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QUESTION 1

A company is migrating its e-commerce platform to a cloud service provider. The e-commerce site has a significant number of images. Which of the following is the BEST storage type for storing the images?

- A. Object
- B. Cold
- C. File
- D. Block

Correct Answer: A

Explanation: Object storage is a type of cloud storage that stores data as objects, which consist of data and metadata. Object storage is ideal for storing large amounts of unstructured data, such as images, videos, audio, documents, etc. Object storage provides high scalability, durability, and availability, as well as easy access via HTTP or REST APIs. Object storage is also more cost-effective than other types of storage, such as block or file storage, which are more suitable for structured data or applications that require high performance or low latency. References: CompTIA Cloud Essentials+ Certification Exam Objectives1, CompTIA Cloud Essentials+ Study Guide, Chapter 4: Cloud Storage2

QUESTION 2

A software developer wants to ensure a packaged application can be deployed in different environments without modifying anything but the application settings. The developer creates an image and provides instructions for the systems administrator to use for deployment. This is an example of:

- A. application versioning.
- B. source code control.
- C. containerization.
- D. deployment automation.

Correct Answer: C

Explanation: Containerization is the process of developing software applications for containers, which are isolated user spaces that bundle application code with all the dependencies and libraries required to run on any infrastructure. Containerization allows applications to be deployed in different environments without modifying anything but the application settings. This is different from application versioning, which is the practice of assigning unique identifiers to different versions of an application. Source code control is the management of changes to source code files, which is not related to deployment. Deployment automation is the use of tools and scripts to automate the deployment process, which may or may not involve containers. References: Containerization Explained | IBM, Containerization (computing) - Wikipedia

QUESTION 3

Which of the following cloud characteristics BEST describes the ability to add resources upon request?

- A. Scalability
- B. Portability
- C. Integrity
- D. Availability

Correct Answer: A

Explanation: Scalability in cloud computing is the ability to scale up or scale down cloud resources as needed to meet demand¹. This is one of the main benefits of using the cloud -- and it allows companies to better manage resources and costs². Scalability enables businesses to easily add or remove computing resources, such as computing power, storage, or network capacity, on demand, without significant hardware investment or infrastructure changes³. Scalability ensures that businesses can efficiently and seamlessly handle varying workloads, optimize resource utilization, and enhance the overall reliability and performance of cloud computing systems⁴. References: What is Cloud Scalability? | Cloud Scale | VMware Exploring Scalability in Cloud Computing: Benefits and Best Practices | MEGA What is Cloud Scalability? | Simplilearn What Is Cloud Scalability? 4 Benefits For Every Organization - CloudZero

QUESTION 4

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.

QUESTION 5

A company hired a DevOps engineer to move business systems to the cloud. The current systems administrator does not have scripting experience and has been deploying servers manually. Which of the following would BEST optimize this process?

- A. Infrastructure as code deployment model
- B. API integration to a cloud provider
- C. Load testing

D. Continuous delivery/continuous integration

Correct Answer: A

Explanation: Infrastructure as code (IaC) is a key DevOps practice that involves the management of infrastructure, such as networks, compute services, databases, storages, and connection topology, in a descriptive model. IaC allows teams to develop and release changes faster and with greater confidence. IaC avoids manual configuration and enforces consistency by representing desired environment states via well-documented code in formats such as JSON. Infrastructure deployments with IaC are repeatable and prevent runtime issues caused by configuration drift or missing dependencies. IaC also helps teams to provision multiple test environments reliably on demand. Therefore, IaC would best optimize the process of moving business systems to the cloud and reduce the need for scripting experience and manual deployment. References: CompTIA Cloud Essentials+ CLO-002 Study Guide, Chapter 5: Cloud Migration, page 1971; What is infrastructure as code (IaC)? - Azure DevOps2

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