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QUESTION 1

A web server has been deployed in a public IaaS provider and has been assigned the public IP address of 72.135.10.100. Users are now reporting that when they browse to the website, they receive a message indicating the service is unavailable. The cloud administrator logs into the server, runs a netstat command, and notices the following relevant output:

```
TCP 17.3.130.3:0 72.135.10.100:5500 TIME_WAIT
TCP 17.3.130.3:0 72.135.10.100:5501 TIME_WAIT
TCP 17.3.130.3:0 72.135.10.100:5502 TIME_WAIT
TCP 17.3.130.3:0 72.135.10.100:5503 TIME_WAIT
TCP 17.3.130.3:0 72.135.10.100:5504 TIME_WAIT
```

Which of the following actions should the cloud administrator take to resolve the issue?

- A. Assign a new IP address of 192.168.100.10 to the web server
- B. Modify the firewall on 72.135.10.100 to allow only UDP
- C. Configure the WAF to filter requests from 17.3.130.3
- D. Update the gateway on the web server to use 72.135.10.1

Correct Answer: D

Updating the gateway on the web server to use 72.135.10.1 is the best action to take to resolve the issue of the web server being unavailable after being deployed in a public IaaS provider and assigned the public IP address of 72.135.10.100. Updating the gateway can ensure that the web server can communicate with the Internet and other networks by using the correct router or device that connects the web server's network to other networks. Updating the gateway can also improve performance and reliability, as it can avoid any routing errors or conflicts that may prevent the web server from responding to remote login requests. References: CompTIA Cloud+ Certification Exam Objectives, page 15, section 2.8

QUESTION 2

A systems administrator is informed that a database server containing PHI and PII is unencrypted. The environment does not support VM encryption, nor does it have a key management system. The server needs to be able to be rebooted for patching without manual intervention.

Which of the following will BEST resolve this issue?

- A. Ensure all database queries are encrypted
- B. Create an IPsec tunnel between the database server and its clients
- C. Enable protocol encryption between the storage and the hypervisor
- D. Enable volume encryption on the storage
- E. Enable OS encryption



Correct Answer: D

Volume encryption is a type of encryption that protects data at the storage level by encrypting an entire disk or partition. Volume encryption can provide strong security for data at rest, as it prevents unauthorized access to the data even if the storage device is lost, stolen, or compromised. Volume encryption can also support automatic booting without manual intervention, as it can use a pre-boot authentication mechanism that does not require user input. Enabling volume encryption on the storage is the best way to resolve the issue of having an unencrypted database server containing PHI and PII, as it can protect the sensitive data without relying on VM encryption or a key management system. References: CompTIA Cloud+ Certification Exam Objectives, page 14, section 2.7

QUESTION 3

An SQL injection vulnerability was reported on a web application, and the cloud platform team needs to mitigate the vulnerability while it is corrected by the development team.

Which of the following controls will BEST mitigate the risk of exploitation?

- A. DLP
- B. HIDS
- C. NAC
- D. WAF

Correct Answer: D

A web application firewall (WAF) is a type of network security device or software that monitors and filters HTTP traffic between a web application and the Internet. A WAF can help mitigate the risk of exploitation of an SQL injection vulnerability reported on a web application while it is corrected by the development team, as it can detect and block any malicious requests or queries that attempt to inject SQL commands into the web application's database. A WAF can also help protect the web application from other common web-based attacks, such as cross-site scripting (XSS), remote file inclusion (RFI), or denial-of-service (DoS). References: CompTIA Cloud+ Certification Exam Objectives, page 14, section

2.7

QUESTION 4

To save on licensing costs, the on-premises, IaaS-hosted databases need to be migrated to a public DBaaS solution. Which of the following would be the BEST technique?

- A. Live migration
- B. Physical-to-virtual
- C. Storage-level mirroring
- D. Database replication

Correct Answer: D

Database replication is the best technique to migrate databases from an on-premises IaaS-hosted environment to a



public DBaaS solution. Database replication is a process of copying data from one database server to another database server in real-time or near real-time. Database replication can ensure data consistency and availability across different locations and platforms. Database replication can facilitate migration by synchronizing data between on-premises databases and cloud databases.

QUESTION 5

A company just successfully completed a DR test and is ready to shut down its DR site and resume normal operations.

Which of the following actions should the cloud administrator take FIRST?

- A. Initiate a failover
- B. Restore backups
- C. Configure the network
- D. Perform a failback

Correct Answer: D

A failback is a process of restoring or returning a system or service to its original state or location after a failure or disaster recovery event. Performing a failback is the first action that a cloud administrator should take after successfully completing a DR test and being ready to shut down its DR site and resume normal operations, as it can ensure that all data and configurations are synchronized and consistent between the primary site and the DR site before switching back to the primary site. Performing a failback can also help minimize downtime or disruption, as it can verify that all systems or services are functioning properly before resuming normal operations. References: CompTIA Cloud+ Certification Exam Objectives, page 10, section 1.5

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