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QUESTION 1

A large online car retailer needs to leverage the public cloud to host photos that must be accessible from anywhere and available at anytime. Which of the following cloud storage types would be cost-effective and meet the requirements?

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

Correct Answer: D

Explanation: Object storage is a cloud storage type that would be cost-effective and meet the requirements of a large online car retailer that needs to host photos that must be accessible from anywhere and available at anytime. Object

storage is a type of cloud storage that stores data as objects, which consist of data, metadata, and a unique identifier. Object storage is ideal for storing large amounts of unstructured data, such as photos, videos, audio, documents, and web

pages. Object storage offers several advantages for the online car retailer, such as:

Cost-effectiveness: Object storage is typically cheaper than other types of cloud storage, such as file storage and block storage, because it does not require a complex file system or a high-performance storage network. Object storage also offers pay-per-use pricing, which means the retailer only pays for the amount of storage they consume.

Accessibility: Object storage allows data to be accessed from anywhere and anytime, using a simple HTTP or HTTPS request. Object storage also supports RESTful APIs, which enable easy integration with web and mobile applications.

Object storage can also leverage content delivery networks (CDNs), which distribute data across multiple locations to improve performance and availability. Scalability: Object storage can scale to store virtually unlimited amounts of data, without compromising performance or reliability. Object storage can also handle concurrent requests from multiple users, which is important for a high-traffic website like the online car retailer.

Durability: Object storage ensures data durability by replicating data across multiple servers or regions, which protects data from hardware failures, natural disasters, or human errors. Object storage also supports versioning, which allows data to be restored to a previous state in case of accidental deletion or modification.

References: CompTIA Cloud Essentials+ CLO-002 Study Guide, Chapter 2: Cloud Concepts, Section 2.2: Cloud Technologies, Page 55. What Is Cloud Storage? Definition, Types, Benefits, and Best Practices - Spiceworks1 What Is a Public

Cloud? | Google Cloud2

QUESTION 2

Each time a new virtual machine is created, a systems administrator creates a new script to accomplish tasks such as obtaining an IP, provisioning a virtual machine, and populating information in a change management database. Creating

a new script to coordinate all of these existing scripts into one is BEST an example of:

- A. automation.
- B. orchestration.
- C. collaboration.
- D. federation.

Correct Answer: B

Explanation: Orchestration is the process of coordinating multiple automated tasks to create a dynamic and complex workflow¹. Orchestration can simplify and streamline the management of cloud resources and services by integrating different scripts, tools, and platforms². Creating a new script to coordinate all of the existing scripts into one is an example of orchestration, as it involves managing multiple automated tasks to accomplish a larger goal, such as provisioning a virtual machine and updating a change management database. Automation, on the other hand, refers to automating a single task or a small number of related tasks, such as obtaining an IP or populating information in a database¹. Automation does not require coordination or decision-making, unlike orchestration. Collaboration and federation are not related to the question, as they refer to the interaction and integration of different cloud providers or users, not the automation or orchestration of cloud tasks³. References: Orchestration vs Automation: The Main Differences - phoenixNAP; Cloud Automation vs Cloud Orchestration: Understanding the Differences; CompTIA Cloud Essentials+ CLO-002 Study Guide, Chapter 3: Cloud Computing Concepts, pages 85-86.

QUESTION 3

A company decides to move some of its computing resources to a public cloud provider but keep the rest in-house. Which of the following cloud migration approaches does this BEST describe?

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

Correct Answer: B

Explanation: A hybrid cloud migration approach best describes the scenario where a company decides to move some of its computing resources to a public cloud provider but keep the rest in-house. A hybrid cloud is a type of cloud deployment that combines public and private cloud resources, allowing data and applications to move between them. A hybrid cloud can offer the benefits of both cloud models, such as scalability, cost-efficiency, security, and control. A hybrid cloud migration approach can help a company to leverage the advantages of the public cloud for some workloads, while maintaining the on-premise infrastructure for others. For example, a company may choose to migrate its web applications to the public cloud to improve performance and availability, while keeping its sensitive data and legacy systems in the private cloud for compliance and compatibility reasons. A hybrid cloud migration approach can also enable a gradual transition to the cloud, by allowing the company to move workloads at its own pace and test the cloud environment before fully committing to it. References: CompTIA Cloud Essentials+ CLO- 002 Study Guide, Chapter 2: Cloud Concepts, Section 2.1: Cloud Deployment Models, Page 43. What is Hybrid Cloud? Everything You Need to Know - NetApp¹

QUESTION 4

Which of the following is MOST likely to use a CDN?

- A. Realty listing website
- B. Video streaming service
- C. Email service provider
- D. Document management system

Correct Answer: B

Explanation: A CDN (content delivery network) is a network of distributed servers that store and deliver content to users based on their geographic location and network conditions. A CDN can improve the performance, availability, scalability, and security of web-based applications and services by reducing the latency, bandwidth, and load on the origin server. A CDN is most likely to be used by a video streaming service, which typically involves large amounts of data, high demand, and diverse audiences. A video streaming service can benefit from using a CDN by caching and streaming the video content from the nearest or best-performing server to the user, thus enhancing the user experience and reducing the cost and complexity of the service. A realty listing website is a web-based application that allows users to search, view, and compare properties for sale or rent. A realty listing website may use a CDN to improve the performance and availability of the website, especially if it has a large number of images, videos, or other media files. However, a realty listing website is not as likely to use a CDN as a video streaming service, since the content is not as dynamic, the demand is not as high, and the audience is not as diverse. An email service provider is a company that offers email hosting, management, and delivery services to users. An email service provider may use a CDN to improve the security and reliability of the email service, especially if it has a large number of users, messages, or attachments. However, an email service provider is not as likely to use a CDN as a video streaming service, since the content is not as public, the performance is not as critical, and the location is not as relevant. A document management system is a software application that allows users to create, store, organize, and share documents. A document management system may use a CDN to improve the scalability and accessibility of the document storage and retrieval, especially if it has a large number of documents, users, or collaborators. However, a document management system is not as likely to use a CDN as a video streaming service, since the content is not as large, the demand is not as variable, and the audience is not as global. References: CompTIA Cloud Essentials+ CLO-002 Study Guide, page 165- 166; CompTIA Cloud Essentials+ Certification Training, CertMaster Learn for Cloud Essentials+, Module 4: Management and Technical Operations, Lesson 4.2: Cloud Networking, Topic 4.2.4: Content Delivery Networks

QUESTION 5

A business analyst has been drafting a risk response for a vulnerability that was identified on a server. After considering the options, the analyst decides to decommission the server. Which of the following describes this approach?

- A. Mitigation
- B. Transference
- C. Acceptance
- D. Avoidance

Correct Answer: D

Explanation: Avoidance is a risk response strategy that involves eliminating the threat or uncertainty associated with a risk by removing the cause or the source of the risk. Avoidance can help to prevent the occurrence or the impact of a negative risk, but it may also result in the loss of potential opportunities or benefits. Avoidance is usually applied when the risk is too high or too costly to mitigate, transfer, or accept. The business analyst is using the avoidance strategy by decommissioning the server that has a vulnerability. By doing so, the analyst is eliminating the possibility of the

vulnerability being exploited or causing harm to the system or the data. However, the analyst is also losing the functionality or the value that the server provides, and may need to find an alternative solution or resource. Mitigation is not the correct answer, because mitigation is a risk response strategy that involves reducing the probability or the impact of a negative risk by implementing actions or controls that can minimize or counteract the risk. Mitigation can help to lower the exposure or the severity of a risk, but it does not eliminate the risk completely. Mitigation is usually applied when the risk is moderate or manageable, and the cost of mitigation is justified by the potential benefit¹² Transference is not the correct answer, because transference is a risk response strategy that involves shifting the responsibility or the impact of a negative risk to a third party, such as a vendor, a partner, or an insurer. Transference can help to share or distribute the risk, but it does not reduce or remove the risk. Transference is usually applied when the risk is beyond the control or the expertise of the organization, and the cost of transference is acceptable or affordable¹² Acceptance is not the correct answer, because acceptance is a risk response strategy that involves acknowledging the existence or the possibility of a negative risk, and being prepared to deal with the consequences if the risk occurs. Acceptance can be passive, which means no action is taken to address the risk, or active, which means a contingency plan or a reserve is established to handle the risk. Acceptance is usually applied when the risk is low or inevitable, and the cost of avoidance, mitigation, or transference is higher than the cost of acceptance¹² References: 1: <https://www.projectengineer.net/5-risk-response-strategies/> 2: <https://www.comptia.org/training/books/cloud-essentials-clo-002-study-guide>, page 50

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