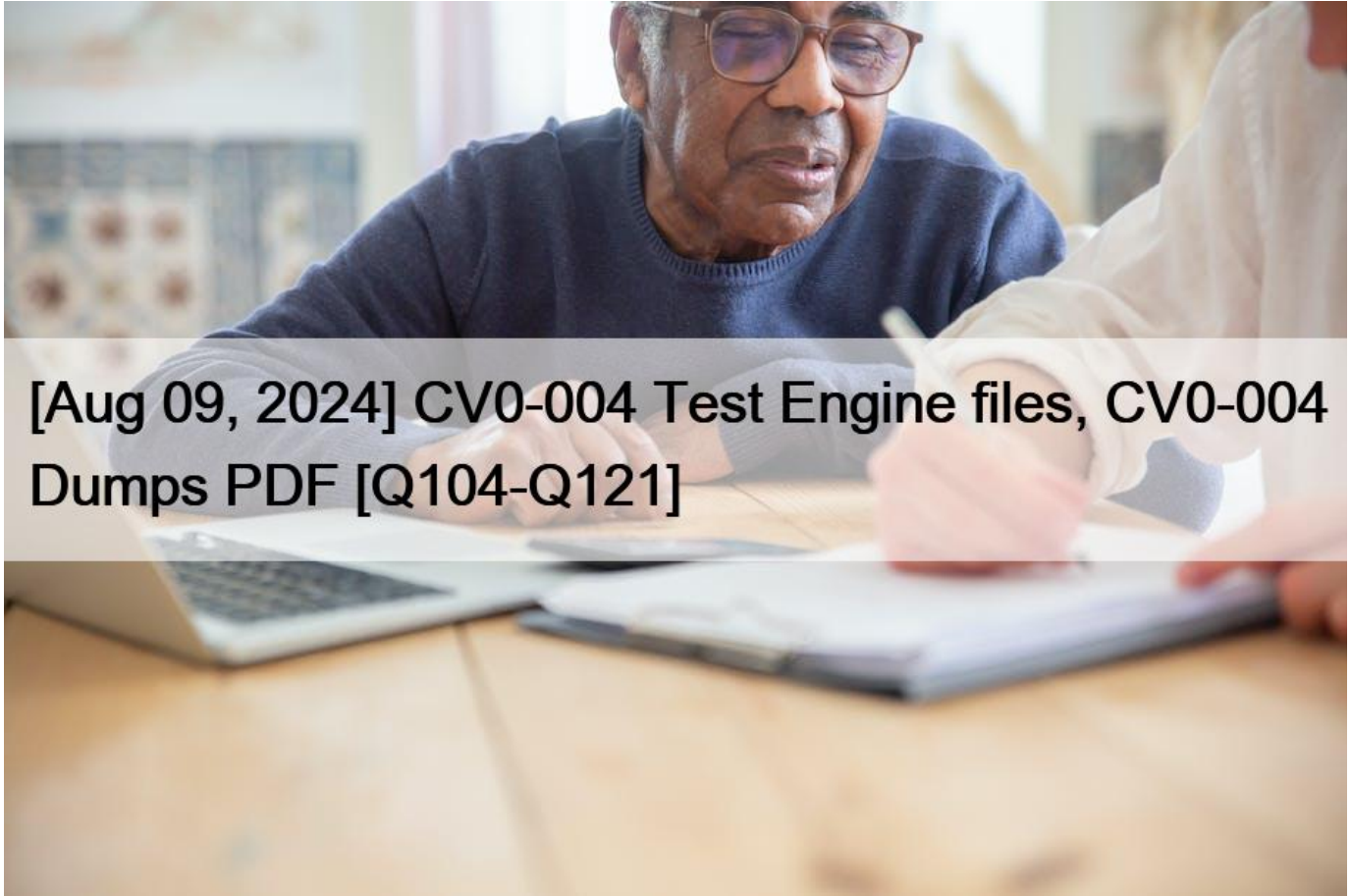


[Aug 09, 2024 CV0-004 Test Engine files, CV0-004 Dumps PDF [Q104-Q121



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NEW QUESTION 104

A company has decided to adopt a microservices architecture for its applications that are deployed to the cloud. Which of the following is a major advantage of this type of architecture?

- * Increased security
- * Simplified communication
- * Reduced server cost
- * Rapid feature deployment

A major advantage of adopting a microservices architecture is rapid feature deployment.

Microservices allow for independent development, deployment, and scaling of individual service components, enabling teams to bring new features to market more quickly and efficiently compared to monolithic architectures.

NEW QUESTION 105

An on-premises data center is located in an earthquake-prone location. The workload consists of real-time, online transaction processing. Which of the following data protection strategies should be used to back up on-premises data to the cloud while also being cost effective?

- * Remote replication for failover
- * A copy that is RAID 1 protected on spinning drives in an on-premises private cloud
- * A full backup to on-site tape libraries in a private cloud
- * Air-gapped protection to provide cyber resiliency

Remote replication for failover is the data protection strategy that should be used to back up on-premises data to the cloud for an earthquake-prone location. It provides real-time or near-real-time copying of data to a remote location, which can be quickly activated in case the primary site fails. References: Disaster recovery strategies, including remote replication for failover, are part of the cloud-based data protection methods covered in the CompTIA Cloud+ certification.

NEW QUESTION 106

A cloud engineer needs to integrate a new payment processor with an existing e-commerce website. Which of the following technologies is the best fit for this integration?

- * RPC over SSL
- * Transactional SQL
- * REST API over HTTPS
- * Secure web socket

The best technology for integrating a new payment processor with an existing e-commerce website is a REST API over HTTPS. This method is widely used for web services, allowing secure communication over the internet and a standardized way for applications to communicate with each other. Reference: CompTIA Cloud+ Study Guide (Exam CV0-004) – Chapter on Cloud Integration

NEW QUESTION 107

A company uses containers to implement a web application. The development team completed internal testing of a new feature and is ready to move the feature to the production environment. Which of the following deployment models would best meet the company's needs while minimizing cost and targeting a specific subset of its users?

- * Canary
- * Blue-green
- * Rolling
- * In-place

The canary deployment model is an approach where a new feature or service is rolled out to a small subset of users before being deployed widely. This method allows the company to test the impact of the new feature in the production environment with a limited scope, minimizing risk and potential cost implications if issues arise. This approach contrasts with blue-green deployments, which involve switching between two identical environments; rolling deployments, which gradually update all instances; and in-place deployments, which update the current environment. The canary model is particularly suited for targeting specific user groups and gathering feedback before a full rollout.

NEW QUESTION 108

Which of the following technologies should be used by a person who is visually impaired to access data from the cloud?

- * Object character recognition
- * Text-to-voice
- * Sentiment analysis
- * Visual recognition

Text-to-voice (or text-to-speech) technology should be used by a person who is visually impaired to access data from the cloud. It converts text data into audible speech, allowing visually impaired individuals to receive the information audibly.

NEW QUESTION 109

A customer's facility is located in an area where natural disasters happen frequently. The customer requires the following:

- Data resiliency due to exposure to frequent natural disasters
- Data localization because of privacy regulations in the country
- High availability

Which of the following cloud resources should be provisioned to meet these requirements?

- * Storage in a separate data center located in same region
- * An on-premises private cloud carrying duplicate data
- * Storage in an availability zone outside the region
- * Storage in the same availability zone as the primary data

To meet the requirements of data resiliency, data localization, and high availability in a region prone to natural disasters, the customer should provision storage in an availability zone outside the region. This ensures that data is not affected by regional disasters and complies with data localization by remaining within the country's borders, while also providing high availability.

NEW QUESTION 110

Which of the following provides secure, private communication between cloud environments without provisioning additional hardware or appliances?

- * VPN
- * VPC peering
- * BGP
- * Transit gateway

VPC peering provides secure, private communication between cloud environments without the need for provisioning additional hardware or appliances. It allows direct network connectivity between two Virtual Private Clouds (VPCs), enabling resources in either VPC to communicate with each other using private IP addresses.

Reference: Cloud networking options such as VPC peering and its benefits are included in the networking concepts of cloud environments in the CompTIA Cloud+ certification.

NEW QUESTION 111

An IT security team wants to ensure that the correct parties are informed when a specific user account is signed in. Which of the following would most likely allow an administrator to address this concern?

- * Creating an alert based on user sign-in criteria
- * Aggregating user sign-in logs from all systems
- * Enabling the collection of user sign-in logs
- * Configuring the retention of all sign-in logs

To ensure that the correct parties are informed when a specific user account is signed in, the best action is to create an alert based on user sign-in criteria. This alert can notify administrators or security personnel when the specified event occurs.

Reference: Security monitoring and alerting are critical components of managing cloud environments securely, as discussed in the CompTIA Cloud+ certification.

NEW QUESTION 112

Which of the following do developers use to keep track of changes made during software development projects?

- * Code drifting
- * Code control
- * Code testing
- * Code versioning

Developers use code versioning to keep track of changes made during software development projects. It is a system that records changes to a file or set of files over time so that specific versions can be recalled later. Reference: CompTIA Cloud+ Study Guide (Exam CV0-004) – Chapter on Software Development in Cloud Environments

NEW QUESTION 113

Two CVEs are discovered on servers in the company’s public cloud virtual network. The CVEs are listed as having an attack vector value of network and CVSS score of 9.0. Which of the following actions would be the best way to mitigate the vulnerabilities?

- * Patching the operating systems
- * Upgrading the operating systems to the latest beta
- * Encrypting the operating system disks
- * Disabling unnecessary open ports

For vulnerabilities with a high CVSS score and a network attack vector, the most effective and direct mitigation action is to patch the operating systems. Patching addresses the specific vulnerabilities that have been identified and helps to secure the servers against the known exploits that could take advantage of these CVEs.

NEW QUESTION 114

A company wants to combine solutions in a central and scalable environment to achieve the following goals:

– Control

– Visibility

– Automation

– Cost efficiency

Which of the following best describes what the company should implement?

- * Batch processing
- * Workload orchestration
- * Containerization
- * Application modernization

Workload orchestration is the best description of what the company should implement to achieve control, visibility, automation, and cost efficiency. It involves using orchestration tools to manage workloads in cloud environments, ensuring resources are used efficiently and operations are automated.

NEW QUESTION 115

A customer is migrating applications to the cloud and wants to grant authorization based on the classification levels of each system. Which of the following should the customer implement to ensure authorisation to systems is granted when the user and system classification properties match? (Choose two.)

- * Resource tagging
- * Discretionary access control
- * Multifactor authentication
- * Role-based access control
- * Token-based authentication
- * Bastion host

Discretionary Access Control (DAC) and Role-Based Access Control (RBAC) are effective methods for granting authorization based on system classification levels. DAC allows resource owners to grant access rights, making it flexible for environments with varying classification levels. RBAC assigns permissions based on roles within an organization, aligning access rights with the user's job functions and ensuring that users access only what is necessary for their role, which can be mapped to system classifications.

NEW QUESTION 116

A cloud developer is creating a static website that customers will be accessing globally. Which of the following services will help reduce latency?

- * VPC
- * Application load balancer
- * CDN
- * API gateway

A Content Delivery Network (CDN) is the service that will help reduce latency for a static website accessed globally. CDNs distribute content across multiple geographically dispersed servers, allowing users to connect to a server that is closer to them, thereby reducing the time it takes to load the website. References: The use of CDNs is a common practice to enhance global access and improve user experience, as covered under Cloud Concepts in the CompTIA Cloud+ certification.

NEW QUESTION 117

A developer is building a new application version using a CI/CD pipeline. The developer receives the following error message log when the build fails:

```
Traceback (most recent call last):  
File "app.py", line 4, in <module>  
import requests  
ModuleNotFoundError: No module named 'requests'
```

Which of the following is the most likely cause of this failure?

- * Incorrect version
- * Test case failure
- * Broken build pipeline
- * Dependency issue

The error message indicates that the `requests` module, which is a dependency, is not found. The failure is most likely due to the `requests` library not being installed or not included in the environment where the application is running. References: Dependency management is a crucial part of maintaining a CI/CD pipeline, a topic included in the CompTIA Cloud+ examination objectives.

NEW QUESTION 118

Which of the following definitions of serverless computing BEST explains how it is different from using VMs?

- * Serverless computing is a cloud-hosting service that utilizes infrastructure that is fully managed by the CSP.
- * Serverless computing uses predictable billing and offers lower costs than VM compute services.
- * Serverless computing is a scalable, highly available cloud service that uses SDN technologies.
- * Serverless computing allows developers to focus on writing code and organizations to focus on business.

AWS offers technologies for running code, managing data, and integrating applications, all without managing servers. Serverless technologies feature automatic scaling, built-in high availability, and a pay-for-use billing model to increase agility and optimize costs. These technologies also eliminate infrastructure management tasks like capacity provisioning and patching, so you can focus on writing code that serves your customers.

NEW QUESTION 119

A cloud engineer is reviewing the following Dockerfile to deploy a Python web application:

```
FROM cgr.dev/chainguard/python:latest
WORKDIR /myapp
COPY main.py ./
ENTRYPOINT ["python", "/myapp/main.py"]
```

Which of the following changes should the engineer make to the file to improve container security?

- * Add the instruction `USER nonroot`.
- * Change the version from latest to 3.11.
- * Remove the `ENTRYPOINT` instruction.
- * Ensure `myapp/main.py` is owned by root.

To improve container security, the engineer should add the instruction `USER nonroot` to the Dockerfile. This change ensures that the container does not run as the root user, which reduces the risk of privilege escalation attacks. Running containers as a non-root user is a best practice for enhancing security in containerized environments.

NEW QUESTION 120

A cloud engineer is designing a high-performance computing cluster for proprietary software. The software requires low network latency and high throughput between cluster nodes.

Which of the following would have the greatest impact on latency and throughput when designing the HPC infrastructure?

- * Node placement
- * Node size
- * Node NIC
- * Node OS

Node placement is critical in high-performance computing (HPC) clusters where low network latency and high throughput are required. Proper placement of nodes within the network infrastructure, including proximity to each other and to key network components, can significantly reduce latency and increase throughput. Ensuring that nodes are physically close and well-connected can facilitate faster data transfer rates between them. Reference: *CompTIA Cloud+ Certification Study Guide (Exam CV0-004)* by Scott Wilson and Eric Vanderburg

NEW QUESTION 121

A cloud administrator learns that a major version update, 4.6.0, is available for a business-critical application. The application is currently on version 4.5.2, with additional minor versions 3, 4, and 5 available. The administrator needs to perform the update while minimizing downtime. Which of the following should the administrator do first?

- * Apply the minor updates and then restart the machine before applying the major update.

- * During off hours, decommission the machine and create a new one directly on major update 4.6.0.
- * Stop the service and apply the major updates directly.
- * Create a test environment and apply the major update

The first step the administrator should take is to create a test environment and apply the major update there. This allows for testing the new version without impacting the production environment, thus minimizing downtime and the potential for unexpected issues.

Reference: Creating test environments and conducting thorough testing before applying updates in production is a risk mitigation strategy covered under cloud deployment and operations in the CompTIA Cloud+ certification.

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