

CLO-002^{Q&As}

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QUESTION 1

A cloud service provider is marketing its new PaaS offering to potential clients. Which of the following companies would MOST likely be interested?

- A. A company specializing in application development
- B. A company with many legacy applications
- C. A company with proprietary systems
- D. A company that outsources support of its IT systems

Correct Answer: A

QUESTION 2

A developer is leveraging a public cloud service provider to provision servers using the templates created by the company's cloud engineer.

Which of the following does this BEST describe?

- A. Subscription services
- B. Containerization
- C. User self-service
- D. Autonomous environments

Correct Answer: C

Explanation: User self-service is a cloud computing feature that allows users to provision, manage, and terminate cloud resources on demand, without the need for human intervention or approval. User self-service enables users to access cloud services through an online control panel, a web portal, or an API. User self-service can improve the agility, efficiency, and scalability of cloud computing, as users can quickly and easily obtain the resources they need, when they need them, and pay only for what they use. User self-service can also reduce the workload and costs of the cloud service provider, as they do not have to manually process requests or allocate resources. In this scenario, a developer is leveraging a public cloud service provider to provision servers using the templates created by the company's cloud engineer. This means that the developer can access the cloud provider's web portal or API, select the desired template, and launch the server instance without waiting for approval or assistance from the cloud provider or the cloud engineer. This is an example of user self-service, as the developer can self-manage the cloud resources according to their needs. References:

1: What is On-Demand Self Service? - Definition from Techopedia

2: What is Self-Service Provisioning in Cloud? | CloudBolt Software CompTIA Cloud Essentials+ Certification Study Guide, Second Edition (LO-002), Chapter 2: The Business Side of Cloud Computing, Section 2.1: Cloud Service Models3

QUESTION 3

An IT company is planning to migrate its current infrastructure to the cloud due to support no longer being available and dependence on some legacy databases. Which of the following would be the BEST migration approach?

- A. Rip and replace
- B. Phased
- C. Hybrid
- D. Lift and shift

Correct Answer: D

Explanation: Lift and shift is a cloud migration approach that involves moving applications to the cloud as-is, without making any major changes to the application code or architecture. This approach is suitable for legacy applications that depend on specific databases or platforms that are no longer supported or available on-premise. Lift and shift can help reduce the cost and complexity of migration, while preserving the functionality and performance of the applications. However, lift and shift may not take full advantage of the cloud features and benefits, such as scalability, elasticity, and automation. Therefore, some applications may require further optimization or refactoring after the initial migration.

QUESTION 4

Which of the following cloud principles will help manage the risk of a network breach?

- A. Shared responsibility
- B. Self-service
- C. Availability
- D. Elasticity

Correct Answer: A

Explanation: Shared responsibility is the cloud principle that states that the security and compliance of the cloud service are shared between the cloud service provider and the cloud customer. The cloud service provider is responsible for securing the cloud infrastructure, such as the hardware, software, networking, and facilities, while the cloud customer is responsible for securing the cloud data, applications, and access, such as the encryption, backup, authentication, and authorization. By following the shared responsibility principle, the cloud customer can manage the risk of a network breach by implementing appropriate security measures and controls on their end, such as firewalls, antivirus, VPNs, and IAM. The cloud customer can also leverage the security features and services offered by the cloud service provider, such as encryption, monitoring, auditing, and incident response. References: CompTIA Cloud Essentials+ CLO-002 Certification Study Guide, Chapter 5: Managing Cloud Security, Section 5.1: Understanding Cloud Security Concepts, Page 1611

QUESTION 5

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

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