

CV0-004^{Q&As}

CompTIA Cloud+ (2024)

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QUESTION 1

The company's IDS has reported an anomaly. The cloud engineer remotely accesses the cloud instance, runs a command, and receives the following information:

```
UID  PID  PPID  CMD
0    987  1     sshd /usr/sbin/sshd -D [listener] 0 of 10-100
      startups
0    915  915   sshd: su seceng
0    45078 987   sshd: seceng [priv]
1000 45418 45078 sshd: seceng @pts/0
1000 45419 45418 -bash
1000 45440 45419 ps -elf
0    50596 1     /usr/sbin/apache2 -k start
65535 50597 50596 /usr/sbin/apache2 -k start
0    50612 50597 /var/www/command.py
```

Which of the following is the most likely root cause of this anomaly?

- A. Privilege escalation
- B. Leaked credentials
- C. Cryptojacking
- D. Defaced website

Correct Answer: A

The output from the `ps` command indicates there is a process running under the UID (User ID) of 0, which is the root user, and the command that was run is `/var/www/command.py`. Given that the normal Apache processes are running under their own UID (65535), this suggests that a command was executed with root privileges that typically should not have such high-level access. This is a strong indicator of privilege escalation, where an unauthorized user or process gains elevated access to resources that are normally protected from an application or user. References: CompTIA Cloud+ Certification Study Guide (V0-004) by Scott Wilson and Eric Vanderburg

QUESTION 2

A cloud solutions architect is designing a VM-based solution that requires reducing the cost as much as possible. Which of the following solutions will best satisfy this requirement?

- A. Using ephemeral storage on replicated VMs
- B. Creating Spot VMs in one availability zone
- C. Spreading the VMs across different regions

D. Using provisioned IOPS storage

Correct Answer: B

Using Spot VMs is a cost-effective solution as these are available at significantly reduced prices compared to standard instances. Spot VMs are ideal for workloads that can tolerate interruptions and are a way to take advantage of unused cloud capacity.

References: The concept of Spot VMs and their cost benefits are included in the financial aspects of managing cloud resources, as per the CompTIA Cloud+ certification guidelines.

QUESTION 3

A cloud administrator who is troubleshooting DNS issues discovers zone transfers are not occurring between the primary and secondary name servers due to an error in the serial numbers.

Which of the following records should the administrator query for the serial number?

A. PTR

B. TXT

C. SOA

D. SRV

Correct Answer: C

SOA stands for Start of Authority, and it is a type of DNS record that contains information about a DNS zone, such as the name of the primary name server, the email address of the zone administrator, the serial number of the zone, and other parameters. The serial number is used to indicate when a zone has been updated, and it is incremented by the primary name server whenever a change is made to the zone data. The secondary name servers use the serial number to determine if they need to request a zone transfer from the primary name server to synchronize their data.

References: [CompTIA Cloud+ Study Guide], page 207.

QUESTION 4

An organization wants to ensure its data is protected in the event of a natural disaster. To support this effort, the company has rented a colocation space in another part of the country. Which of the following disaster recovery practices can be used to best protect the data?

A. On-site

B. Replication

C. Retention

D. Off-site

Correct Answer: D

For an organization looking to protect its data in the event of a natural disaster, the best disaster recovery practice

would be off-site replication. By renting a colocation space in another part of the country, the company can maintain copies of their data and critical systems in a geographically separate location, ensuring they are not affected by the same disaster. References: CompTIA Cloud+ Study Guide (V0-004) - Chapter on Disaster Recovery

QUESTION 5

A cloud engineer is collecting web server application logs to troubleshoot intermittent issues. However, the logs are piling up and causing storage issues.

Which of the following log mechanisms should the cloud engineer implement to address this issue?

- A. Splicing
- B. Rotation
- C. Sampling
- D. Inspection

Correct Answer: B

Log rotation is the mechanism the cloud engineer should implement to address the issue of logs piling up and causing storage issues. Log rotation involves automatically archiving old log files and creating new ones after a certain size or time period, preventing storage issues. References: CompTIA Cloud+ Study Guide (V0-004) - Chapter on Cloud Monitoring and Management

QUESTION 6

A cloud administrator shortens the amount of time a backup runs. An executive in the company requires a guarantee that the backups can be restored with no data loss.

Which of the following backup features should the administrator test for?

- A. Encryption
- B. Retention
- C. Schedule
- D. Integrity

Correct Answer: D

To guarantee that backups can be restored with no data loss, the administrator should test for data integrity. This ensures that the data has not been altered during the backup process and that it can be restored to its original state. References: Backup integrity is a critical aspect of data management and protection, which falls under the best practices for backups and restoration in the CompTIA Cloud+ curriculum.

QUESTION 7

An organization's critical data was exfiltrated from a computer system in a cyberattack. A cloud analyst wants to

identify the root cause and is reviewing the following security logs of a software web application:

```
"2021/12/18 09:33:12" "10. 34. 32.18" "104. 224. 123. 119" "POST / login.php?u=administratorandp=or%201%20=1"
```

```
"2021/12/18 09:33:13" "10.34. 32.18" "104. 224. 123.119" "POST /login.php?u=administratorandp=%27%0A"
```

```
"2021/12/18 09:33:14" "10. 34. 32.18" "104. 224. 123. 119" "POST /login.php?u=administratorandp=%26"
```

```
"2021/12/18 09:33:17" "10.34. 32.18" "104. 224. 123.119" "POST / login.php?u=administratorandp=%3B"
```

```
"2021/12/18 09:33:12" "10.34. 32. 18" "104. 224. 123. 119" "POST / login.php?u=adminandp=or%201%20=1"
```

```
"2021/12/18 09:33:19" "10.34.32.18" "104. 224. 123.119" "POST / login.php?u=adminandp=%27%0A"
```

```
"2021/12/18 09:33:21" "10. 34. 32.18" "104.224. 123.119" "POST / login.php?u=adminandp=%26"
```

```
"2021/12/18 09:33:23" "10. 34. 32.18" "104. 224. 123.119" "POST / login.php?u=adminandp=%3B"
```

Which of the following types of attacks occurred?

- A. SQL injection
- B. Cross-site scripting
- C. Reuse of leaked credentials
- D. Privilege escalation

Correct Answer: A

The security logs of the software web application show patterns that are typical of an SQL injection attack. This is evidenced by the inclusion of SQL syntax in the user input fields in an attempt to manipulate the database. References: CompTIA Cloud+ Study Guide (V0-004) - Chapter on Cloud Security Threats

QUESTION 8

A cloud engineer is reviewing a disaster recovery plan that includes the following requirements:

1.

System state, files, and configurations must be backed up on a weekly basis.

2.

The system state, file, and configuration backups must be tested annually.

Which of the following backup methods should the engineer implement for the first week the plan is executed?

- A. Differential
- B. Incremental
- C. Snapshot
- D. Full

Correct Answer: D

A full backup method should be implemented for the first week the disaster recovery plan is executed. This will ensure that a complete copy of the system state, files, and configurations are backed up. Subsequent backups can be differential or incremental as per the plan. References: Backup methodologies, including the importance of full backups, are part of the data management strategies in cloud computing covered in the CompTIA Cloud+ certification.

QUESTION 9

Which of the following technologies should be used by a person who is visually impaired to access data from the cloud?

- A. Object character recognition
- B. Text-to-voice
- C. Sentiment analysis
- D. Visual recognition

Correct Answer: B

Text-to-voice (or text-to-speech) technology should be used by a person who is visually impaired to access data from the cloud. It converts text data into audible speech, allowing visually impaired individuals to receive the information audibly. References: CompTIA Accessibility in IT Study Guide.

QUESTION 10

A developer is deploying a new version of a containerized application. The DevOps team wants:

1.
No disruption
2.
No performance degradation
3.
Cost-effective deployment
4.
Minimal deployment time

Which of the following is the best deployment strategy given the requirements?

- A. Canary
- B. In-place
- C. Blue-green

D. Rolling

Correct Answer: C

The blue-green deployment strategy is the best given the requirements for no disruption, no performance degradation, cost-effective deployment, and minimal deployment time. It involves maintaining two identical production environments (blue and green), where one hosts the current application version and the other is used to deploy the new version. Once testing on the green environment is complete, traffic is switched from blue to green, ensuring a seamless transition with no downtime. References: Understanding various cloud deployment strategies, such as blue-green deployments, is essential for managing cloud environments effectively, as highlighted in the CompTIA Cloud+ objectives, to ensure smooth and efficient application updates.

QUESTION 11

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?

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

Correct Answer: A

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 (V0-004) by Scott Wilson and Eric Vanderburg

QUESTION 12

A cloud engineer wants containers to run the latest version of a container base image to reduce the number of vulnerabilities. The applications in use require Python 3.10 and are not compatible with any other version. The containers' images are created every time a new version is released from the source image. Given the container Dockerfile below: Which of the following actions will achieve the objectives with the least effort?

```
FROM cgr.dev/chainguard/python:3.10
WORKDIR /myapp
COPY main.py ./
ENTRYPOINT ["python", "/myapp/main.py"]
```

- A. Perform docker pull before executing docker run.
- B. Execute docker update using a local cron to get the latest container version.
- C. Change the image to use python:latest on the image build process.
- D. Update the Dockerfile to pin the source image version.

Correct Answer: A

Performing a "docker pull" before executing "docker run" ensures that the latest version of the container base image is used, aligning with the objective of reducing vulnerabilities. This command fetches the latest image version from the repository, ensuring that the container runs the most up-to-date and secure version of the base image. This approach is efficient and requires minimal effort, as it automates the process of maintaining the latest image versions for container deployments. References: Within the CompTIA Cloud+ examination scope, understanding management and technical operations in cloud environments, including container management and security, is critical. This includes best practices for maintaining up-to-date container images to minimize vulnerabilities.

QUESTION 13

A log-parsing application requires significant processing power to ingest the logs streaming from web servers. The engineering team presents the cloud architect with four proposals using the same underlying hardware.

Which of the following should the cloud architect select in order to minimize the impact of an instance failure while keeping the cost as low as possible?

- A. Four instances of 4vCPU, 8GB RAM, 80GB SSD
- B. Four instances of 4vCPU, 8GB RAM, 80GB HDD
- C. Two instances of 8vCPU, 16GB RAM, 80GB SSD
- D. Two instances of 8vCPU, 16GB RAM, 80GB HDD

Correct Answer: A

Choosing four instances with the given specifications would distribute the load and reduce the impact of any single instance failure. Using SSDs over HDDs would provide faster data processing capabilities which is crucial for a log-parsing

application. This setup also retains cost efficiency by not over-provisioning resources.

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

QUESTION 14

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 of the following is the best way to identify the root cause?

- A. Rebooting the engineering VM
- B. Reviewing the administrator's permissions to access the engineering VM
- C. Allowing connections from 0.0.0.0/0 to the engineering VM
- D. Performing a packet capture on the engineering VM

Correct Answer: B

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. References: 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 15

An organization is developing a new solution for hosting an external website. The systems administrator needs the ability to manage the OS. Which of the following methods would be MOST suitable to achieve this objective?

- A. Deploy web servers into an IaaS provider.
- B. Implement a cloud-based VDI solution.
- C. Provision web servers in a container environment.
- D. Use PaaS components in the cloud to implement the product.

Correct Answer: A

Deploying web servers into an IaaS (Infrastructure as a Service) provider is the most suitable method to achieve the objective of hosting an external website and managing the OS. IaaS is a cloud service model that provides basic computing resources such as servers, storage, network, etc., to the customers. The customers have full control and flexibility over these resources and can install and configure any software they need on them. IaaS is suitable for hosting web servers and managing the OS, as it allows the customers to choose their preferred OS, web server software, settings, etc., and customize them according to their needs.

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