CV0-004^{Q&As}

CompTIA Cloud+ (2024)

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QUESTION 1

An organization\\\'s internal security team mandated that public cloud resources must be accessible only by a corporate VPN and not by direct public internet access.

Which of the following would achieve this objective?

A. WAF

B. ACL

C. VPC

D. SSH

Correct Answer: C

A Virtual Private Cloud (VPC) allows users to create a secluded section of the public cloud where resources can be launched in a defined virtual network. This enables an organization to have a section of the cloud that is secured and isolated from the public internet, thus, access to public cloud resources can be restricted to only a corporate VPN. References: CompTIA Cloud+ Study Guide (V0-004) - Chapter on Cloud Security

QUESTION 2

A cloud solutions architect needs to design a solution that will collect a report and upload it to an object storage service every time a virtual machine is gracefully or non-gracefully stopped. Which of the following will best satisfy this requirement?

A. An event-driven architecture that will send a message when the VM shuts down to a log- collecting function that extracts and uploads the log directly from the storage volume

B. Creating a webhook that will trigger on VM shutdown API calls and upload the requested files from the volume attached to the VM into the object-defined storage service

C. An API of the object-defined storage service that will scrape the stopped VM disk and self-upload the required files as objects

D. A script embedded on the stopping VM\\\'s OS that will upload the logs on system shutdown

Correct Answer: A

An event-driven architecture is suited for this scenario, where an event (like a VM shutdown) triggers a function to execute specific tasks (log collection and upload). This approach is efficient and ensures that the logs are collected and uploaded to an object storage service every time the VM is stopped, regardless of whether it is a graceful or non-graceful shutdown. References: CompTIA Cloud+ Study Guide (V0-004) - Chapter on Cloud Delivery Implementations

QUESTION 3

A systems administrator is planning to deploy a database cluster in a virtualization environment. The administrator needs to ensure the database nodes do not exist on the same physical host.

Which of the following would best meet this requirement?

A. Oversubscription

B. Anti-affinity

C. A firewall

D. A separate cluster

Correct Answer: B

Anti-affinity is a rule that specifies that certain virtual machines should not run on the same physical host. This can help to improve availability and performance by avoiding single points of failure and resource contention. For example, if the

database nodes are running on the same host and the host fails, the entire database cluster will be unavailable. By using anti-affinity rules, the systems administrator can ensure the database nodes are distributed across different hosts in the

virtualization environment. References:

CompTIA Cloud+ CV0-003 Study Guide, Chapter 2: Deploying a Cloud Environment, page 76.

QUESTION 4

A cloud solutions architect has received guidance to migrate an application from on premises to a public cloud. Which of the following requirements will help predict the operational expenditures in the cloud?

A. Average resource consumption

B. Maximum resource consumption

C. Minimum resource consumption

D. Actual hardware configuration

Correct Answer: A

Understanding the average resource consumption of the application is essential for estimating the cost of running it in the cloud. By analyzing historical data or using monitoring tools, you can determine the average amount of CPU, memory, storage, and network resources the application uses over time. This data is crucial for selecting the right cloud instance types, storage options, and network configurations to meet performance requirements while optimizing costs.

QUESTION 5

A company has deployed a new cloud solution and is required to meet security compliance.

Which of the following will MOST likely be executed in the cloud solution to meet security requirements?

A. Performance testing

B. Regression testing

C. Vulnerability testing

D. Usability testing

Correct Answer: C

Vulnerability testing is a type of security testing that identifies and evaluates the weaknesses or flaws in a system or service that could be exploited by attackers. Vulnerability testing can help meet security compliance requirements when deploying a new cloud solution, as it can reveal any potential security risks or gaps in the cloud environment and provide recommendations for remediation or mitigation. Vulnerability testing can also help improve security posture and performance, as it can prevent or reduce the impact of cyberattacks, data breaches, or service disruptions. References: CompTIA Cloud+ Certification Exam Objectives, page 14, section 2.7

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