Question 1

For compliance purposes, a cloud developer at an insurance company needs to save all customer policies for more than ten years. Which of the following options is the most cost-

efficient tier to save the data in the cloud?

Options:

A- Archive

B- Hot

C- Cold

D- Warm

Answer:

A

Explanation:

For compliance purposes, saving customer policies for more than ten years most cost-efficiently can be achieved by using the Archive storage tier. Archive or archival storage is designed for data that needs to be retained over the long term but accessed infrequently. It is generally the most cost-effective storage tier for this type of data. Reference: CompTIA Cloud+ Study Guide (Exam CV0-004) by Todd Montgomery and Stephen Olson

Question 2

A cloud deployment uses three different VPCs. The subnets on each VPC need to communicate with the others over private channels. Which of the following will achieve this objective?

Options:

A- Deploying a load balancer to send traffic to the private IP addresses

B- Creating peering connections between all VPCs

C- Adding BGP routes using the VPCs' private IP addresses

D- Establishing identical routing tables on all VPCs

Answer:

B

Explanation:

To allow subnets on different VPCs to communicate with each other over private channels, the cloud engineer should create peering connections between all the VPCs. VPC Peering allows networks to connect and route traffic using private IP addresses without the need for gateways, VPN connections, or separate physical hardware. Reference: CompTIA Cloud+ Study Guide (Exam CV0-004) by Todd Montgomery and Stephen Olson

Question 3

Question Type: MultipleChoice

A cloud engineer needs to determine a scaling approach for a payroll-processing solution that runs on a biweekly basis. Given the complexity of the process, the deployment to each

new VM takes about 25 minutes to get ready. Which of the following would be the best strategy?

Options:

A- Horizontal

B- Scheduled

C- Trending

D- Event

Answer:

B

Explanation:

For a biweekly payroll-processing solution that takes a significant amount of time to deploy to each new VM, the best scaling strategy is Scheduled scaling. This strategy involves preparing new instances in advance of when they are needed based on a known schedule, which in this case is the biweekly payroll process. By scheduling the scaling actions in advance, the cloud engineer ensures that the resources are ready when needed without incurring extra costs for running them all the time. Reference: CompTIA Cloud+ Study Guide (Exam CV0-004) by Todd Montgomery and Stephen Olson

Question 4

Question Type: **MultipleChoice**

A cloud engineer wants to deploy a new application to the cloud and is writing the following script:

```
terraform {
    required_providers {
        cloud_provider1 = {
            source = "hashicorp/cloud_provider1"
            version = "~> 4.16"
        }
    }
    required_version = ">= 1.2.0"
}
provider "cloud_provider1" {
    region = "us-west-2"
}
resource "server_instance" "app_server" {
    ami = "ami-830c94e3"
    instance_type = "t2.micro"
tags = {
    Name = "AppServerInstance"
    }
}
```

Which of the following actions will this script perform?

Options:

A- Upload a new VM image.

B- Create a new cloud resource.

C- Build a local server.

D- Import a cloud module.

Answer:

B

Explanation:

The script shown is written in Terraform, which is an infrastructure as code (IaC) tool used for building, changing, and versioning infrastructure safely and efficiently. This particular Terraform script specifies a required provider and its version, the Terraform version, sets the cloud provider's region, and then defines a resource for a server instance with a specific AMI ID and instance type. It also includes tags for the instance. The action this script will perform is to create a new cloud resource, specifically a server instance on the cloud provider's platform. Reference: CompTIA Cloud+ Study Guide (Exam CV0-004) by Todd Montgomery and Stephen Olson

Question 5

A cloud solutions architect needs to have consistency between production, staging, and development environments. Which of the following options will best achieve this goal?

Options:

A- Using Terraform templates with environment variables

B- Using Grafana in each environment

C- Using the ELK stack in each environment

D- Using Jenkins agents in different environments

Answer:

A

Explanation:

Terraform templates with environment variables can ensure consistency across different environments such as production, staging, and development. Terraform allows for infrastructure as code, which can be used to define and maintain infrastructure with consistency.
Reference: CompTIA Cloud+ Certification Study Guide (Exam CV0-004) by Scott Wilson and Eric Vanderburg.

Question 6

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

Options:

A- Object character recognition

B- Text-to-voice

C- Sentiment analysis

D- Visual recognition

Answer:

B

Explanation:

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. Reference: CompTIA Accessibility in IT Study Guide.

Question 7

A company runs a discussion forum that caters to global users. The company's monitoring system reports that the home page suddenly is seeing elevated response times, even

though internal monitoring has reported no issues or changes. Which of the following is the most likely cause of this issue?

Options:

A- Cryptojacking

B- Human error

C- DDoS

D- Phishing

Answer:

C

Explanation:

Elevated response times without reported issues or changes internally could indicate a Distributed Denial of Service (DDoS) attack, where multiple systems flood the bandwidth or resources of a targeted system, usually one or more web servers. Reference: CompTIA Security+ Guide to Network Security Fundamentals by Mark Ciampa.

Question 8

Question Type: MultipleChoice

Which of the following compute resources is the most optimal for running a single scripted task on a schedule?

Options:

A- Bare-metal server

B- Managed container

C- Virtual machine

D- Serverless function

Answer:

D

Explanation:

Serverless functions are ideal for running scripted tasks on a schedule because they can be triggered by events, run the task, and then shut down, incurring costs only for the actual compute time used. This eliminates the need for a continuously running server and is optimal for sporadic or scheduled tasks. Reference: CompTIA Cloud+ Certification Study Guide (Exam CV0-004) by Scott Wilson and Eric Vanderburg.

Question 9

Question Type: MultipleChoice

A log-parsing application requires significant processing power to ingest the logs streaming from web servers. The engineering team presents the cloud architect with four proposals

using the same underlying hardware. Which of the following should the cloud architect select in order to minimize the impact of an instance failure while keeping the cost as low as

possible?

Options:

A- Four instances of 4vCPU, 8GB RAM, 80GB SSD

B- Four instances of 4vCPU, 8GB RAM, 80GB HDD

C- Two instances of 8vCPU, 16GB RAM, 80GB SSD

D- Two instances of 8vCPU, 16GB RAM, 80GB HDD

Answer:

A

Explanation:

Choosing four instances with the given specifications would distribute the load and reduce the impact of any single instance failure. Using SSDs over HDDs would provide faster data processing capabilities which is crucial for a log-parsing application. This setup also retains cost efficiency by not over-provisioning resources. Reference: CompTIA Cloud+ Certification Study Guide (Exam CV0-004) by Scott Wilson and Eric Vanderburg.

Question 10

Question Type: **MultipleChoice**

A systems engineer is migrating a batch of 25 VMs from an on-premises compute cluster to a public cloud using the public cloud's migration agent. The migration job shows data

copies at a rate of 250Mbps. After five servers migrate, the data copies at a rate of 25Mbps. Which of the following should the engineer review first to troubleshoot?

Options:

A- The on-premises VM host hardware utilization

B- The on-premises ISP throttling rate

C- The IOPS on the SAN backing the on-premises cluster

D- The compute utilization of the VMs being migrated

Answer:

A

Explanation:

The engineer should review the on-premises VM host hardware utilization first. A decrease in transfer rate after a batch of migrations could suggest that the host hardware resources (like CPU, RAM, or network bandwidth) are becoming saturated, which would slow down additional migrations. Reference: CompTIA Cloud+ Certification Study Guide (Exam CV0-004) by Scott Wilson and Eric Vanderburg.

Question 11

Which of the following industry standards mentions that credit card data must not be exchanged or stored in cleartext?

Options:

A- CSA

B- GDPR

C- SOC2

D- PCI-DSS

Answer:

D

Explanation:

The Payment Card Industry Data Security Standard (PCI-DSS) is the industry standard that mandates that credit card data must not be stored or transmitted in cleartext. It includes requirements for encryption, access control, and other security measures to protect cardholder data. Reference: Official PCI Security Standards Council Site.

Question 12

A cloud engineer is exploring options to reduce the management overhead of the servers and network. Which of the following cloud service models should the engineer implement?

Options:

A- SaaS

B- XaaS

C- PaaS

D- IaaS

Answer:

C

Explanation:

Platform as a Service (PaaS) provides a platform allowing customers to develop, run, and manage applications without the complexity of building and maintaining the infrastructure typically associated with developing and launching an app. Adopting PaaS can significantly reduce the management overhead of servers and networks. Reference: CompTIA Cloud Essentials+ Certification Study Guide (Exam CLO-002) by Scott Wilson.