



# CompTIA

## Exam Questions CV0-004

CompTIA Cloud+

#### NEW QUESTION 1

A cloud administrator recently created three servers in the cloud. The goal was to create ACLs so the servers could not communicate with each other. The servers were configured with the following IP addresses:

|                 | Server 1        | Server 2        | Server 3        |
|-----------------|-----------------|-----------------|-----------------|
| IP address      | 172.16.12.7     | 172.16.12.14    | 172.16.13.4     |
| Subnet mask     | 255.255.255.240 | 255.255.255.240 | 255.255.255.240 |
| Default gateway | 172.16.12.1     | 172.16.12.17    | 172.16.13.15    |

After implementing the ACLs, the administrator confirmed that some servers are still able to reach the other servers. Which of the following should the administrator change to prevent the servers from being on the same network?

- A. The IP address of Server 1 to 172.16.12.36
- B. The IP address of Server 1 to 172.16.12.2
- C. The IP address of Server 2 to 172.16.12.18
- D. The IP address of Server 2 to 172.16.14.14

**Answer:** B

#### Explanation:

To prevent the servers from being on the same network and communicating with each other, the administrator should change the IP address of Server 1 to 172.16.12.2. This IP address is outside the subnet defined by the subnet mask 255.255.255.240, which would place Server 1 on a different subnet, preventing direct communication without routing. References: CompTIA Cloud+ Study Guide (Exam CV0-004) by Todd Montgomery and Stephen Olson

#### NEW QUESTION 2

A newly configured VM fails to run application updates despite having internet access. The updates download automatically from a third-party network. Given the following output:

```
$dig +short apac.updateserver.net
38.102.218.7
$dig +short na.updateserver.net
request timeout
```

Which of the following troubleshooting steps would be best to take?

- A. Checking DNS configurations
- B. Reconfiguring routing protocols
- C. Testing the IP address configuration
- D. Running a trace to the router

**Answer:** A

#### Explanation:

The best troubleshooting step to take given the output is to check DNS configurations. The failure to resolve the "na.updateserver.net" domain suggests a DNS resolution issue, which could be due to incorrect DNS settings, a failure in the DNS service, or an issue with the DNS server itself. References: Troubleshooting DNS issues is a crucial skill in cloud management, as DNS plays a fundamental role in network connectivity and access to resources. It is covered under Cloud Concepts in the CompTIA Cloud+ curriculum.

#### NEW QUESTION 3

A banking firm's cloud server will be decommissioned after a successful proof of concept using mirrored data. Which of the following is the best action to take regarding the storage used on the decommissioned server?

- A. Keep it temporarily.
- B. Archive it.
- C. Delete it.
- D. Retain it permanently

**Answer:** B

**Explanation:**

When a cloud server is decommissioned after a proof of concept, the best action to take regarding the storage used on the server is to archive it. Archiving ensures that the data is kept in a less accessible but secure storage service, which may be required for regulatory or compliance reasons, especially for a banking firm. References: Data management strategies, including archiving decommissioned data, are covered in the CompTIA Cloud+ examination objectives, particularly within the domain of management and technical operations.

**NEW QUESTION 4**

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

- 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. References: CompTIA Cloud+ Certification Study Guide (Exam CV0-004) by Scott Wilson and Eric Vanderburg.

**NEW QUESTION 5**

A cross-site request forgery vulnerability exploited a web application that was hosted in a public IaaS network. A security engineer determined that deploying a WAF in blocking mode at a CDN would prevent the application from being exploited again. However, a week after implementing the WAF, the application was exploited again. Which of the following should the security engineer do to make the WAF control effective?

- A. Configure the DDoS protection on the CDN.
- B. Install endpoint protection software on the VMs
- C. Add an ACL to the VM subnet.
- D. Deploy an IDS on the IaaS network.

**Answer:** C

**Explanation:**

After a WAF deployment fails to prevent an exploit, adding an Access Control List (ACL) to the Virtual Machine (VM) subnet can be an effective control. ACLs provide an additional layer of security by explicitly defining which traffic can or cannot enter a network segment. By setting granular rules based on IP addresses, protocols, and ports, ACLs help to restrict access to resources, thereby mitigating potential exploits and enhancing the security of the IaaS network. References: CompTIA Cloud+ materials cover governance, risk, compliance, and security for the cloud, including the implementation of network security controls like ACLs, to protect cloud environments from unauthorized access and potential security threats.

**NEW QUESTION 6**

A cloud engineer is running a latency-sensitive workload that must be resilient and highly available across multiple regions. Which of the following concepts best addresses these requirements?

- A. Cloning
- B. Clustering
- C. Hardware passthrough
- D. Stand-alone container

**Answer:** B

**Explanation:**

Clustering refers to the use of multiple servers/computers to form what appears to be a single system. This concept is key for achieving high availability and resilience, especially for latency-sensitive workloads. By distributing the workload across a cluster that spans multiple regions, the system can continue to operate even if one or more nodes fail, thus maintaining performance and availability. References: CompTIA Cloud+ Guide to Cloud Computing (ISBN: 978-1-64274-282-2)

**NEW QUESTION 7**

Which of the following network types allows the addition of new features through the use of network function virtualization?

- A. Local area network
- B. Wide area network
- C. Storage area network
- D. Software-defined network

**Answer:** D

**Explanation:**

A Software-Defined Network (SDN) is a network approach that allows the addition of new features through software configurations rather than hardware updates, making use of network function virtualization (NFV). NFV decouples network functions from proprietary hardware appliances, so they can run in software, which aligns with the flexibility offered by SDN. References: CompTIA Cloud+ Study Guide (Exam CV0-004) - Chapter on Network Management

**NEW QUESTION 8**

Which of the following strategies requires the development of new code before an application can be successfully migrated to a cloud provider?

- A. Refactor
- B. Rearchitect
- C. Rehost
- D. Replatform

**Answer:** A

**Explanation:**

Refactoring requires the development of new code before an application can be successfully migrated to a cloud provider. It often involves restructuring and optimizing the existing code without changing its external behavior to fit into the new cloud environment. References: Application migration strategies and the requirements for each, like refactoring, are included in cloud migration best practices covered in CompTIA Cloud+.

**NEW QUESTION 9**

A critical security patch is required on a network load balancer in a public cloud. The organization has a major sales conference next week, and the Chief Executive Officer does not want any interruptions during the demonstration of an application behind the load balancer. Which of the following approaches should the cloud security engineer take?

- A. Ask the management team to delay the conference.
- B. Apply the security patch after the event.
- C. Ask the upper management team to approve an emergency patch window.
- D. Apply the security patch immediately before the conference.

**Answer:** C

**Explanation:**

Given the critical nature of the patch and the upcoming major sales conference, the cloud security engineer should seek approval for an emergency patch window. This approach balances the need for security with the business requirement of no interruptions during the conference. References: The strategy of managing critical updates in alignment with business operations is part of the governance and risk management topics in the CompTIA Cloud+ certification material.

**NEW QUESTION 10**

A cloud architect is preparing environments to develop a new application that will process sensitive data. The project team consists of one internal developer, two external consultants, and three testers. Which of the following is the most important security control for the cloud architect to consider implementing?

- A. Setting up private development, public development, and testing environments
- B. Segregating environments for internal and external teams
- C. Configuring DDoS protection to mitigate the risk of downtime
- D. Using IAM and ACL in order to bolster DLP

**Answer:** D

**Explanation:**

In a project handling sensitive data with a mix of internal and external team members, implementing Identity and Access Management (IAM) and Access Control Lists (ACL) is crucial for Data Loss Prevention (DLP). These controls ensure that only authorized individuals have access to specific resources, and actions are governed according to the principle of least privilege, minimizing the risk of data leakage or unauthorized access.

**NEW QUESTION 10**

An organization wants to ensure its data is protected in the event of a natural disaster. To support this effort, the company has rented a colocation space in another part of the country. Which of the following disaster recovery practices can be used to best protect the data?

- A. On-site
- B. Replication
- C. Retention
- D. Off-site

**Answer:** D

**Explanation:**

For an organization looking to protect its data in the event of a natural disaster, the best disaster recovery practice would be off-site replication. By renting a colocation space in another part of the country, the company can maintain copies of their data and critical systems in a geographically separate location, ensuring they are not affected by the same disaster. References: CompTIA Cloud+ Study Guide (Exam CV0-004) - Chapter on Disaster Recovery

**NEW QUESTION 11**

A company experienced a data leak through its website. A security engineer, who is investigating the issue, runs a vulnerability scan against the website and receives the following output:

```
Nmap scan report for www.example.com (93.184.216.34)
Host is up (0.020s latency).
```

```
PORT STATE SERVICE
21/tcp open  ftp
443/tcp open  ssl/https
1119/tcp closed bnetgame
1935/tcp closed rtmp
```

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

- A. RTMP port open
- B. SQL injection
- C. Privilege escalation
- D. Insecure protocol

**Answer:** D

**Explanation:**

The data leak is most likely caused by the use of an insecure protocol. The vulnerability scan output shows that port 21/tcp for FTP (File Transfer Protocol) is open. FTP is known for transmitting data unencrypted, which could allow sensitive data to be intercepted during transfer. References: The security risks associated with the use of insecure or unencrypted protocols are covered under cloud security best practices in the CompTIA Cloud+ curriculum.

**NEW QUESTION 16**

A DevOps engineer is integrating multiple systems. Each system has its own API that exchanges data based on different application-level transactions. Which of the following delivery mechanisms would best support this integration?

- A. Enterprise service bus
- B. Socket
- C. RPC
- D. Queue

**Answer:** A

**Explanation:**

An Enterprise Service Bus (ESB) is designed to facilitate application integration by providing a centralized architecture for high-level, message-based, and event-driven communication between different systems. It is particularly well-suited for integrating multiple systems with their own APIs because it can handle various data formats and protocols, enabling different applications to communicate with each other seamlessly. References: CompTIA Cloud+ Certification Study Guide (Exam CV0-004) by Scott Wilson and Eric Vanderburg

**NEW QUESTION 20**

A junior cloud administrator was recently promoted to cloud administrator and has been added to the cloud administrator group. The cloud administrator group is the only one that can access the engineering VM. The new administrator unsuccessfully attempts to access the engineering VM. However, the other administrators can access it without issue. Which of the following is the best way to identify the root cause?

- A. Rebooting the engineering VM
- B. Reviewing the administrator's permissions to access the engineering VM
- C. Allowing connections from 0.0.0.0/70 to the engineering VM
- D. Performing a packet capture on the engineering VM

**Answer:** B

**Explanation:**

The best way to identify the root cause of why the new cloud administrator cannot access the engineering VM is by reviewing the administrator's permissions. It is possible that, despite being added to the cloud administrator group, the specific permissions to access the engineering VM were not properly configured. References: Permission issues are a common problem in cloud environments, and troubleshooting such issues is part of the cloud management skills discussed in the CompTIA Cloud+ certification

**NEW QUESTION 23**

A company wants to implement a work environment that will have low operational overhead and highly accessible enterprise resource planning, email, and data resources. Which of the following cloud service models should the company implement?

- A. IaaS
- B. PaaS
- C. DBaaS
- D. SaaS

**Answer:** D

**Explanation:**



A company that requires low operational overhead and highly accessible enterprise resources would benefit from implementing Software as a Service (SaaS). SaaS provides access to applications hosted in the cloud, eliminating the need for internal infrastructure or application development, which aligns with the requirement of having low operational overhead. References: CompTIA Cloud+ Study Guide (Exam CV0-004) by Todd Montgomery and Stephen Olson

#### NEW QUESTION 27

A cloud security analyst is investigating the impact of a recent cyberattack. The analyst is reviewing the following information:

Web server access log:

```
* 104.210.233.225 - - [21/10/2022:11:17: 40] "POST /uploadfile.html?f=myfile.php" 200 1638674
* 45.32.10.66 - - [21/10/2022:11:19:12] "GET /welcome.html" 200 5812
* 104.210.233.225 - - [21/10/2022:11:21:19] "GET /.. / .. / .. / .. /conf/server.xml HTTP/1.1" 200 74458
* 45.32.10.66 - - [21/10/22:11:22:32] "GET /admin.html HTTP/1.1" 200 9518
```

Web application firewall log:

```
"2022/10/21 11:17:33" "10.25.2.35" "104. 210.233.225" "user1" "File transfer completed successfully."
"2022/10/21 11:21:05" "10. 25.2. 35" "104. 210.233.225" "user1" "Accessed application page."
"2022/10/21 11:22:13" "10.25.2.35" "45. 32. 10. 66" "user2" "Accessing admin page. " Which of the following has occurred?
```

- A. The corporate administration page was defaced by the attacker.
- B. A denial-of-service attack was successfully performed on the web server.
- C. A new user was created on the web server by the attacker.
- D. Sensitive information from the corporate web server was leaked.

**Answer:** D

#### Explanation:

The logs indicate that the IP address 104.210.233.225 made a GET request that appears to traverse directories (as indicated by the '../..') to access 'server.xml', which is a configuration file for the server. This type of request is indicative of a directory traversal attack, which can lead to unauthorized access to sensitive files on the server. The successful 200 response code suggests that the file was accessed, implying that sensitive configuration data could have been leaked.

References: CompTIA Cloud+ Certification Study Guide (Exam CV0-004) by Scott Wilson and Eric Vanderburg

#### NEW QUESTION 28

A software engineer at a cybersecurity company wants to access the cloud environment. Per company policy, the cloud environment should not be directly accessible via the internet. Which of the following options best describes how the software engineer can access the cloud resources?

- A. SSH
- B. Bastion host
- C. Token-based access
- D. Web portal

**Answer:** B

#### Explanation:

A bastion host is the best option described for accessing cloud resources without direct internet access. It acts as a secure gateway to access internal networks from external sources and is often used in conjunction with other security measures such as SSH for secure connections. References: The use of bastion hosts as a secure access point to cloud resources is a security best practice covered in the CompTIA Cloud+ certification's domain on cloud security.

#### NEW QUESTION 30

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?

- A. Increased security
- B. Simplified communication
- C. Reduced server cost
- D. Rapid feature deployment

**Answer:** D

#### Explanation:

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. References: The CompTIA Cloud+ certification covers cloud design aspects, including architectural models like microservices, emphasizing their role in facilitating agile development practices and rapid feature release cycles in cloud environments.

#### NEW QUESTION 32

A company needs to deploy its own code directly in the cloud without provisioning additional infrastructure. Which of the following is the best cloud service model for the company to use?

- A. PaaS
- B. SaaS
- C. IaaS
- D. XaaS

**Answer:** A

#### Explanation:

Platform as a Service (PaaS) is the best cloud service model for deploying code directly in the cloud without provisioning additional infrastructure. PaaS provides a platform allowing customers to develop, run, and manage applications without the complexity of building and maintaining the infrastructure. References: The PaaS model and its benefits for application deployment are covered under the Cloud Concepts domain in the CompTIA Cloud+ certification.

#### NEW QUESTION 35

An e-commerce store is preparing for an annual holiday sale. Previously, this sale has increased the number of transactions between two and ten times the normal level of transactions. A cloud administrator wants to implement a process to scale the web server seamlessly. The goal is to automate changes only when necessary and with minimal cost.

Which of the following scaling approaches should the administrator use?

- A. Scale horizontally with additional web servers to provide redundancy.
- B. Allow the load to trigger adjustments to the resources.
- C. When traffic increases, adjust the resources using the cloud portal.
- D. Schedule the environment to scale resources before the sale begins.

**Answer: B**

#### Explanation:

To seamlessly scale the web server for an e-commerce store during an annual sale, it's best to allow the load to trigger adjustments to the resources. This approach uses autoscaling to automatically adjust the number of active servers based on the current load, ensuring an automated change that is cost-effective. References: CompTIA Cloud+ Study Guide (Exam CV0-004) - Chapter on Cloud Scalability

#### NEW QUESTION 38

Which of the following migration types is best to use when migrating a highly available application, which is normally hosted on a local VM cluster, for usage with an external user population?

- A. Cloud to on-premises
- B. Cloud to cloud
- C. On-premises to cloud
- D. On-premises to on-premises

**Answer: C**

#### Explanation:

When migrating a highly available application normally hosted on a local VM cluster for usage with an external user population, the best migration type would be on-premises to cloud. This allows the application to leverage the cloud's scalability and reach, providing better access to the external users. References: CompTIA Cloud+ Study Guide (Exam CV0-004) - Chapter on Cloud Migration

#### NEW QUESTION 42

An organization is hosting a seminar with eight individuals who need to connect to their own dedicated VM. The technician used the following VM configurations:

IP address: DHCP NIC: 1Gbps

Network: 10.1.10.0/29

Several users are unable to access their VMs. Which of the following best describes the reason?

- A. Not enough addresses are available.
- B. The routes are misconfigured.
- C. Too much traffic is on the network.
- D. DHCP is not working correctly on the VM.

**Answer: A**

#### Explanation:

The network is configured with a subnet of /29, which provides only 6 usable IP addresses after accounting for the network and broadcast addresses. With eight individuals needing to connect to their own dedicated VMs, there are not enough IP addresses available to assign to each VM, leading to several users being unable to access their VMs. This issue is not related to misconfigured routes, network traffic, or DHCP functionality, but rather the limited number of IP addresses available in the given subnet.

#### NEW QUESTION 47

A company that has several branches worldwide needs to facilitate full access to a specific cloud resource to a branch in Spain. Other branches will have only read access. Which of the following is the best way to grant access to the branch in Spain?

- A. Set up MFA for the users working at the branch.
- B. Create a network security group with required permissions for users in Spain.
- C. Apply a rule on the WAF to allow only users in Spain access to the resource.
- D. Implement an IPS/IDS to detect unauthorized users.

**Answer: B**

#### Explanation:

The best way to grant full access to a specific cloud resource to a branch in Spain, while other branches have only read access, is to create a network security group with the required permissions. This group can be configured to allow full access to users within the branch's IP range while restricting others to read-only access. References: CompTIA Cloud+ Study Guide (Exam CV0-004) - Chapter on Security Configuration

#### NEW QUESTION 48

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?

- 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. References: CompTIA Cloud+ Study Guide (Exam CV0-004) by Todd Montgomery and Stephen Olson

**NEW QUESTION 53**

A company wants to use a solution that will allow for quick recovery from ransomware attacks, as well as intentional and unintentional attacks on data integrity and availability. Which of the following should the company implement that will minimize administrative overhead?

- A. Object versioning
- B. Data replication
- C. Off-site backups
- D. Volume snapshots

**Answer:** D

**Explanation:**

Implementing volume snapshots is an effective solution for quick recovery from ransomware attacks and protecting data integrity and availability. Snapshots capture the state of a storage volume at a point in time and can be used to restore data quickly with minimal administrative overhead. References: Data protection strategies like volume snapshots are discussed under cloud data management and protection in the CompTIA Cloud+ objectives.

**NEW QUESTION 54**

A cloud engineer is provisioning a new application that requires access to the organization's public cloud resources. Which of the following is the best way for the cloud engineer to authenticate the application?

- A. Access key
- B. API
- C. MFA token
- D. Username and Password

**Answer:** A

**Explanation:**

The best way to authenticate an application requiring access to an organization's public cloud resources is through the use of an access key. Access keys provide



a secure means of authentication for applications and services without the need for interactive login credentials. This method is particularly useful for automated processes or applications that need to interact with cloud services programmatically, ensuring secure and efficient access control. References: CompTIA Cloud+ content emphasizes the importance of secure authentication mechanisms, such as access keys, in managing and securing access to cloud resources, aligning with best practices for cloud security and application deployment.

#### NEW QUESTION 55

A network administrator is budding a site-to-site VPN tunnel from the company's headquarters office to the company's public cloud development network. The network administrator confirms the following:

The VPN tunnel is established on the headquarter office firewall.

While inside the office, developers report that they cannot connect to the development network resources.

While outside the office on a client VPN, developers report that they can connect to the development network resources.

The office and the client VPN have different IP subnet ranges.

The firewall flow logs show VPN traffic is reaching the development network from the office. Which of the following is the next step the next network administrator should take to troubleshoot the VPN tunnel?

- A. Review the development network routing table.
- B. Change the ciphers on the site-to-site VPN.
- C. Restart the site-to-site VPN tunnel.
- D. Check the ACLS on the development workloads

**Answer:** A

#### Explanation:

The next step in troubleshooting the VPN tunnel issue is to review the development network routing table. This action will help determine if the routing configurations are correctly directing traffic from the headquarters office through the VPN tunnel to the development network resources. Proper routing ensures that data packets find their way to the correct destination within the cloud environment, which is critical for establishing successful communication between different network segments. References: CompTIA Cloud+ materials stress the importance of networking fundamentals in cloud environments, including VPN configurations and routing, to ensure secure and efficient connectivity between on-premises infrastructure and cloud resources.

#### NEW QUESTION 59

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?

- 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. References: CompTIA Cloud+ Study Guide (Exam CV0-004) by Todd Montgomery and Stephen Olson

#### NEW QUESTION 61

A company's engineering department is conducting a month-long test on the scalability of an in-house-developed software that requires a cluster of 100 or more servers. Which of the following models is the best to use?

- A. PaaS
- B. SaaS
- C. DBaaS
- D. IaaS

**Answer:** D

#### Explanation:

For testing the scalability of an in-house-developed software that requires a cluster of 100 or more servers, Infrastructure as a Service (IaaS) is the best model. IaaS provides the necessary computer resources and allows the engineering department to configure the environment as needed for their specific test without the constraints that might be present in PaaS or SaaS offerings. References: CompTIA Cloud+ Study Guide (Exam CV0-004) - Chapter on Cloud Service Models

#### NEW QUESTION 65

A list of CVEs was identified on a web server. The systems administrator decides to close the ports and disable weak TLS ciphers. Which of the following describes this vulnerability management stage?

- A. Scanning
- B. Identification
- C. Assessment
- D. Remediation

**Answer:** D

#### Explanation:

Closing the ports and disabling weak TLS ciphers as a response to a list of identified CVEs (Common Vulnerabilities and Exposures) describes the vulnerability management stage of 'remediation'. This stage involves taking actions to resolve vulnerabilities and mitigate potential risks. References: Vulnerability management stages, including remediation efforts, are a key aspect of the security measures discussed in CompTIA Cloud+.

#### NEW QUESTION 67

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?

- A. RPC over SSL
- B. Transactional SQL
- C. REST API over HTTPS
- D. Secure web socket

**Answer:** C

**Explanation:**

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. References: CompTIA Cloud+ Study Guide (Exam CV0-004) - Chapter on Cloud Integration

**NEW QUESTION 70**

A cloud consultant needs to modernize a legacy application that can no longer address user demand and is expensive to maintain. Which of the following is the best migration strategy?

- A. Retain
- B. Rehost
- C. Refactor
- D. Replatform

**Answer:** C

**Explanation:**

Refactoring is the process of restructuring existing computer code without changing its external behavior. In cloud computing, it often means modifying the application to better leverage cloud-native features and services. This can address user demand and reduce maintenance costs by making the application more scalable, resilient, and manageable. References: CompTIA Cloud+ Certification Study Guide (Exam CV0-004) by Scott Wilson and Eric Vanderburg

**NEW QUESTION 71**

A CI/CD pipeline is used to deploy VMs to an IaaS environment. Which of the following can be used to harden the operating system once the VM is running?

- A. Docker
- B. Kubernetes
- C. Git
- D. Ansible

**Answer:** D

**Explanation:**

Ansible can be used to harden the operating system once the VM is running. It is an automation tool that can configure systems, deploy software, and orchestrate more advanced IT tasks such as continuous deployments or zero downtime rolling updates. References: Ansible and other configuration management tools are part of the cloud management strategies discussed in the CompTIA Cloud+ certification material.

**NEW QUESTION 73**

A cloud engineer is extending on-premises services to a public cloud. The following design requirements must be considered in the overall solution:

" The ability to remotely connect systems from both environments

- No IP address conflicts or overlap
- Cost-effectiveness

Which of the following cloud network concepts best meets these requirements?

- A. Dedicated connection
- B. VPN
- C. VLAN
- D. ACL

**Answer:** B

**Explanation:**

A Virtual Private Network (VPN) is the most cost-effective solution for extending on-premises services to a public cloud while ensuring secure remote connectivity. VPNs can be configured to avoid IP address conflicts and overlap by using IP address translation and tunneling techniques, making them suitable for connecting disparate environments without significant changes to the existing network infrastructure.

**NEW QUESTION 78**

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 authorization to systems is granted when the user and system classification properties match? (Select two).

- A. Resource tagging
- B. Discretionary access control
- C. Multifactor authentication
- D. Role-based access control
- E. Token-based authentication
- F. Bastion host

**Answer:** BD

#### Explanation:

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. References: CompTIA Cloud+ content covers various access control models, emphasizing the importance of implementing appropriate security measures that align with organizational policies and classification levels to ensure secure and authorized access to cloud systems.

#### NEW QUESTION 82

##### SIMULATION

You are a cloud engineer working for a cloud service provider that is responsible for an IaaS offering.

Your customer, who creates VMs and manages virtual storage, has noticed I/O bandwidth issues and low IOPS (under 9000).

Your manager wants you to verify the proper storage configuration as dictated by your service level agreement (SLA).

The SLA specifies:

- . Each SFP on the hypervisor host must be set to the maximum link speed allowed by the SAN array.
- . All SAN array disk groups must be configured in a RAID 5.
- . The SAN array must be fully configured for redundant fabric paths.
- . IOPS should not fall below 14000

##### INSTRUCTIONS

Click on each service processor to review the displayed information. Then click on the drop-down menus to change the settings of each device as necessary to conform to the SLA requirements.

**Hypervisor**

**Slot A fiber channel card**

Port 1 link speed: 16 Gbps

Port 2 link speed: 16 Gbps

**Slot B fiber channel card**

Port 1 link speed: 4 Gbps

Port 2 link speed: 8 Gbps

**Fabric switch A**

(WWPN pool: 50:00:00:25:B5:A0:23:00 - 50:00:00:25:B5:A0:23:09)

Initiator table:

- 50:00:00:25:B5:A0:23:02
- 50:00:00:25:B5:B0:23:05

**Fabric switch B**

(WWPN pool: 50:00:00:25:B5:B0:23:00 - 50:00:00:25:B5:B0:23:09)

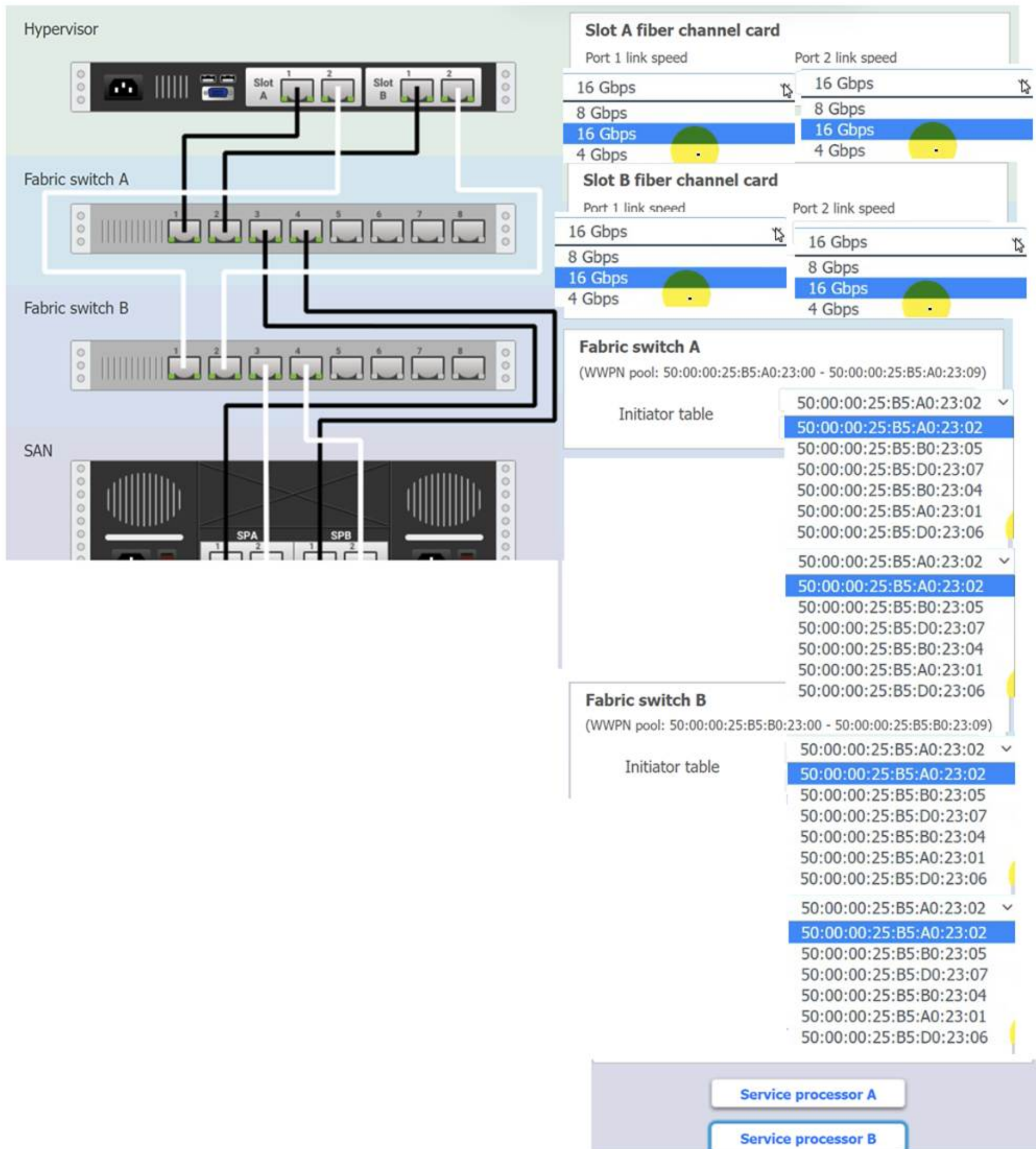
Initiator table:

- 50:00:00:25:B5:B0:23:04
- 50:00:00:25:B5:A0:23:01

**Service processor A**

**Service processor B**







## Service processor A details



"no initiators currently logged in"

|                      |        |
|----------------------|--------|
| SP-A module 0 Port 0 | 8 Gbps |
|----------------------|--------|

|                      |        |
|----------------------|--------|
| SP-A module 0 Port 1 | 8 Gbps |
|----------------------|--------|

|             |   |
|-------------|---|
| Disk groups | 1 |
|-------------|---|

|            |   |
|------------|---|
| RAID level | 5 |
|------------|---|

## Service processor B details



"50:00:00:25:B5:A0:23:02 - logged in"

"50:00:00:25:B5:B0:23:04 - logged in"

|                      |        |
|----------------------|--------|
| SP-B module 0 Port 0 | 8 Gbps |
|----------------------|--------|

|                      |        |
|----------------------|--------|
| SP-B module 0 Port 1 | 8 Gbps |
|----------------------|--------|

|             |   |
|-------------|---|
| Disk groups | 1 |
|-------------|---|

|            |   |
|------------|---|
| RAID level | 5 |
|------------|---|

- A. Mastered  
B. Not Mastered

**Answer:** A

**Explanation:**

Based on the SLA requirements and the information provided in the diagram: For the Hypervisor:

Slot A fiber channel card:

? Port 1 link speed should be set to 16 Gbps since it's connected to Fabric switch A which supports 16 Gbps.

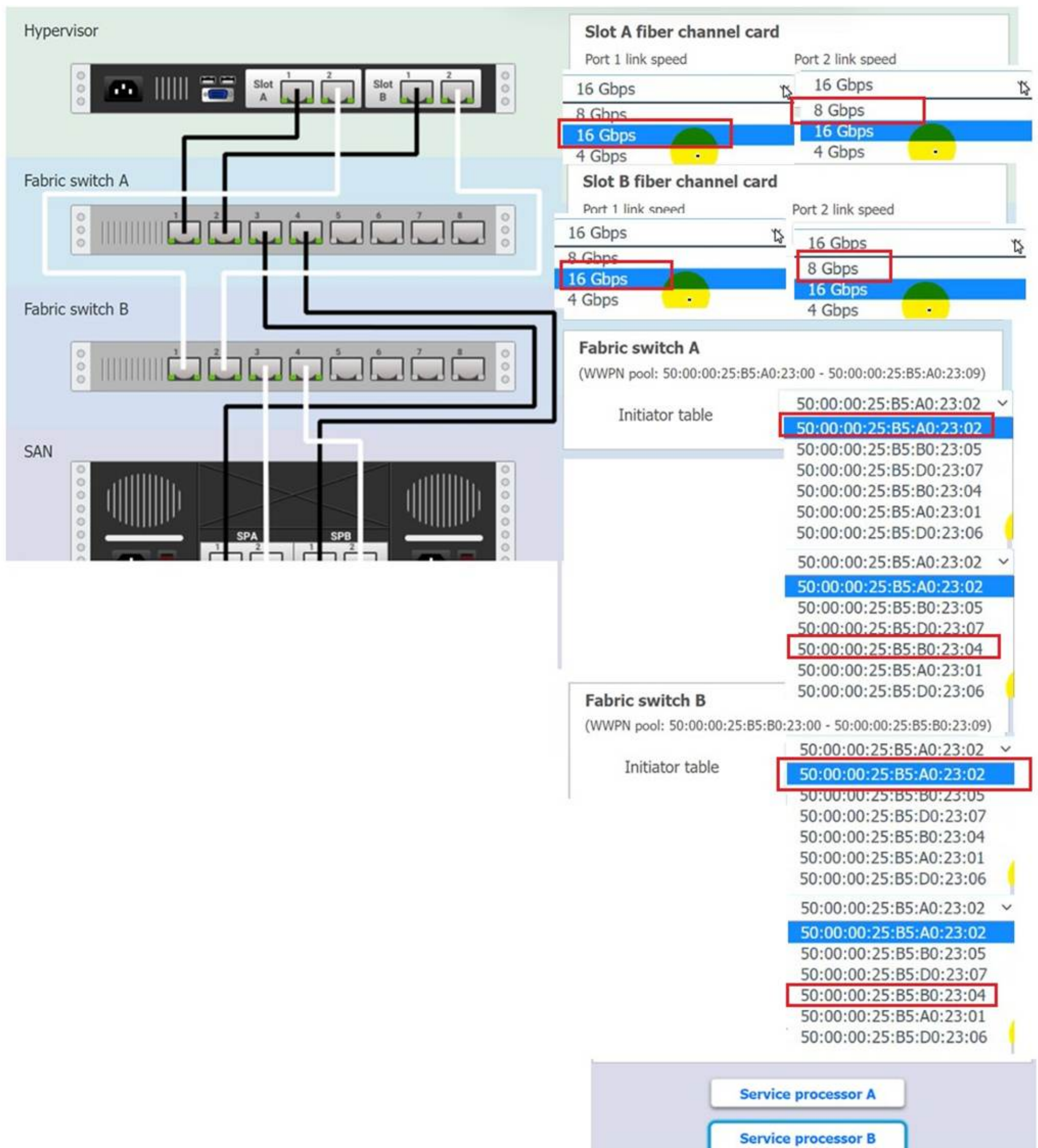
? Port 2 link speed should be set to 8 Gbps because it's connected to Fabric switch B which supports up to 8 Gbps.

Slot B fiber channel card:

? Port 1 link speed should be set to 16 Gbps since it's connected to Fabric switch A which supports 16 Gbps.

? Port 2 link speed should be set to 8 Gbps because it's connected to Fabric switch

B which supports up to 8 Gbps.



#### NEW QUESTION 84

An engineer wants to scale several cloud workloads on demand. Which of the following approaches is the most suitable?

- A. Load
- B. Scheduled
- C. Manual
- D. Trending

**Answer: A**

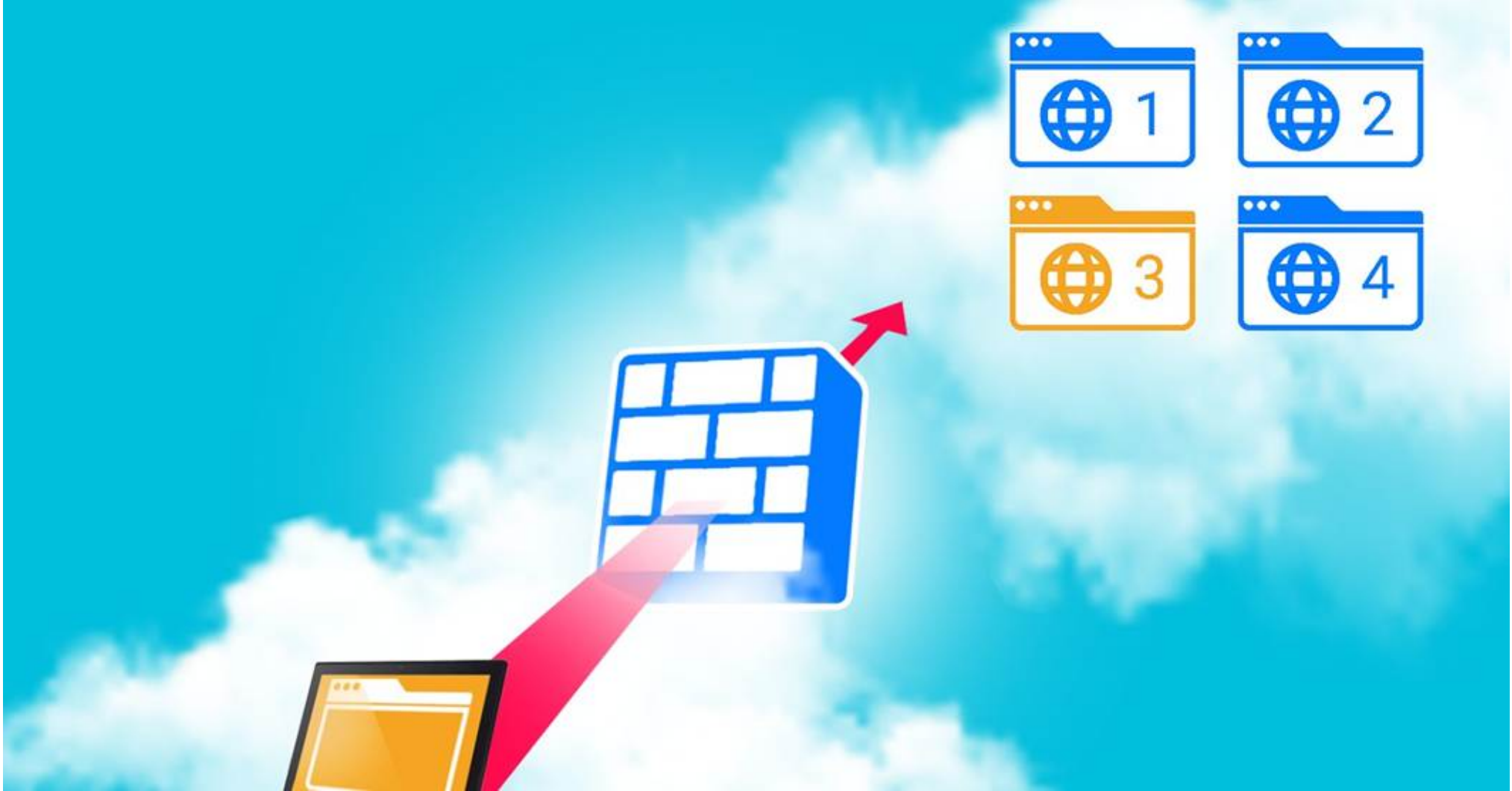
#### Explanation:

Load scaling is the most suitable approach for scaling several cloud workloads on demand. It automatically adjusts the number of active servers in a cloud environment based on the current load or traffic, ensuring that resources are efficiently utilized to meet demand without manual intervention. This approach helps maintain optimal performance and availability, particularly during unexpected surges in workload or traffic. References: Understanding cloud management and technical operations, including scaling strategies, is crucial for optimizing resource utilization and performance in cloud environments, as outlined in the CompTIA Cloud+ objectives.



NEW QUESTION 89  
SIMULATION

A company hosts various containerized applications for business uses. A client reports that one of its routine business applications fails to load the web-based login prompt hosted in the company cloud.



INSTRUCTIONS

Click on each device and resource. Review the configurations, logs, and characteristics of each node in the architecture to diagnose the issue. Then, make the necessary changes to the WAF configuration to remediate the issue.


Web app 1

| Web app 1 |          |             |          |  |
|-----------|----------|-------------|----------|--|
| SVC_Host  | SVC_Name | SVC IP      | SVC_Port |  |
| webapp1   | FIN      | 10.22.10.11 | 443      |  |

Web app 2

| Web app 2 |          |             |          |  |
|-----------|----------|-------------|----------|--|
| SVC_Host  | SVC_Name | SVC IP      | SVC_Port |  |
| webapp2   | VIDEO    | 10.22.10.21 | 443      |  |


Web app 3

| Web app 3 |          |             |          |  |
|-----------|----------|-------------|----------|---|
| SVC_Host  | SVC_Name | SVC IP      | SVC_Port |   |
| webapp3   | API      | 10.22.10.31 | 443      |   |

Web app 4

| Web app 4 |          |             |          |  |
|-----------|----------|-------------|----------|---|
| SVC_Host  | SVC_Name | SVC IP      | SVC_Port |   |
| webapp4   | CHAT     | 10.22.10.41 | 443      |   |

Client app

| Client app    |            |  |
|---------------|------------|---|
| Client laptop | App config |   |
| https_enabled | true       |   |
| cert_status   | valid      |   |
| start         | login      |   |



Client app

Client laptop

App config

Host

client142

IP

192.168.10.142

WAF

Edit config

WAF logs

| Rule ID | Description           | Service  | Action | Availability zone |
|---------|-----------------------|--|--------|-------------------|
| 1001    | Brute-force attempt   | <input type="text" value="^https://webapp[.]comptia[.]org/\$"/>                                | Block  | A                 |
| 1002    | Botnet                | <input type="text" value="^https://webapp[.]comptia[.]org/\$"/>                                | Block  | A                 |
| 1003    | API web server        | <input type="text" value="^https://webapp3[.]comptia[.]org/([0-9A-Za-z][0-9A-Za-z_?]*/*)*\$"/> | Allow  | B                 |
| 1004    | Chat web traffic      | <input type="text" value="^https://webapp4[.]comptia[.]org/chat/request[.]php\$"/>             | Allow  | B                 |
| 1005    | Finance application 1 | <input type="text" value="^https://webapp1[.]comptia[.]org/([0-9A-Za-z][0-9A-Za-z_?]*/*)*\$"/> | Allow  | B                 |
| 1006    | Finance application 2 | <input type="text" value="^https://webapp1[.]comptia[.]org/login[.]html\$"/>                   | Block  | A                 |
| 1007    | Video application     | <input type="text" value="^https://webapp2[.]comptia[.]org/video/stream\$"/>                   | Allow  | A                 |

WAF

Edit config

WAF logs

...

Dec 12 21:50:45 10.1.105.1 CEF:0|Sec|Gateway|1.0|WAF|WAF\_INSPECT|5|src=192.168.11.129 spt=39110 method=POST request="PASS991!!" msg=Unauthorized content. cn1=2002 cn2=104 cs1= cs2= cs3= cs4=ALERT cs5=2020 act=blocked

Dec 12 22:20:17 10.1.105.1 CEF:0|Sec|Gateway|1.0|WAF|WAF\_STARTURL|6|src=192.168.10.142 spt=48909 method=GET request=https://webapp1.comptia.org/FIN/login.html msg=Start URL Check Failed. cn1=1005 cn2=248 cs1= cs2= cs3= cs4=ALERT cs5=2020 act=blocked

Dec 12 22:23:20 10.1.105.1 CEF:0|Sec|Gateway|1.0|WAF|WAF\_STARTURL|1|src=192.168.11.129 spt=38995 method=GET request=https://webapp2.comptia.org/VIDEO/stream msg=Start URL Check Passed. cn1=1007 cn2=106 cs1= cs2= cs3= cs4=INFO cs5=2020 act=allow

Dec 12 22:23:20 10.1.105.1 CEF:0|Sec|Gateway|1.0|WAF|WAF\_STARTURL|1|src=192.168.10.142 spt=49015 method=GET request=https://webapp4.comptia.org/CHAT/request.php msg=Start URL Check Passed. cn1=1004 cn2=332 cs1= cs2= cs3= cs4=INFO cs5=2020 act=allow

Dec 12 22:25:01 10.1.105.1 CEF:0|Sec|Gateway|1.0|WAF|WAF\_URIINSPECT|2|src=192.168.10.142 spt=49117 method=GET request=https://webapp3.comptia.org/api?reqStatus=1 msg=Log sensitive request. cn1=1003 cn2=432 cs1= cs2= cs3= cs4=INFO cs5=2020 act=allow

...

Reset to Default

Save

Close

A. Mastered  
 B. Not Mastered

**Answer:** A

**Explanation:**

The issue is with Web app 1 (Finance application).

From the WAF logs, we can see that requests to <https://webapp1.comptia.org/FIN/login.html> are being blocked (Rule ID 1006). The rule is configured to block access to the finance application's login page. This corresponds to the reported issue of the web-based login prompt not loading.

To remediate the issue, the WAF configuration for Rule ID 1006 should be changed from "Block" to "Allow". This will enable the web-based login prompt to load for the client. Additionally, the client app configuration indicates that the client laptop (IP 192.168.10.142) is trying to access the service, and the WAF logs show that requests from this IP are being blocked due to the current rule set. Changing the action for Rule ID 1006 will also ensure that legitimate attempts to access the login page from this IP are not blocked.

Steps for remediation:

? Go to the WAF configuration.

? Find Rule ID 1006 for the Finance application 1.

? Change the action from "Block" to "Allow".

? Save the changes.

References:

? Web application firewall (WAF) configurations typically include rules that define which traffic should be allowed or blocked. Blocking legitimate traffic to login pages can prevent users from accessing the application, which seems to be the case here.

? Client application configurations and WAF logs provide valuable insights into the source of the traffic and the rules that are affecting it. It's important to ensure that the rules align with the intended access policies for the application.

**NEW QUESTION 93**

An administrator needs to adhere to the following requirements when moving a customer's data to the cloud:

- The new service must be geographically dispersed.
- The customer should have local access to data
- Legacy applications should be accessible.

Which of the following cloud deployment models is most suitable?

- A. On-premises
- B. Private
- C. Hybrid
- D. Public

**Answer:** C

**Explanation:**

A hybrid cloud deployment model is most suitable given the requirements. This model combines on-premises infrastructure (or private cloud) with public cloud services, providing geographic dispersion while allowing local access to data. It also facilitates the use of legacy applications that might not be well-suited for a full public cloud environment. References: The hybrid model is a fundamental concept within the CompTIA Cloud+ curriculum, under the section of Cloud Concepts, that explains deployment models.

**NEW QUESTION 98**

An administrator needs to provide a backup solution for a cloud infrastructure that enables the resources to run from another data center in case of a outage. Connectivity to the backup data center is via a third-party, untrusted network. Which of the following is the most important feature required for this solution?

- A. Deduplication
- B. Replication
- C. Compression
- D. Encryption
- E. Labeling

**Answer:** D

**Explanation:**

When backing up data that will traverse a third-party, untrusted network, encryption is the most important feature to ensure the confidentiality and integrity of the data. Encryption will protect the data from potential interception or tampering during transit to the backup data center. References: CompTIA Cloud+ Guide to Cloud Computing (ISBN: 978-1-64274-282-2)

**NEW QUESTION 103**

A cloud solutions architect needs to design a solution that will collect a report and upload it to an object storage service every time a virtual machine is gracefully or non-gracefully stopped. Which of the following will best satisfy this requirement?

- A. An event-driven architecture that will send a message when the VM shuts down to a log- collecting function that extracts and uploads the log directly from the storage volume
- B. Creating a webhook that will trigger on VM shutdown API calls and upload the requested files from the volume attached to the VM into the object-defined storage service
- C. An API of the object-defined storage service that will scrape the stopped VM disk and self-upload the required files as objects
- D. A script embedded on the stopping VM's OS that will upload the logs on system shutdown

**Answer:** A

**Explanation:**

An event-driven architecture is suited for this scenario, where an event (like a VM shutdown) triggers a function to execute specific tasks (log collection and upload). This approach is efficient and ensures that the logs are collected and uploaded to an object storage service every time the VM is stopped, regardless of whether it is a graceful or non- graceful shutdown. References: CompTIA Cloud+ Study Guide (Exam CV0-004) - Chapter on Cloud Delivery Implementations

**NEW QUESTION 107**

A software engineer is integrating an application to The cloud that is web socket based. Which of the following applications is the engineer most likely deploying?

- A. Image-sharing
- B. Data visualization
- C. Chat
- D. File transfer

**Answer:** C

**Explanation:**

A chat application is most likely to be deployed when integrating a web socket-based application to the cloud. Web sockets provide full-duplex communication channels over a single, long-lived connection, which is ideal for real-time applications like chat services that require persistent connections between the client and server for instant data exchange. References: CompTIA Cloud+ materials cover cloud networking concepts, emphasizing the importance of choosing the right technologies, like web sockets, for specific application requirements to ensure efficient and responsive cloud-based services.

**NEW QUESTION 112**

A cloud administrator shortens the amount of time a backup runs. An executive in the company requires a guarantee that the backups can be restored with no data loss. Which of the following backup features should the administrator test for?

- A. Encryption
- B. Retention
- C. Schedule
- D. Integrity

**Answer:** D

**Explanation:**

To guarantee that backups can be restored with no data loss, the administrator should test for data integrity. This ensures that the data has not been altered during the backup process and that it can be restored to its original state. References: Backup integrity is a critical aspect of data management and protection, which falls under the best practices for backups and restoration in the CompTIA Cloud+ curriculum.

**NEW QUESTION 113**

A cloud engineer was deploying the company's payment processing application, but it failed with the following error log:  
ERFOR:root: Transaction failed http 429 response, please try again Which of the following are the most likely causes for this error? (Select two).

- A. API throttling
- B. API gateway outage
- C. Web server outage
- D. Oversubscription
- E. Unauthorized access
- F. Insufficient quota

**Answer:** AF

**Explanation:**

The error "http 429 response, please try again" typically indicates API throttling, where the number of requests exceeds the rate limit set by the API provider, and insufficient quota, where the allowed number of API calls within a given timeframe has been exceeded. References: API throttling and quota management are key concepts in the management of cloud resources, as highlighted in the CompTIA Cloud+ curriculum.

**NEW QUESTION 114**

An organization's security policy states that software applications should not exchange sensitive data in cleartext. The security analyst is concerned about a software application that uses Base64 to encode credit card data. Which of the following would be the best algorithm to replace Base64?

- A. 3DES
- B. AES
- C. RC4
- D. SHA-3

**Answer:** B

**Explanation:**

AES (Advanced Encryption Standard) is the best algorithm to replace Base64 for secure data exchange. Base64 is an encoding method that is not secure by itself, as it's easily reversible. AES, on the other hand, is a widely used encryption standard that ensures data is protected and is not readable without the correct encryption key. References: Encryption standards and practices, including the use of AES for securing data, are essential knowledge in cloud security covered in CompTIA Cloud+.

**NEW QUESTION 117**

Which of the following is a direct effect of cloud migration on an enterprise?

- A. The enterprise must reorganize the reporting structure.
- B. Compatibility issues must be addressed on premises after migration.
- C. Cloud solutions will require less resources than on-premises installations.
- D. Utility costs will be reduced on premises.

**Answer:** D

**Explanation:**

Cloud migration typically results in a reduction of on-premises utility costs because the physical infrastructure requirements, such as power and cooling, are transferred to the cloud provider. This shift can lead to significant savings in utility expenses for the enterprise. References: CompTIA Cloud+ Guide to Cloud Computing (ISBN: 978-1-64274- 282-2)



**NEW QUESTION 121**

Which of the following integration systems would best reduce unnecessary network traffic by allowing data to travel bidirectionally and facilitating real-time results for developers who need to display critical information within applications?

- A. REST API
- B. RPC
- C. GraphQL
- D. Web sockets

**Answer:** D

**Explanation:**

Web sockets provide a full-duplex communication channel over a single, long-lived connection, allowing data to flow bidirectionally between a client and a server. This is ideal for real-time applications where developers need to display critical information without unnecessary network overhead, as it reduces the need for repetitive HTTP requests and allows for more efficient, instantaneous data updates and interactions.

**NEW QUESTION 124**

A company has ten cloud engineers working on different manual following is the best method to address this issue?

- A. Deployment documentation
- B. Service logging
- C. Configuration as code
- D. Change ticketing

**Answer:** C

**Explanation:**

Configuration as code is the best method to address the issue of cloud engineers working on different manual configurations. This practice allows configurations to be scripted and automated, which reduces human error, enhances consistency, and makes the deployment process more efficient and reproducible. References: Configuration as code is part of cloud deployment best practices, ensuring standardized environments, which is a key topic within the CompTIA Cloud+ curriculum.

**NEW QUESTION 127**

A SaaS provider introduced new software functionality for customers as part of quarterly production enhancements. After an update is implemented, users cannot locate certain transactions from an inbound integration. During the investigation, the application owner finds the following error in the logs:

Error: REST API - Deprecated call is no longer supported in this release.

Which of the following is the best action for the application owner to take to resolve the issue?

- A. Update the custom integration to use a supported function.
- B. Include the custom integration in the quarterly testing scope.
- C. Ask the users to monitor the quarterly updates.
- D. Revert the application to the last stable quarterly release.

**Answer:** A

**Explanation:**

The error message indicates that the SaaS provider has deprecated a function that was previously called by the custom integration. The best action for the application owner to take is to update the custom integration to use a function that is supported in the current release. This is a direct solution to the problem and ensures the custom integration conforms to the updated SaaS provider's API. References: Based on the error message provided and standard practices for dealing with deprecated API calls in a SaaS environment.

**NEW QUESTION 129**

A cloud engineer is troubleshooting a connectivity issue. The application server with IP 192.168.1.10 in one subnet is not connecting to the MySQL database server with IP 192.168.2.20 in a different subnet. The cloud engineer reviews the following information: Application Server Stateful Firewall

| Inbound rules  | Outbound rules  |
|----------------|-----------------|
| PERMIT ANY 443 | PERMIT ANY 443  |
| DENY ANY ANY   | PERMIT ANY 3306 |
|                | PERMIT ANY 53   |
|                | DENY ANY ANY    |



#### Application Server Subnet Routing Table

| Destination    | Gateway     |
|----------------|-------------|
| default        | 192.168.1.1 |
| 192.168.1.0/24 | local       |

#### MySQL Server Stateful Firewall

| Inbound rules               | Outbound rules |
|-----------------------------|----------------|
| PERMIT 192.168.1.10/32 3306 | DENY ANY ANY   |
| DENY ANY ANY                |                |

#### MySQL Server Subnet Routing Table

| Destination    | Gateway     |
|----------------|-------------|
| 192.168.2.0/24 | 192.168.1.1 |
| 192.168.1.0/24 | local       |

Which of the following should the cloud engineer address to fix the communication issue?

- A. The Application Server Stateful Firewall
- B. The Application Server Subnet Routing Table
- C. The MySQL Server Stateful Firewall
- D. The MySQL Server Subnet Routing Table

**Answer:** C

#### Explanation:

The connectivity issue between the application server and the MySQL database server in different subnets is likely due to the MySQL Server Stateful Firewall's inbound rules. The application server has an IP of 192.168.1.10, but the MySQL server's inbound rules only permit IP 192.168.1.10/32 on port 3306. This rule allows only a single IP address (192.168.1.10) to communicate on port 3306, which is typical for MySQL. However, if the application server's IP is not 192.168.1.10 or the application is trying to communicate on a different port, it would be blocked. To fix the communication issue, the cloud engineer should address the inbound rules on the MySQL Server Stateful Firewall to ensure that the application server's IP address and the required port are allowed. References: Based on the information provided in the question and general networking principles.

#### NEW QUESTION 133

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?

- A. Apply the minor updates and then restart the machine before applying the major update.
- B. During off hours, decommission the machine and create a new one directly on major update 4.6.0.
- C. Stop the service and apply the major updates directly.
- D. Create a test environment and apply the major update

**Answer:** D

#### Explanation:

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. References: 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.

#### NEW QUESTION 134

A cloud security analyst is concerned about security vulnerabilities in publicly available container images. Which of the following is the most appropriate action for the analyst to recommend?

- A. Using CIS-hardened images
- B. Using watermarked images
- C. Using digitally signed images
- D. Using images that have an application firewall

**Answer:** A

#### NEW QUESTION 135

A cloud engineer is reviewing a disaster recovery plan that includes the following requirements:

- System state, files, and configurations must be backed up on a weekly basis.
- The system state, file, and configuration backups must be tested annually.

Which of the following backup methods should the engineer implement for the first week the plan is executed?

- A. Differential
- B. Incremental
- C. Snapshot
- D. Full

**Answer:** D

#### Explanation:

A full backup method should be implemented for the first week the disaster recovery plan is executed. This will ensure that a complete copy of the system state, files, and configurations are backed up. Subsequent backups can be differential or incremental as per the plan. References: Backup methodologies, including the importance of full backups, are part of the data management strategies in cloud computing covered in the CompTIA Cloud+ certification.

#### NEW QUESTION 136

A cloud engineer hardened the WAF for a company that operates exclusively in North America. The engineer did not make changes to any ports, and all protected applications have continued to function as expected. Which of the following configuration changes did the engineer most likely apply?

- A. The engineer implemented MFA to access the WAF configurations.
- B. The engineer blocked all traffic originating outside the region.
- C. The engineer installed the latest security patches on the WAF.
- D. The engineer completed an upgrade from TLS version 1.1 to version 1.3.

**Answer:** B

#### Explanation:

Given that the WAF was hardened without changing any ports and all protected applications continued to function as expected, it is most likely that the engineer blocked all traffic originating outside of North America, which is the company's operating region. References: CompTIA Cloud+ Study Guide (Exam CV0-004) - Chapter on Cloud Security Best Practices

#### NEW QUESTION 137

Which of the following is used to detect signals and measure physical properties, such as the temperature of the human body?

- A. Beacon
- B. Transmission protocols
- C. Sensors
- D. Gateways

**Answer:** C

#### Explanation:

Sensors are used to detect signals and measure physical properties, such as temperature. They are devices that respond to a physical stimulus (like heat, light, sound, pressure, magnetism, or a particular motion) and transmit a resulting impulse for detection and measurement. References: The use of sensors in cloud environments, particularly in IoT (Internet of Things) applications, is included in the technical domains of the CompTIA Cloud+ material.

#### NEW QUESTION 138

Which of the following cloud-native architecture designs is the most easily maintained, decentralized, and decoupled?

- A. Monolithic
- B. Hybrid cloud
- C. Mainframe
- D. Microservices

**Answer:** D

#### Explanation:

Microservices architecture is a design approach to build a single application as a suite of small services, each running in its own process and communicating with lightweight mechanisms, often an HTTP resource API. This design is decentralized and each service is fully decoupled, allowing for easier maintenance and scaling. Each microservice is built around a specific business capability and can be deployed independently, unlike monolithic architectures that are typically centralized and less flexible. References: CompTIA Cloud+ Study Guide (Exam CV0-004) - Chapter on Designing a Cloud Environment

#### NEW QUESTION 140

A cloud security analyst is looking for existing security vulnerabilities on software applications. Which of the following describes this vulnerability management phase?

- A. Analyze
- B. Report
- C. Remediation
- D. identification

**Answer:** D

#### Explanation:

The phase of vulnerability management that involves looking for existing security vulnerabilities on software applications is known as 'Identification'. This step precedes analysis, reporting, and remediation, focusing on discovering known and unknown vulnerabilities within the system or software to assess the security posture effectively.

#### NEW QUESTION 143

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

- 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. References: CompTIA Cloud+ Certification Study Guide (Exam CV0-004) by Scott Wilson and Eric Vanderburg.

**NEW QUESTION 148**

The company's IDS has reported an anomaly. The cloud engineer remotely accesses the cloud instance, runs a command, and receives the following information:

```
UID    PID    PPID    CMD
0      987    1       sshd /usr/sbin/sshd -D [listener] 0 of 10-100
        startups
0      915    915     sshd: su seceng
0      45078 987     sshd: seceng [priv]
1000   45418 45078   sshd: seceng @pts/0
1000   45419 45418   -bash
1000   45440 45419   ps -elf
0      50596 1       /usr/sbin/apache2 -k start
65535 50597 50596   /usr/sbin/apache2 -k start
0      50612 50597   /var/www/command.py
```

Which of the following is the most likely root cause of this anomaly?

- A. Privilege escalation
- B. Leaked credentials
- C. Cryptojacking
- D. Defaced website

**Answer:** A

**Explanation:**

The output from the 'ps' command indicates there is a process running under the UID (User ID) of 0, which is the root user, and the command that was run is '/var/www/command.py'. Given that the normal Apache processes are running under their own UID (65535), this suggests that a command was executed with root privileges that typically should not have such high-level access. This is a strong indicator of privilege escalation, where an unauthorized user or process gains elevated access to resources that are normally protected from an application or user. References: CompTIA Cloud+ Certification Study Guide (Exam CV0-004) by Scott Wilson and Eric Vanderburg

**NEW QUESTION 152**

An administrator used a script that worked in the past to create and tag five virtual machines. All of the virtual machines have been created: however, the administrator sees the following results:

```
{ tags: [] }
```

Which of the following is the most likely reason for this result?

- A. API throttling
- B. Service quotas
- C. Command deprecation
- D. Compatibility issues

**Answer:** C

**Explanation:**

The most likely reason for the script creating virtual machines without tags, despite working in the past, is command deprecation. Cloud service providers update their APIs and CLI commands over time, and a previously used command to tag resources might no longer be valid. References: Understanding cloud service APIs and the importance of keeping up with updates is part of cloud technical operations covered in CompTIA Cloud+.

**NEW QUESTION 156**

Which of the following describes what CRUD is typically used for?

- A. Relational databases
- B. Time series databases
- C. Graph databases
- D. NoSQL databases

**Answer:** A

**Explanation:**

CRUD stands for Create, Read, Update, Delete, and it is most commonly used for interacting with relational databases. These operations form the basis of persistent storage manipulation in most applications that use a database to store data. References: CompTIA Cloud+ Guide to Cloud Computing (ISBN: 978-1-64274-282-2)

#### NEW QUESTION 160

A cloud engineer wants to implement a monitoring solution to detect cryptojacking and other cryptomining malware on cloud instances. Which of the following metrics would most likely be used to identify the activity?

- A. Disk I/O
- B. Network packets
- C. Average memory utilization
- D. Percent of CPU utilization

**Answer:** D

#### Explanation:

To detect cryptojacking and other cryptomining malware on cloud instances, monitoring the percent of CPU utilization is most effective. Cryptomining malware typically consumes a significant amount of CPU resources for mining operations, leading to unusually high CPU usage. Monitoring and analyzing CPU utilization metrics can help identify instances of cryptojacking by highlighting abnormal levels of resource consumption. References: Understanding management and technical operations in cloud environments, as outlined in the CompTIA Cloud+ objectives, includes the use of monitoring solutions to detect and respond to security threats like cryptomining malware, ensuring the integrity and performance of cloud resources.

#### NEW QUESTION 164

A cloud engineer wants containers to run the latest version of a container base image to reduce the number of vulnerabilities. The applications in use require Python 3.10 and are not compatible with any other version. The containers' images are created every time a new version is released from the source image. Given the container Dockerfile below:

```
FROM cgr.dev/chainguard/python:3.10
WORKDIR /myapp
COPY main.py ./
ENTRYPOINT ["python", "/myapp/main.py"]
```

Which of the following actions will achieve the objectives with the least effort?

- A. Perform docker pull before executing docker run.
- B. Execute docker update using a local cron to get the latest container version.
- C. Change the image to use python:latest on the image build process.
- D. Update the Dockerfile to pin the source image version.

**Answer:** A

#### Explanation:

Performing a "docker pull" before executing "docker run" ensures that the latest version of the container base image is used, aligning with the objective of reducing vulnerabilities. This command fetches the latest image version from the repository, ensuring that the container runs the most up-to-date and secure version of the base image. This approach is efficient and requires minimal effort, as it automates the process of maintaining the latest image versions for container deployments. References: Within the CompTIA Cloud+ examination scope, understanding management and technical operations in cloud environments, including container management and security, is critical. This includes best practices for maintaining up-to-date container images to minimize vulnerabilities.

#### NEW QUESTION 168

Which of the following is an auditing procedure that ensures service providers securely manage the data to protect the interests of the organization and the privacy of its clients?

- A. CIS
- B. ITIL
- C. SOC2
- D. ISO 27001

**Answer:** C

#### Explanation:

SOC2 (Service Organization Control 2) is an auditing procedure that ensures service providers securely manage data to protect the interests of an organization and the privacy of its clients. SOC2 is specifically designed for service providers storing customer data in the cloud, making it pertinent for data management and privacy. References: SOC2 and its role in auditing and ensuring secure data management by cloud service providers are part of the compliance standards and regulations included in the CompTIA Cloud+ certification material.

#### NEW QUESTION 173

An organization's internal security team mandated that public cloud resources must be accessible only by a corporate VPN and not by direct public internet access. Which of the following would achieve this objective?

- A. WAF
- B. ACL
- C. VPC
- D. SSH

**Answer:** C

#### Explanation:

A Virtual Private Cloud (VPC) allows users to create a secluded section of the public cloud where resources can be launched in a defined virtual network. This



enables an organization to have a section of the cloud that is secured and isolated from the public internet, thus, access to public cloud resources can be restricted to only a corporate VPN. References: CompTIA Cloud+ Study Guide (Exam CV0-004) - Chapter on Cloud Security

#### NEW QUESTION 175

Which of the following is a field of computer science that enables computers to identify and understand objects and people in images and videos?

- A. Image reconstruction
- B. Facial recognition
- C. Natural language processing
- D. Computer vision

**Answer: D**

#### Explanation:

Computer vision is a field of computer science that enables computers to identify and understand objects and people in images and videos. It involves the development of systems that can capture and interpret visual information from the world, similar to the way humans do. References: The application of computer vision and its role in cloud services, particularly in relation to AI and machine learning capabilities, is discussed in CompTIA Cloud+.

#### NEW QUESTION 178

A company's main web application is no longer accessible via the internet. The cloud administrator investigates and discovers the application is accessible locally and only via an IP address. Which of the following was misconfigured?

- A. IP
- B. DHCP
- C. NAT
- D. DNS

**Answer: D**

#### Explanation:

When a web application is accessible locally via an IP address but not via the internet, the issue likely lies with the Domain Name System (DNS). DNS is responsible for translating domain names into IP addresses. A misconfiguration in DNS records or failure in DNS resolution can prevent users from accessing the application through its domain name, even though the application itself is running and accessible via its direct IP address. References: In the CompTIA Cloud+ curriculum, understanding cloud concepts and networking fundamentals, including DNS, is crucial for troubleshooting and ensuring applications are accessible and perform optimally in cloud environments.

#### NEW QUESTION 181

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?

- 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. References: CompTIA Cloud+ Study Guide (Exam CV0-004) by Todd Montgomery and Stephen Olson

#### NEW QUESTION 184

An IT manager needs to deploy a cloud solution that meets the following requirements:

- Users must use two authentication methods to access resources.
- Each user must have 10GB of storage space by default.

Which of the following combinations should the manager use to provision these requirements?

- A. OAuth 2.0 and ephemeral storage
- B. OIDC and persistent storage
- C. MFA and storage quotas
- D. SSO and external storage

**Answer: C**

#### Explanation:

The combination that should be used to provision the requirements of two authentication methods and 10GB of storage space by default for each user is Multi-Factor Authentication (MFA) and storage quotas. MFA provides an additional layer of security beyond just a username and password, and storage quotas can be used to allocate a specific amount of storage space for each user. References: CompTIA Cloud+ Study Guide (Exam CV0-004) by Todd Montgomery and Stephen Olson

#### NEW QUESTION 187

A company recently set up a CDN for its photography and image-sharing website. Which of the following is the most likely reason for the company's action?

- A. To eliminate storage costs
- B. To improve site speed
- C. To enhance security of static assets

D. To prevent unauthorized access

**Answer:** B

**Explanation:**

The most likely reason for setting up a Content Delivery Network (CDN) is to improve site speed, especially for a photography and image-sharing website. CDNs cache content at edge locations closer to end-users, significantly reducing load times for static assets like images and videos. This enhancement in speed can improve user experience and site performance.

References: CompTIA Cloud+ resources and CDN functionality

**NEW QUESTION 189**

Which of the following best explains the concept of migrating from on premises to the cloud?

- A. The configuration of a dedicated pipeline to transfer content to a remote location
- B. The creation of virtual instances in an external provider to transfer operations of selected servers into a remotely managed environment
- C. remotely managed environment
- D. The physical transportation, installation, and configuration of company IT equipment in a cloud services provider's facility
- E. The extension of company IT infrastructure to a managed service provider

**Answer:** B

**Explanation:**

Migrating from on-premises to the cloud generally involves creating virtual instances in an external provider's environment and transferring the operations of selected servers to this new, remotely managed setup. This process allows organizations to leverage the cloud provider's resources and services. References: The migration process and strategies are topics included in the Business Principles of Cloud Environments within the CompTIA Cloud+ curriculum.

**NEW QUESTION 193**

An engineer made a change to an application and needs to select a deployment strategy that meets the following requirements:

- Is simple and fast
- Can be performed on two identical platforms

Which of the following strategies should the engineer use?

- A. Blue-green
- B. Canary
- C. Rolling
- D. in-place

**Answer:** A

**Explanation:**

The blue-green deployment strategy is ideal for scenarios where simplicity and speed are crucial. It involves two identical production environments: one (blue) hosts the current application version, while the other (green) is used to deploy the new version. Once testing is completed on the green environment and it's ready to go live, traffic is switched from blue to green, ensuring a quick and efficient rollout with minimal downtime. This method allows for immediate rollback if issues arise, by simply redirecting the traffic back to the blue environment. References: CompTIA Cloud+ material emphasizes the importance of understanding various cloud deployment strategies, including blue-green, and their application in real-world scenarios to ensure efficient and reliable software deployment in cloud environments.

**NEW QUESTION 196**

A healthcare organization must follow strict compliance requirements to ensure that PII is not leaked. The cloud administrator needs to ensure the cloud email system can support this requirement Which of the following should the organization enable?

- A. IPS
- B. OLP
- C. ACL
- D. WAF

**Answer:** B

**Explanation:**

To ensure that Personally Identifiable Information (PII) is not leaked and to comply with strict healthcare regulations, the organization should enable Data Loss Prevention (DLP). DLP systems are designed to detect and prevent unauthorized access or sharing of sensitive data, making them ideal for securing PII in cloud email systems and ensuring compliance with healthcare industry standards. References: CompTIA Cloud+ content covers governance, risk, compliance, and security aspects of cloud computing, highlighting the role of DLP in safeguarding sensitive information and maintaining compliance in regulated industries like healthcare.

**NEW QUESTION 199**

A company has developed an online trading platform. The engineering team selected event-based scaling for the platform's underlying resources. The platform resources scale up with every 2,000 subscribed users. The engineering team finds out that although compute utilization is low, scaling is still occurring. Which of the following statements best explains why this is the case?

- A. Event-based scaling does not scale down resources.
- B. Event-based scaling should not be triggered at the 2,000-user frequency.
- C. Event-based scaling should not track user subscriptions.
- D. Event-based scaling does not take resource load into account.

**Answer:** D

**Explanation:**

Event-based scaling triggers based on specific events, such as the number of user subscriptions in this case. It does not necessarily account for the actual load or utilization of compute resources. This is why the platform's resources continue to scale up even though compute utilization is low; the scaling decision is being made based on the number of subscribed users rather than the current resource usage. References: CompTIA Cloud+ Certification Study Guide (Exam CV0-004) by Scott Wilson and Eric Vanderburg

#### NEW QUESTION 201

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

- 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. References: CompTIA Accessibility in IT Study Guide.

#### NEW QUESTION 205

A cloud administrator is building a company-standard VM image, which will be based on a public image. Which of the following should the administrator implement to secure the image?

- A. ACLs
- B. Least privilege
- C. Hardening
- D. Vulnerability scanning

**Answer: C**

#### Explanation:

Hardening a VM image involves implementing security measures to reduce vulnerabilities and protect against threats. This process includes removing unnecessary software, services, and permissions, ensuring that the remaining software is updated with the latest security patches, and configuring settings to enhance security. Starting with a public image, the administrator should apply hardening techniques to ensure the custom company-standard VM image is secure and resilient against attacks.

#### NEW QUESTION 208

Five thousand employees always access the company's public cloud-hosted web application on a daily basis during the same time frame. Some users have been reporting performance issues while attempting to connect to the web application. Which of the following is the best configuration approach to resolve this issue?

- A. Scale vertically based on a trend.
- B. Scale horizontally based on a schedule
- C. Scale vertically based on a load.
- D. Scale horizontally based on an event

**Answer: B**

#### Explanation:

For a web application accessed by a large number of employees daily during the same time frame, the best configuration approach to resolve performance issues is to scale horizontally based on a schedule. This means adding more server instances to handle the load during known peak times. References: Cloud resource scaling strategies, including scheduled horizontal scaling, are discussed in the CompTIA Cloud+ curriculum under cloud management and optimization.

#### NEW QUESTION 210

A cloud engineer is designing a cloud-native, three-tier application. The engineer must adhere to the following security best practices:

- Minimal services should run on all layers of the stack.
- The solution should be vendor agnostic.
- Virtualization could be used over physical hardware.

Which of the following concepts should the engineer use to design the system to best meet these requirements?

- A. Virtual machine
- B. Micro services
- C. Fan-out
- D. Cloud-provided managed services

**Answer: B**

#### Explanation:

Microservices architecture is the most suitable design principle that aligns with the security best practices mentioned. It involves developing a suite of small services, each running in its own process and communicating with lightweight mechanisms, often an HTTP resource API. This architecture minimizes the services running on each layer, allows for vendor-agnostic solutions, and is well-suited for virtualization over physical hardware. References: Microservices as an architectural approach is discussed in the context of cloud-native applications within the CompTIA Cloud+ material.

#### NEW QUESTION 211

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?

- A. Add the instruction "USER nonroot."
- B. Change the version from latest to 3.11.
- C. Remove the ENTRYPOINT instruction.
- D. Ensure myapp/main.py is owned by root.

**Answer:** A

**Explanation:**

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. References: CompTIA Cloud+ content includes security concerns, measures, and concepts for cloud operations, highlighting container security best practices such as running containers with least privilege to mitigate security risks.

**NEW QUESTION 213**

A cloud engineer wants to replace the current on-premises unstructured data storage with a solution in the cloud. The new solution needs to be cost-effective and highly scalable. Which of the following types of storage would be best to use?

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

**Answer:** C

**Explanation:**

Object storage is ideal for cost-effective and highly scalable unstructured data. It allows for the storage of massive amounts of unstructured data in a flat namespace and is not constrained by the rigid structures of file or block storage. Object storage is highly durable and designed for high levels of scalability and accessibility. References: The suitability of object storage for unstructured data and scalability is a part of cloud storage technologies covered in CompTIA Cloud+ materials.

**NEW QUESTION 214**

A company recently migrated to a public cloud provider. The company's computer incident response team needs to configure native cloud services for detailed logging. Which of the following should the team implement on each cloud service to support root cause analysis of past events? (Select two).

- A. Log retention
- B. Tracing
- C. Log aggregation
- D. Log rotation
- E. Hashing
- F. Encryption

**Answer:** AC

**Explanation:**

For detailed logging to support root cause analysis of past events, the team should implement log retention to ensure logs are kept for the necessary amount of time and log aggregation to compile logs from various sources for easier analysis and correlation. References: Log management practices, including retention and aggregation, are part of the cloud management strategies covered in the CompTIA Cloud+ curriculum, particularly in the domain of technical operations.

**NEW QUESTION 215**

A cloud service provider requires users to migrate to a new type of VM within three months. Which of the following is the best justification for this requirement?

- A. Security flaws need to be patched.
- B. Updates could affect the current state of the VMs.
- C. The cloud provider will be performing maintenance of the infrastructure.
- D. The equipment is reaching end of life and end of support.

**Answer:** D

**Explanation:**

The best justification for a cloud service provider requiring users to migrate to a new type of VM within a specific time frame is that the equipment is reaching end of life and end of support (EOL/EOS). This means that the older type of VM will no longer receive updates or support, which could include important security patches, so it is necessary to move to newer VM types to maintain security and performance. References: CompTIA Cloud+ Study Guide (Exam CV0-004) by Todd Montgomery and Stephen Olson

**NEW QUESTION 218**



A company migrated its CRM system to a SaaS solution. The security team is updating the RAG matrix for the newly migrated CRM. Given the following table:

|          | Data-center security | CRM software security | CRM server patching | CRM development life cycle |
|----------|----------------------|-----------------------|---------------------|----------------------------|
| Customer | C,I                  | I                     | A, I                | A,C,I                      |
| CSP      | R,A                  | R,A,C                 | R,C                 | R                          |

Which of the following responsibility assignments best aligns with the shared responsibility model for the new CRM?

- A. Data-center security
- B. CRM software security
- C. CRM server patching
- D. CRM development life cycle

**Answer:** A

**Explanation:**

For the newly migrated SaaS CRM, the responsibility assignment that best aligns with the shared responsibility model is data-center security. In a SaaS model, the cloud service provider (CSP) is responsible for the security of the infrastructure, including data centers, while the customer is typically responsible for the data and possibly the user access management. References: The shared responsibility model and its implications for different service models are foundational concepts included in the CompTIA Cloud+ certification, under the domain of Governance, Risk, Compliance, and Security.

**NEW QUESTION 220**

A cloud engineer is in charge of deploying a platform in an IaaS public cloud. The application tracks the state using session cookies, and there are no affinity restrictions.

Which of the following will help the engineer reduce monthly expenses and allow the application to provide the service?

- A. Resource metering
- B. Reserved resources
- C. Dedicated host
- D. Pay-as-you-go model

**Answer:** D

**Explanation:**

A pay-as-you-go model would be beneficial for the cloud engineer because it allows the application to be scaled based on demand, reducing monthly expenses since costs are only incurred for the resources actually used. Since there are no affinity restrictions and the application uses session cookies for state tracking, the pay-as-you-go model can handle fluctuating workloads without the need to pay for unused reserved resources or dedicated hosts. References: CompTIA Cloud+ Study Guide (Exam CV0-004) - Chapter on Cloud Service Models

**NEW QUESTION 223**

A company serves customers globally from its website hosted in North America. A cloud engineer recently deployed new instances of the website in the Europe region. Which of the following is the most likely reason?

- A. To simplify workflow
- B. To enhance security
- C. To reduce latency
- D. To decrease cost

**Answer:** C

**Explanation:**

The most likely reason for deploying new instances of a website in the Europe region, in addition to the ones hosted in North America, is to reduce latency for users located in Europe. By having the website's resources closer to the end-users, the data has a shorter distance to travel, resulting in faster load times and better performance. References: CompTIA Cloud+ Study Guide (Exam CV0-004) by Todd Montgomery and Stephen Olson

**NEW QUESTION 225**

A cloud engineer wants to run a script that increases the volume storage size if it is below 100GB. Which of the following should the engineer run?

- ☐ A. 

```
if [ VOL = describe_volume_size(get_volume(VM)) < 100]
    resize_size(VOL)
else
    echo "$vol is already larger than 100GB"
```
- ☐ B. 

```
if [ VOL = describe_volume_size(get_volume(VM)) + 100]
    resize_size(VOL)
else
    echo "$vol is already larger than 100GB"
```
- ☐ C. 

```
if [ VOL = describe_volume_size(get_volume(VM)) != 100]
    resize_size(VOL)
else
    echo "$vol is already larger than 100GB"
```
- ☐ D. 

```
if [ VOL = describe_volume_size(get_volume(VM)) == 100]
    resize_size(VOL)
else
    echo "$vol is already larger than 100GB"
```

- A. Option A  
B. Option B  
C. Option C  
D. Option D

**Answer:** A

**Explanation:**

The correct script is Option A, which uses a conditional test to check if the volume size is less than 100GB. If it is, then it performs a resize operation; otherwise, it outputs a message indicating the volume is already the desired size. References: CompTIA Cloud+ Study Guide (Exam CV0-004) - Chapter on Automation

**NEW QUESTION 228**

A cloud engineer is developing an operating expense report that will be used to purchase various cloud billing models for virtual machine instances. The cloud billing model must meet the following requirements:

- The instance cannot be ephemeral.
- The minimum life cycle of the instance is expected to be five years.
- The software license is charged per physical CPU count.

Which of the following models would best meet these requirements?

- A. Dedicated host  
B. Spot instance  
C. Pay-as-you-go  
D. Reserved resources

**Answer:** D

**Explanation:**

Reserved resources, or Reserved Instances, are ideal for workloads with predictable usage and a long-term commitment, such as a minimum lifecycle of five years. This model allows for significant cost savings compared to on-demand pricing, and the instance is not ephemeral, meaning it persists and is dedicated to the user for the duration of the reservation. The licensing charged per physical CPU count aligns with dedicated host or reserved instance models, but the long-term commitment points more towards reserved resources.

**NEW QUESTION 230**

Which of the following application migration strategies will best suit a customer who wants to move a simple web application from an on-premises server to the cloud?

- A. Rehost  
B. Rearchitect  
C. Refactor  
D. Retain

**Answer:** A

**Explanation:**

Rehosting, often referred to as a "lift and shift" strategy, is the best suit for a customer who wants to move a simple web application from an on-premises server to the cloud. It involves moving the application to the cloud without making significant changes, which can be a quick and cost-effective migration approach for straightforward applications. References: The various cloud migration strategies, including rehosting, are part of the knowledge base for cloud migration in the

CompTIA Cloud+ certification.

#### NEW QUESTION 231

Which of the following refers to the idea that data should stay within certain borders or territories?

- A. Data classification
- B. Data retention
- C. Data sovereignty
- D. Data ownership

**Answer:** C

#### Explanation:

Data sovereignty refers to the concept that data is subject to the laws and governance structures within the nation it is collected or stored. It implies that regardless of where a company's data is stored, the data must comply with the laws of the country where it is physically located. References: The principle of data sovereignty is a critical consideration in international cloud services and is included in the governance, risk, and compliance domain of CompTIA Cloud+.

#### NEW QUESTION 235

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?

- A. Canary
- B. Blue-green
- C. Rolling
- D. In-place

**Answer:** A

#### Explanation:

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 238

.....



## Thank You for Trying Our Product

### We offer two products:

1st - We have Practice Tests Software with Actual Exam Questions

2nd - Questions and Answers in PDF Format

### CV0-004 Practice Exam Features:

- \* CV0-004 Questions and Answers Updated Frequently
- \* CV0-004 Practice Questions Verified by Expert Senior Certified Staff
- \* CV0-004 Most Realistic Questions that Guarantee you a Pass on Your FirstTry
- \* CV0-004 Practice Test Questions in Multiple Choice Formats and Updatesfor 1 Year

**100% Actual & Verified — Instant Download, Please Click**  
**[Order The CV0-004 Practice Test Here](#)**