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QUESTION 1

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 2

For security reasons, a cloud service that can be accessed from anywhere would make BEST use of:

- A. replication.
- B. multifactor authentication.
- C. single sign-on.
- D. data locality

Correct Answer: B

Explanation: Multifactor authentication is a security method that requires users to provide more than one piece of evidence to verify their identity before accessing a cloud service. For example, users may need to enter a password, a

code sent to their phone or email, a biometric scan, or a physical token. Multifactor authentication can enhance the security of a cloud service that can be accessed from anywhere, as it can prevent unauthorized access even if the password is compromised or stolen. Multifactor authentication can also protect the cloud service from phishing, brute force, or replay attacks, as well as comply with regulatory or industry standards. Multifactor authentication is different from other options, such as replication, single sign-on, or data locality. Replication is the process of copying data or resources across multiple locations, such as regions, zones, or data centers, to improve availability, performance, or backup. Single sign-on is a user authentication method that allows users to access multiple cloud services with one set of credentials, such as username and password. Data locality is the principle of storing data close to where it is used, such as in the same region, country, or jurisdiction, to improve performance, security, or compliance. While these options may also have some benefits for a cloud service that can be accessed from anywhere, they do not directly address the security concern, which is the focus of the question. References : What is MFA? - Multi-Factor Authentication and 2FA Explained - AWS, Multi-Factor Authentication (MFA) for IAM - aws.amazon.com, Multi-Factor Authentication and Single Sign-On | Duo Security

QUESTION 3

A company is moving to the cloud and wants to enhance the provisioning of compute, storage, security, and networking. Which of the following will be leveraged?

- A. Infrastructure as code
- B. Infrastructure templates
- C. Infrastructure orchestration
- D. Infrastructure automation

Correct Answer: A

Explanation: Infrastructure as code (IaC) is a DevOps practice that uses code to define and deploy infrastructure, such as networks, virtual machines, load balancers, and connection topologies¹. IaC ensures consistency, repeatability, and scalability of the infrastructure, as well as enables automation and orchestration of the provisioning process². IaC is different from infrastructure templates, which are predefined configurations that can be reused for multiple deployments³. Infrastructure orchestration is the process of coordinating multiple automation tasks to achieve a desired state of the infrastructure⁴. Infrastructure automation is the broader term for any technique that uses technology to perform infrastructure tasks without human intervention⁵. References: CompTIA Cloud Essentials CLO-002 Certification Study Guide, Chapter 4: Operating in the Cloud, page 137 What is infrastructure as code (IaC)?, Azure DevOps | Microsoft Learn CompTIA Cloud Essentials+ Certification Study Guide, Second Edition (LO-002), Chapter 4: Operating in the Cloud, page 137 Infrastructure Automation: 7 DevOps Tools for Orchestration, Secrets Management, and More, Apriorit Blog Infrastructure As Code Vs Configuration Management, DevOpsCube Blog

QUESTION 4

Which of the following is a benefit of microservice applications in a cloud environment?

- A. Microservices are dependent on external shared databases found on cloud solutions.
- B. Federation is a mandatory component for an optimized microservice deployment.
- C. The architecture of microservice applications allows the use of auto-scaling.
- D. Microservice applications use orchestration solutions to update components in each service.

Correct Answer: C

Explanation: Microservice applications are composed of many smaller, loosely coupled, and independently deployable services, each with its own responsibility and technology stack¹. One of the benefits of microservice applications in a cloud environment is that they can use auto-scaling, which is the ability to automatically adjust the amount of computing resources allocated to a service based on the current demand². Auto-scaling can help improve the performance, availability, and cost-efficiency of microservice applications, as it allows each service to scale up or down according to its own needs, without affecting the rest of the application². Auto-scaling can also help handle unpredictable or variable workloads, such as spikes in traffic or seasonal fluctuations². Auto-scaling can be implemented using different cloud services, such as Google Kubernetes Engine (GKE) or Cloud Run, which provide both horizontal and vertical scaling options for microservice applications^{3,4}. References: 1: IBM, What are Microservices?; 2: AWS, What is Auto Scaling?; 3: Google Cloud, Autoscaling Deployments; 4: Google Cloud, Scaling Cloud Run services

QUESTION 5

Which of the following would help a company avoid failure of a cloud project due to a lack of adherence of the company's operations and business processes to a cloud solution?

- A. Cloud managed services
- B. Company baseline
- C. Proof of value
- D. Industry benchmarks

Correct Answer: C

Explanation: A proof of value (POV) is a method of testing a cloud solution before fully adopting it, to ensure that it meets the company's operations and business processes. A POV can help a company avoid failure of a cloud project by validating the feasibility, functionality, and benefits of the cloud solution, and identifying any gaps or issues that need to be resolved. A POV can also help a company compare different cloud solutions and select the best one for their needs. A POV is different from a proof of concept (POC), which is a more technical demonstration of the cloud solution's capabilities and performance. References: CompTIA Cloud Essentials+ Certification Study Guide, Second Edition (LO002), Chapter 3: Cloud Planning, Section 3.2: Cloud Adoption, Subsection 3.2.2: Proof of Value¹

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