Vendor: CompTIA

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Exam Name: CompTIA Cloud+ (2024)

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QUESTION 1

A cloud administrator is upgrading a cloud environment and needs to update the automation script to use a new feature from the cloud provider. After executing the script, the deployment fails. Which of the following is the MOST likely cause?

A. API incompatibility

B. Location changes

C. Account permissions

D. Network failure

Correct Answer: A

API incompatibility is the most likely cause of the failure of an automation script to use a new feature from the cloud provider. API (Application Programming Interface) is a set of rules or specifications that defines how different software components or systems can communicate and interact with each other. API incompatibility is a situation where an API does not work or function properly with another software component or system due to differences or changes in versions, formats, parameters, etc. API incompatibility can cause errors or issues when using an automation script to deploy or configure cloud resources or services, especially if the script is not updated or modified according to the new API specifications.

QUESTION 2

A systems administrator is writing a script for provisioning nodes in the environment. Which of the following would be BEST for the administrator to use to provision the authentication credentials to the script?

A. password=\\'curl https://10.2.3.4/api/sytemops?op=provision\\'

B. password=$env_password

C. password=$(cat /opt/app/credentials)

D. password="MyS3cretP4sswordIsVeryL0ng"

Correct Answer: B

QUESTION 3

Which of the following industry standards mentions that credit card data must not be exchanged or stored in cleartext?

A. CSA

B. GDPR

C. SOC2

D. PCI-DSS

Correct Answer: D

The Payment Card Industry Data Security Standard (PCI-DSS) is the industry standard that mandates that credit card data must not be stored or transmitted in cleartext. It includes requirements for encryption, access control, and other security measures to protect cardholder data. References: Official PCI Security Standards Council Site.

QUESTION 4

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 5

A company needs to deploy its own code directly in the cloud without provisioning additional infrastructure. Which of the following is the best cloud service model for the company to use?

A. PaaS

B. SaaS

C. IaaS

D. XaaS

Correct Answer: A

Platform as a Service (PaaS) is the best cloud service model for deploying code directly in the cloud without provisioning additional infrastructure. PaaS provides a platform allowing customers to develop, run, and manage applications without the complexity of building and maintaining the infrastructure.References: The PaaS model and its

benefits for application deployment are covered under the Cloud Concepts domain in the CompTIA Cloud+ certification.

QUESTION 6

Which of the following migration types is best to use when migrating a highly available application, which is normally hosted on a local VM cluster, for usage with an external user population?

A. Cloud to on-premises

B. Cloud to cloud

C. On-premises to cloud

D. On-premises to on-premises

Correct Answer: C

When migrating a highly available application normally hosted on a local VM cluster for usage with an external user population, the best migration type would be on- premises to cloud. This allows the application to leverage the cloud\\'s scalability and reach, providing better access to the external users. References: CompTIA Cloud+ Study Guide (V0-004) - Chapter on Cloud Migration

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QUESTION 7

A security team recently hired multiple interns who all need the same level of access. Which of the following controls should the security team implement to provide access to the cloud environment with the least amount of overhead?

A. MFA

B. Discretionary access

C. Local user access

D. Group-based access control

Correct Answer: D

Implementing group-based access control is the most efficient way to provide access to multiple interns who require the same level of access. This method allows the security team to assign permissions to a group rather than to individual user accounts, thereby reducing the administrative overhead involved in managing access rights for each intern individually. References: CompTIA Cloud+ Certification Study Guide (V0- 004) by Scott Wilson and Eric Vanderburg

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QUESTION 8

A list of CVEs was identified on a web server. The systems administrator decides to close the ports and disable weak TLS ciphers. Which of the following describes this vulnerability management stage?

A. Scanning

B. Identification

C. Assessment

D. Remediation

Correct Answer: D

Closing the ports and disabling weak TLS ciphers as a response to a list of identified CVEs (Common Vulnerabilities and Exposures) describes the vulnerability management stage of \'remediation\'. This stage involves taking actions to resolve vulnerabilities and mitigate potential risks.References: Vulnerability management stages, including remediation efforts, are a key aspect of the security measures discussed in CompTIA Cloud+.

QUESTION 9

A company\'s engineering department is conducting a month-long test on the scalability of an in-house-developed software that requires a cluster of 100 or more servers. Which of the following models is the best to use?

A. PaaS

B. SaaS

C. DBaaS

D. IaaS

Correct Answer: D

For testing the scalability of an in-house-developed software that requires a cluster of 100 or more servers, Infrastructure as a Service (IaaS) is the best model. IaaS provides the necessary computeresources and allows the engineering department to configure the environment as needed for their specific test without the constraints that might be present in PaaS or SaaS offerings. References: CompTIA Cloud+ Study Guide (V0-004) - Chapter on Cloud Service Models

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QUESTION 10

Which of the following describes what CRUD is typically used for?

A. Relational databases

B. Time series databases

C. Graph databases

D. NoSQL databases

Correct Answer: A

CRUD stands for Create, Read, Update, Delete, and it is most commonly used for interacting with relational databases. These operations form the basis of persistent storage manipulation in most applications that use a database to store

data.

References:CompTIA Cloud+ Guide to Cloud Computing (ISBN: 978-1-64274-282-2)

QUESTION 11

A DevOps engineer is performing maintenance on the mail servers for a company\\'s web application. Part of this maintenance includes checking core operating system updates. The servers are currently running version 3.2 of the operating system. The engineer has two update options--one to version 4.1 and the other to version 3.7. Both versions are fully supported by the operating system manufacturer.

Which of the following best describes the action the engineer should take?

A. Upgrade to 3.7 in the development environment.

B. Upgrade to 4.1 on one production server at a time.

C. Read the release notes on version 4.1.

D. Schedule a maintenance window and upgrade to 3.7 in the production environment.

Correct Answer: A

Before making any updates to the production environment, the best course of action is to perform the update in a development or testing environment. Upgrading to version 3.7, which is a minor update, is generally less risky and should be

tested first to ensure compatibility and stability before considering the major update to version 4.1.

References: The process of updating and maintaining servers, including the validation of updates in a non-production environment, is part of the technical operations management covered in CompTIA Cloud+.

QUESTION 12

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