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CompTIA Cloud Essentials+

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QUESTION 1

A company wants to save on cloud storage costs for data that does not need to be accessible in a timely manner. Which of the following storage types would be the BEST option?

A. Cold

B. Block

C. Object

D. Tape

Correct Answer: A

Explanation: Cold storage is a type of cloud storage that is designed for data that does not need to be accessible in a timely manner, such as backup, archive, or historical data. Cold storage offers the lowest cost per gigabyte of storage, but also the highest cost and latency for data retrieval. Cold storage is suitable for data that is rarely accessed, has low performance requirements, and can tolerate delays of hours or days. Cold storage can help a company save on cloud storage costs by reducing the use of more expensive storage tiers, such as hot, warm, or cool storage. Cold storage can also provide high durability, security, and scalability for long-term data retention. Cold storage is different from other storage types, such as block, object, or tape. Block storage is a type of cloud storage that stores data in fixed-sized blocks that are attached to a virtual machine as a disk volume. Block storage provides high performance and low latency for data that needs frequent and random access, such as databases, operating systems, or applications. Object storage is a type of cloud storage that stores data as objects that consist of data, metadata, and a unique identifier. Object storage provides high scalability and durability for data that needs simple and direct access, such as files, images, videos, or documents. Tape storage is a type of physical storage that stores data on magnetic tapes that are stored in tape libraries or vaults. Tape storage provides low cost and high capacity for data that needs offline or long-term backup, but also has high retrieval time and risk of data loss or degradation. References: What Is Cold Data Storage? Storing Cold Data in the Cloud, Amazon S3 Glacier Storage Classes | AWS, The Complete Guide to Cold Data Storage - NetApp, Hot Storage vs Cold Storage in 2023: Instant Access vs Archiving, How cold storage is redefining the new data era

QUESTION 2

Which of the following activities in a cloud environment requires a defined scope and formal authorization from the CSP?

A. Orchestration

B. Penetration testing

C. Sandboxing

D. Vulnerability scanning

Correct Answer: B

Explanation: Penetration testing, also known as ethical hacking, is a security assessment methodology that involves simulating a cyberattack on a cloud-based system or service to identify and exploit vulnerabilities and weaknesses.

Penetration testing can help to evaluate the security posture of a cloud environment and provide recommendations for improvement12

Penetration testing in a cloud environment requires a defined scope and formal authorization from the cloud service provider (CSP), because it can have significant impacts on the cloud infrastructure, applications, and data. Penetration

testing can potentially cause damage, disruption, or breach of the cloud resources, as well as violate the terms of service or the service level agreements of the CSP. Therefore, before conducting penetration testing in a cloud environment,

the customer must obtain the consent and approval of the CSP, and follow the guidelines and policies of the CSP regarding the scope, duration, frequency, and methods of the testing3 Orchestration, sandboxing, and vulnerability scanning

are not activities that require a defined scope and formal authorization from the CSP, because they are less intrusive and disruptive than penetration testing. Orchestration is the process of automating and coordinating the deployment and

management of cloud resources using tools and scripts. Sandboxing is the process of creating and isolating a testing environment within the cloud to experiment with new features or applications without affecting the production environment.

Vulnerability scanning is the process of detecting and reporting the known vulnerabilities and misconfigurations in the cloud resources using automated tools. These activities can help to improve the efficiency, flexibility, and security of the

cloud environment, but they do not involve actively exploiting or compromising the cloud resources. Therefore, they do not require the same level of permission and oversight from the CSP as penetration testing.

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QUESTION 3

Which of the following technologies allows a social media application to authenticate access to resources that are available in the cloud?

A. Microservices

B. LDAP

C. Federation

D. MFA

Correct Answer: C

Explanation: Federation is a technology that allows a social media application to authenticate access to resources that are available in the cloud. Federation enables users to sign in to a cloud service using their existing credentials from another identity provider, such as Facebook, Google, or Microsoft. This way, users do not need to create a separate

account or password for the cloud service, and the cloud service does not need to store or manage user identities. Federation also simplifies access management, as the identity provider can control which users and groups are allowed to access the cloud service. Federation is based on standards such as OAuth, OpenID Connect, and SAML, which define how identity providers and cloud services can exchange authentication and authorization information. References: CompTIA Cloud Essentials+ CLO-002 Study Guide, Chapter 3: Cloud Service Operations, Section 3.4: Identity and Access Management, Page 113.

QUESTION 4

Which of the following can be set up to inform the consumer of rising performance thresholds?

A. Alerts

B. Audit

C. Logging

D. Scanning

Correct Answer: D

Explanation: According to the CompTIA Cloud Essentials objectives and documents, sandboxing is the best option for the DevOps team that wants to document the upgrade steps for its public database solution. Sandboxing is a technique that creates a virtual environment that is isolated from the production systems and allows the team to replicate multiple installations without affecting the real data or applications. Sandboxing is useful for testing, debugging, and experimenting with new features or configurations in a safe and controlled way. Sandboxing can also help the team to identify and resolve any potential issues or errors before deploying the upgrade to the production environment. The other options are not as suitable for the team\\'s needs. Containerization is a method of packaging software code with the necessary dependencies and libraries to run it on any platform or cloud. Containerization is beneficial for creating portable and scalable applications that can run consistently across different environments. However, containerization does not provide a dedicated virtual environment that is separate from the production systems, nor does it allow the team to replicate multiple installations of the same software. Cold storage is a type of data storage that is used for infrequently accessed or archived data. Cold storage is typically cheaper and slower than hot storage, which is used for frequently accessed or active data. Cold storage is not relevant for the team\\'s need to document the upgrade steps for its public database solution, as it does not involve data storage or access. Infrastructure as code is a practice of managing and provisioning cloud infrastructure using code or scripts, rather than manual processes or graphical user interfaces. Infrastructure as code is advantageous for automating and standardizing the deployment and configuration of cloud resources, such as servers, networks, or storage. However, infrastructure as code does not provide a dedicated virtual environment that is separate from the production systems, nor does it allow the team to replicate multiple installations of the same software. References: 1, 2, 3, 4

QUESTION 5

A startup company wants to develop a new voice assistant that leverages technology that can improve its product based on end user input. Which of the following would MOST likely accomplish this goal?

A. Big Data

B. Blockchain

C. VDI

D. Machine learning

Correct Answer: D

Explanation: Machine learning is a technology that enables a voice assistant to improve its product based on end user input. Machine learning is a branch of artificial intelligence that allows systems to learn from data and experience, without being explicitly programmed. Machine learning can help a voice assistant to understand natural language, recognize speech, generate responses, and adapt to user feedback. Machine learning can also help a voice assistant to personalize its service, by learning the preferences, habits, and needs of each user. Machine learning can make a voice assistant more intelligent, accurate, and user-friendly over time. References: CompTIA Cloud Essentials+ CLO-002 Study Guide, Chapter 2: Cloud Concepts, Section 2.2: Cloud Technologies, Page 55.

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