaS

D. IaaS

Correct Answer: C

Platform as a Service (PaaS) provides a platform allowing customers to develop, run, and manage applications without the complexity of building and maintaining the infrastructure typically associated with developing and launching an app.

Adopting PaaS can significantly reduce the management overhead of servers and networks.

References: CompTIA Cloud Essentials+ Certification Study Guide (LO-002) by Scott Wilson.

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