CV0-004 Dumps

CompTIA Cloud+

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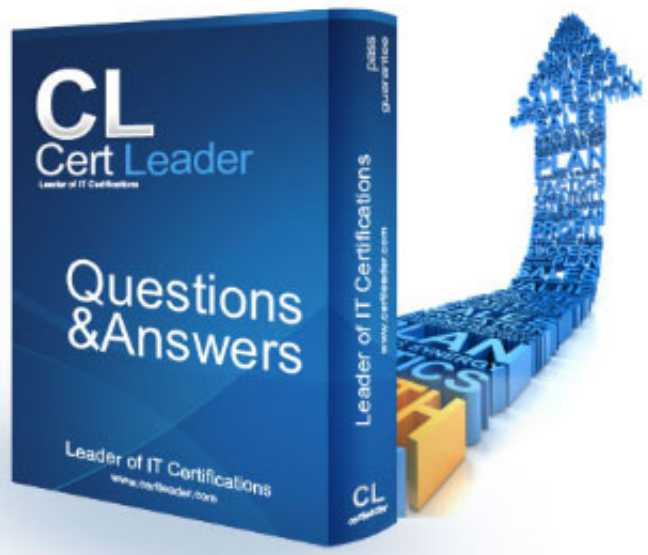


NEW QUESTION 1
A systems administrator needs to configure backups for the company's on-premises VM cluster. The storage used for backups will be constrained on free space until the company can implement cloud backups. Which of the following backup types will save the most space, assuming the frequency of backups is kept the same?

A. Snapshot
B. Ful
C. Differential
D. Incremental

Answer: D

Explanation:
An incremental backup strategy saves space because it only backs up data that has changed since the last backup. Compared to full and differential backups, incremental backups aresmaller and save more space, which is essential when storage is constrained. References: CompTIA Cloud+ Guide to Cloud Computing (ISBN: 978-1-64274-282-2)

NEW QUESTION 2
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 3
Between 11:00 a.m. and 1:00 p.m. on workdays, users report that the sales database is either not accessible, sluggish, or difficult to connect to. A cloud administrator discovers that during the impacted time, all hypervisors are at capacity. However, when 70% of the users are using the same database, those issues are not reported. Which of the following is the most likely cause?

A. Oversubscription
B. Resource allocation
C. Sizing issues
D. Service quotas

Answer: A

Explanation:
The most likely cause of accessibility and performance issues during specific times is oversubscription. This happens when more users are trying to access the database than the hypervisors can handle, due to their resources being allocated to more virtual machines or processes than they can efficiently support.References: Resource management concepts such as avoiding oversubscription are covered under the Management and Technical Operations domain of the CompTIA Cloud+ exam objectives.

NEW QUESTION 4
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 5
Which of the following is a difference between a SAN and a NAS?

A. A SAN works only with fiber-based networks.

B. A SAN works with any Ethernet-based network.
C. A NAS uses a faster protocol than a SAN
D. A NAS uses a slower protocol than a SAN.

Answer: D

Explanation:
A NAS (Network Attached Storage) typically uses file-level protocols such as NFS or SMB, which are generally considered slower and less efficient than the block-level protocols used by SANs (Storage Area Networks), such as iSCSI or Fibre Channel. SANs are designed for high performance and low latency, making them more suitable for applications requiring fast and efficient storage access.

NEW QUESTION 6
Which of the following will best reduce the cost of running workloads while maintaining the same performance? (Select two).

A. Instance size
B. Tagging
C. Reserved resources model
D. Spot instance model
E. Pay-as-you-go model
F. Dedicated host model

Answer: CD

Explanation:
The Reserved resources model offers cost savings for committed use over a long term, which can reduce costs while maintaining performance for predictable workloads. The Spot instance model allows users to take advantage of unused capacity at lower prices, offering significant cost savings, though with the possibility of instances being terminated when demand rises. Both models can be strategically used to optimize costs without compromising performance.

NEW QUESTION 7
The change control board received a request to approve a configuration change 10 deploy in the cloud production environment. Which of the following should have already been competed?

A. Penetration test
B. End-to-end security testing
C. Cost benefit analysis
D. User acceptance testing

Answer: D

Explanation:
Before a configuration change is deployed in the cloud production environment, it is crucial to conduct User Acceptance Testing (UAT). UAT involves testing the system by the end-users or clients to ensure it can handle required tasks in real-world scenarios, according to specifications. This testing is the final stage before the change is approved for production, ensuring that all functionalities meet user requirements and the system is ready for deployment.References: The CompTIA Cloud+ certification highlights the significance of various testing phases, including UAT, as part of the cloud deployment process to validate the system's readiness and functionality for end-users.

NEW QUESTION 8
A customer's facility is located in an area where natural disasters happen frequently. The customer requires the following:
• Data resiliency due to exposure to frequent natural disasters
• Data localization because of privacy regulations in the country
• High availability
Which of the following cloud resources should be provisioned to meet these requirements?

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

Answer: C

Explanation:
To meet the requirements of data resiliency, data localization, and high availability in a region prone to natural disasters, the customer should provision storage in an availability zone outside the region. This ensures that data is not affected by regional disasters and complies with data localization by remaining within the country's borders, while also providing high availability.References: Disaster recovery and high availability strategies, including the use of multiple availability zones, are discussed in the CompTIA Cloud+ certification material.

NEW QUESTION 9
A systems administrator is configuring backups on a VM and needs the process to run as quickly as possible, reducing the bandwidth on the network during all times from Monday through Saturday. In the event of data corruption, the management team expects the mean time to recovery to be as low as possible. Which of the following backup methods can the administrator use to accomplish these goals?

A. Incremental backup daily to the cloud
B. Full backup on Sunday and incremental backups on all other days of the week
C. Differential backup daily to the cloud
D. Incremental backups during off-hours on Monday, Wednesday, and Friday

Answer: B

Explanation:

To achieve a quick backup process and reduce bandwidth use, the administrator should perform a Full backup on Sunday and incremental backups on all other days of the week. This method ensures that only the changes made since the last full backup are copied, reducing the amount of data that needs to be transferred each time, and thus the time and bandwidth required.References: CompTIA Cloud+ Study Guide (Exam CV0-004) by Todd Montgomery and Stephen Olson

NEW QUESTION 10
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 10
A systems administrator notices a surge of network traffic is coming from the monitoring server. The administrator discovers that large amounts of data are being downloaded to an external source. While investigating, the administrator reviews the following logs:

Protocol	Local address	Foreign address	State
TCP	10.181.12.5:20	172.17.250.12	ESTABLISHED
TCP	10.181.12.5:22	172.32.58.39	ESTABLISHED
TCP	10.181.12.5:443	172.30.252.204	ESTABLISHED
TCP	10.181.12.5:4443	10.11.15.82	ESTABLISHED
TCP	10.181.12.5:8048	172.24.255.192	TIME_WAIT

Which of the following ports has been compromised?

A. Port 20
B. Port 22
C. Port 443
D. Port 4443
E. Port 8048

Answer: E

Explanation:
Based on the logs provided, the port that has been compromised is Port 8048. The state "TIME_WAIT" indicates that this port was recently used to establish a connection that has now ended. This could be indicative of the recent activity where large amounts of data were downloaded to an external source, suggesting a potential security breach. References: CompTIA Cloud+ Study Guide (Exam CV0-004) by Todd Montgomery and Stephen Olson

NEW QUESTION 13
An DevOps engineer is receiving reports that users can no longer access the company's web application after hardening of a web server. The users are receiving the following error:
ERR_SSLJ/ERSION_OR_CIPHER_MISMATCH.
Which of the following actions should the engineer take to resolve the issue?

A. Restart the web server.
B. Configure TLS 1.2 or newer.
C. Update the web server.
D. Review logs on the WAF

Answer: B

Explanation:
To resolve the ERR_SSL_VERSION_OR_CIPHER_MISMATCH error after hardening a web server, the engineer should configure the server to use TLS 1.2 or newer. This error often occurs when the server or client supports an outdated version of SSL/TLS or incompatible cipher suites. Updating to a modern, secure version of TLS ensures compatibility and enhances security.References: The CompTIA Cloud+ certification includes governance, risk, compliance, and security for the cloud, emphasizing the importance of implementing up-to-date security protocols like TLS to protect data in transit and ensure secure communications in cloud environments.

NEW QUESTION 15

A company runs a discussion forum that caters to global users. The company's monitoring system reports that the home page suddenly is seeing elevated response times, even though internal monitoring has reported no issues or changes. Which of the following is the most likely cause of this issue?

A. Cryptojacking
B. Human error
C. DDoS
D. Phishing

Answer: C

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

NEW QUESTION 20
Which of the following would allow a cloud engineer to flatten a deeply nested JSON log to improve readability for analysts?

A. Grafana
B. Kibana
C. Elasticsearch
D. Logstash

Answer: D

Explanation:
Logstash can be used to flatten a deeply nested JSON log, which would improve readability for analysts. Logstash is a data processing pipeline that ingests data from various sources, transforms it, and then sends it to a "stash" like Elasticsearch. References: CompTIA Cloud+ Study Guide (Exam CV0-004) - Chapter on Cloud Data Management

NEW QUESTION 24
Which of the following requirements are core considerations when migrating a small business's on-premises applications to the cloud? (Select two).

A. Availability
B. Hybrid
C. Testing
D. Networking
E. Compute
F. Logs

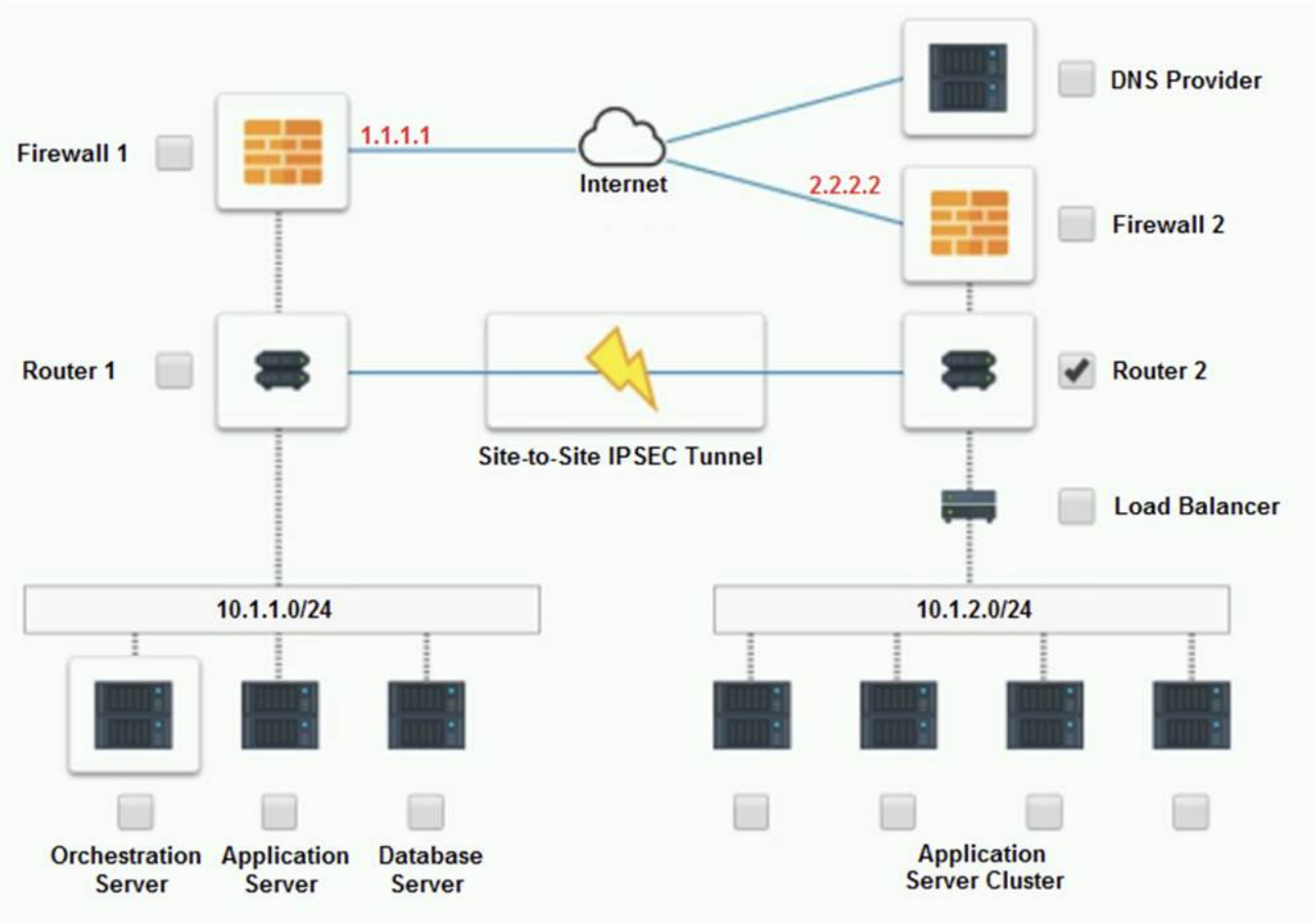
Answer: AD

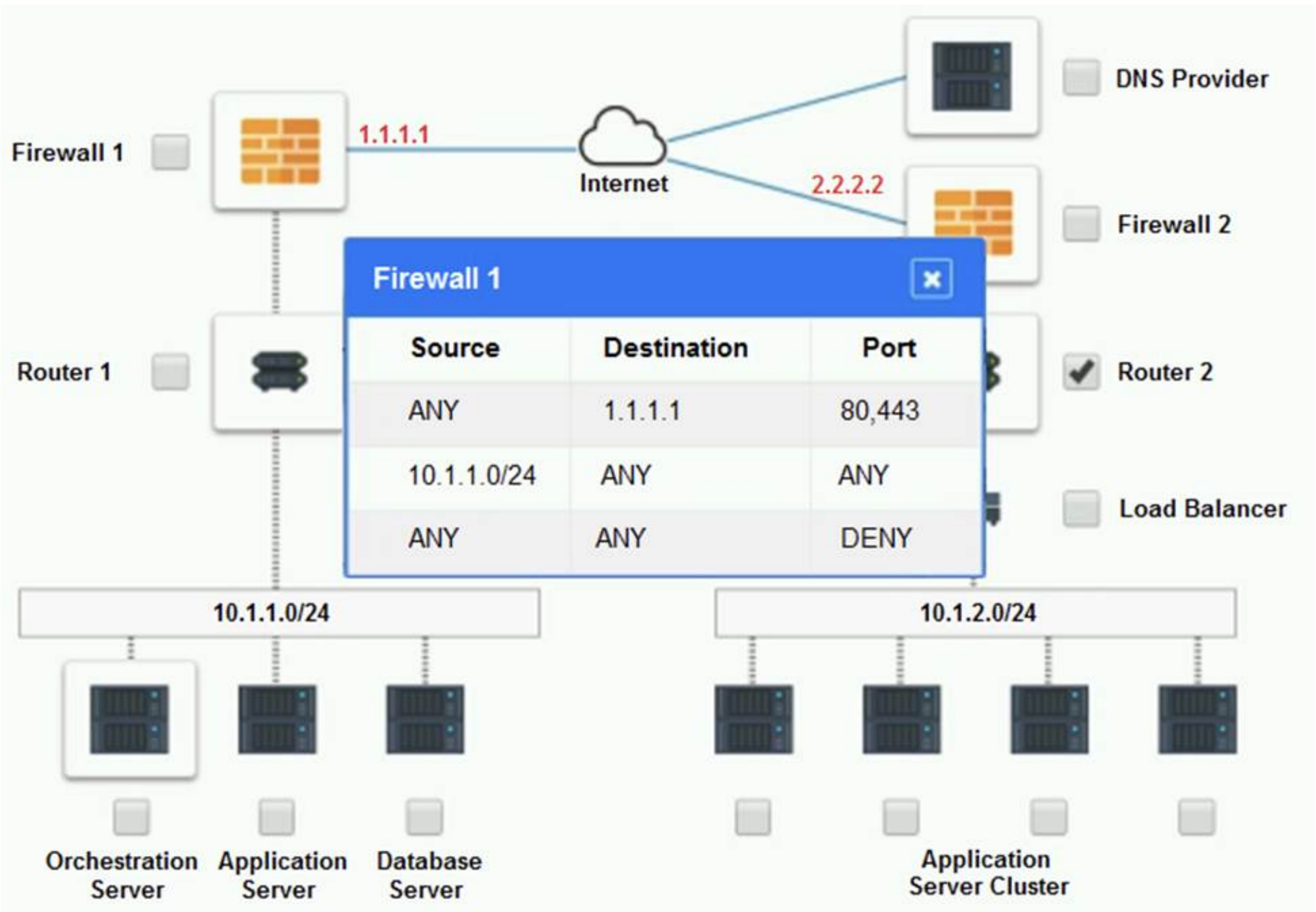
Explanation:
When migrating on-premises applications to the cloud for a small business, availability and networking are core considerations. Ensuring that applications are available and that the network is capable of handling the new cloud traffic are pivotal for a successful transition.References: The migration process and its core considerations, including availability and networking, are topics within the Business Principles of Cloud Environments in the CompTIA Cloud+ material.

NEW QUESTION 27
SIMULATION
A company has decided to scale its e-commerce application from its corporate datacenter to a commercial cloud provider to meet an anticipated increase in demand during an upcoming holiday.
The majority of the application load takes place on the application server under normal conditions. For this reason, the company decides to deploy additional application servers into a commercial cloud provider using the on-premises orchestration engine that installs and configures common software and network configurations.
The remote computing environment is connected to the on-premises datacenter via a site- to-site IPSec tunnel. The external DNS provider has been configured to use weighted round-robin routing to load balance connections from the Internet.
During testing, the company discovers that only 20% of connections completed successfully.
INSTRUCTIONS
Review the network architecture and supporting documents and fulfill these requirements: Part 1:
- Analyze the configuration of the following components: DNS, Firewall 1, Firewall 2, Router 1, Router 2, VPN and Orchestrator Server.
- Identify the problematic device(s).

Part 2:
- Identify the correct options to provide adequate configuration for hybrid cloud architecture.

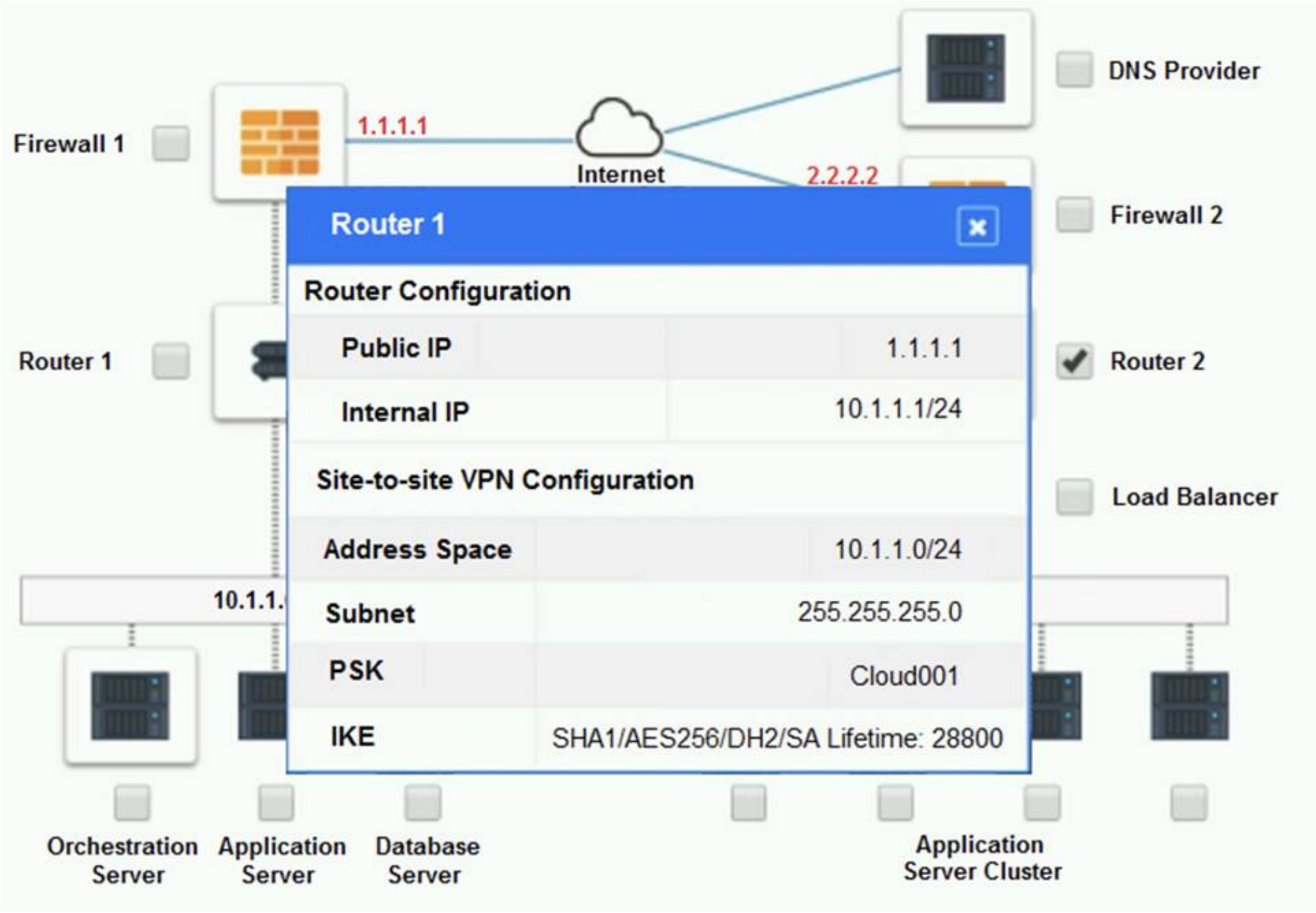
If at any time you would like to bring back the initial state of the simulation, please click the Reset All button.
Part 1:
Cloud Hybrid Network Diagram

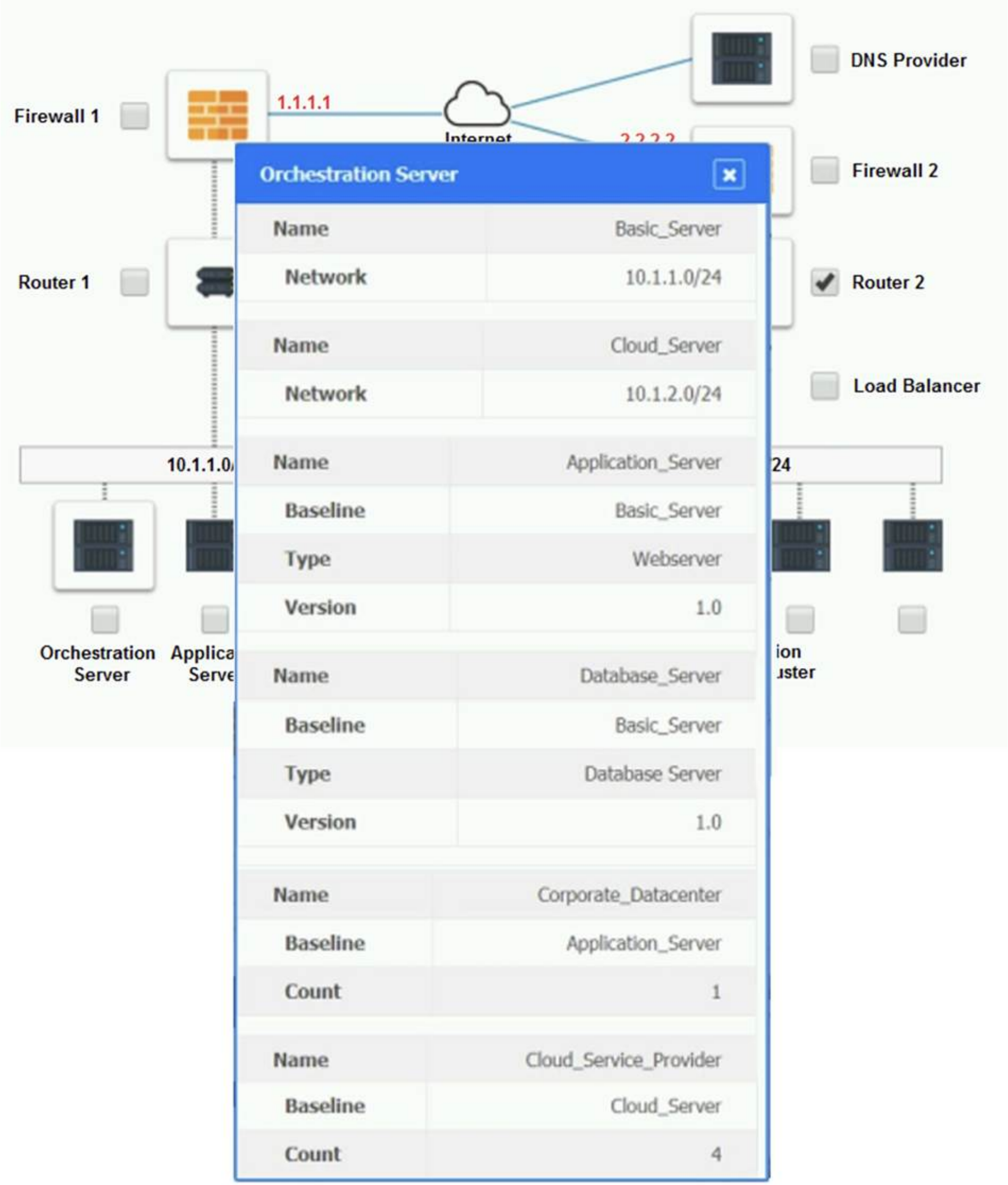


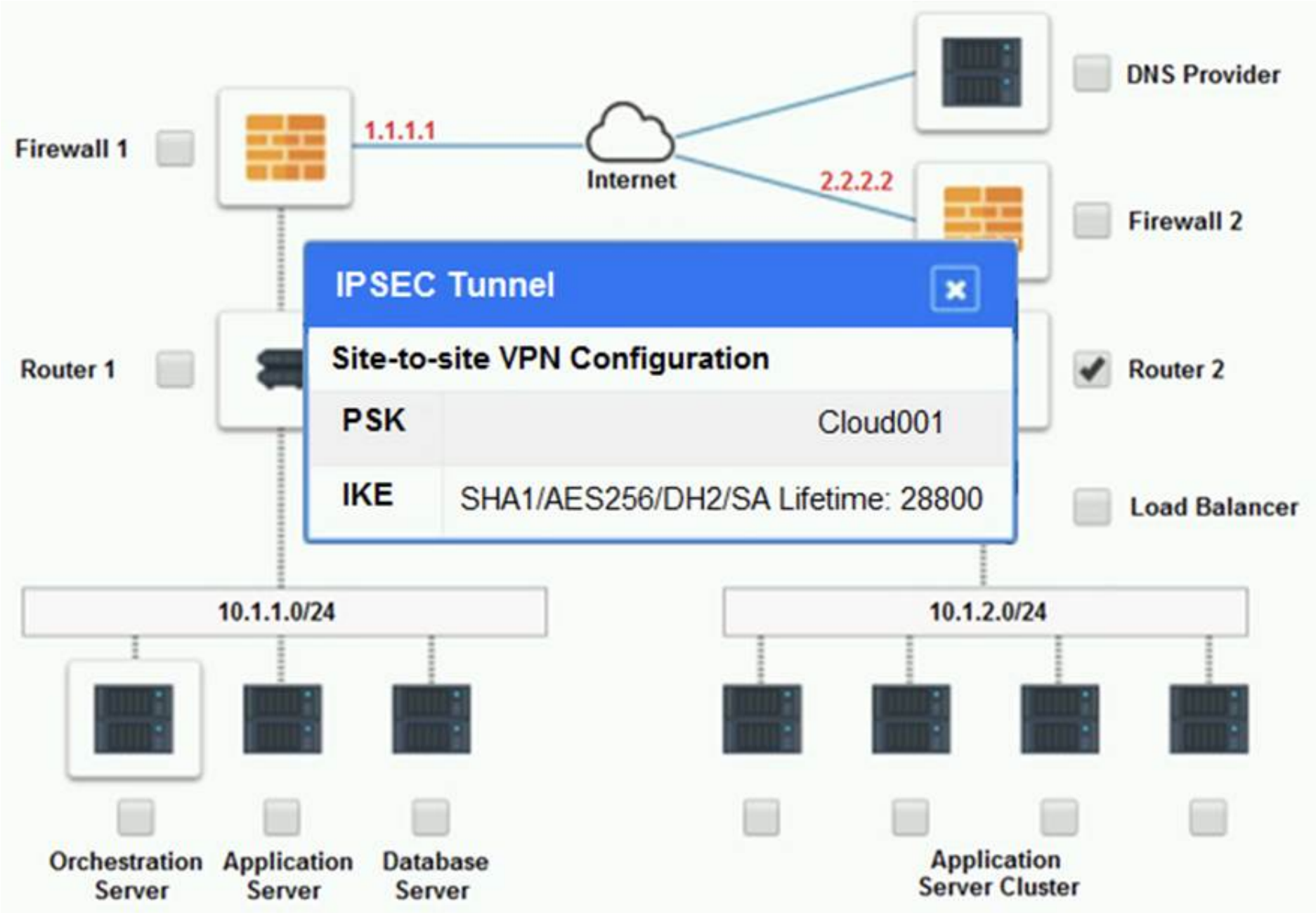


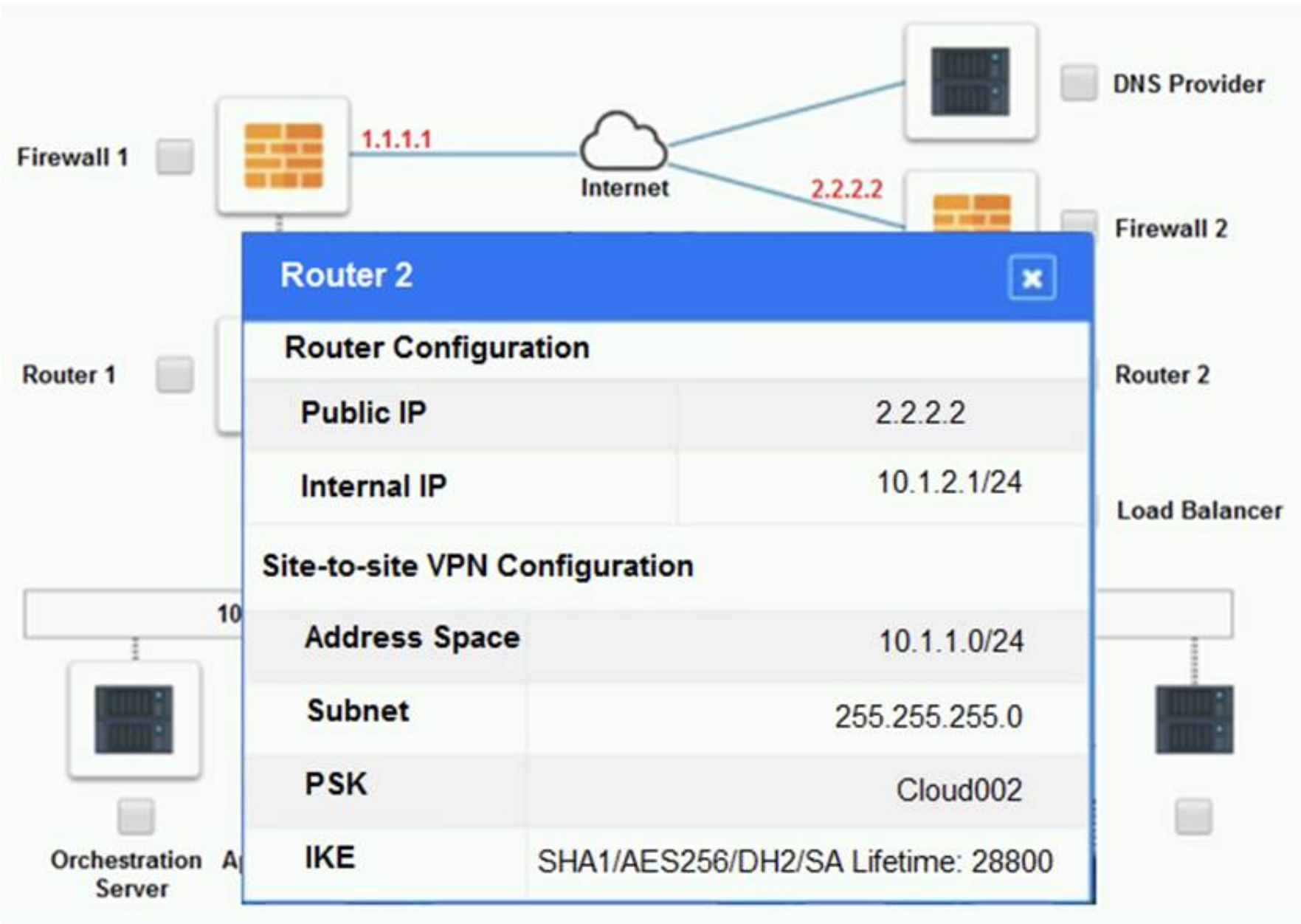
Firewall 1

Source	Destination	Port
ANY	1.1.1.1	80,443
10.1.1.0/24	ANY	ANY
ANY	ANY	DENY


DNS Provider
Firewall 1
1.1.1.1
Internet
2.2.2.2
Firewall 2
Router 1
Router 1
Router Configuration
Public IP
1.1.1.1
Internal IP
10.1.1.1/24
Router 2
Site-to-site VPN Configuration
Load Balancer
Address Space
10.1.1.0/24
10.1.1.
Subnet
255.255.255.0
PSK
Cloud001
IKE
SHA1/AES256/DH2/SA Lifetime: 28800
Orchestration Server
Application Server
Database Server
Application Server Cluster


DNS Provider
Firewall 1
1.1.1.1
Internet
Firewall 2
Router 1
Router 2
Load Balancer
10.1.1.0
24
Orchestration Server
Orchestration Server
Name Basic_Server
Network 10.1.1.0/24
Name Cloud_Server
Network 10.1.2.0/24
Name Application_Server
Baseline Basic_Server
Type Webserver
Version 1.0
Name Database_Server
Baseline Basic_Server
Type Database Server
Version 1.0
Name Corporate_Datacenter
Baseline Application_Server
Count 1
Name Cloud_Service_Provider
Baseline Cloud_Server
Count 4


DNS Provider
Firewall 1
1.1.1.1
Internet
2.2.2.2
Firewall 2
IPSEC Tunnel
Site-to-site VPN Configuration
Router 1
Router 2
PSK
Cloud001
IKE
SHA1/AES256/DH2/SA Lifetime: 28800
Load Balancer
10.1.1.0/24
10.1.2.0/24
Orchestration Server
Application Server
Database Server
Application Server Cluster


DNS Provider
Firewall 1
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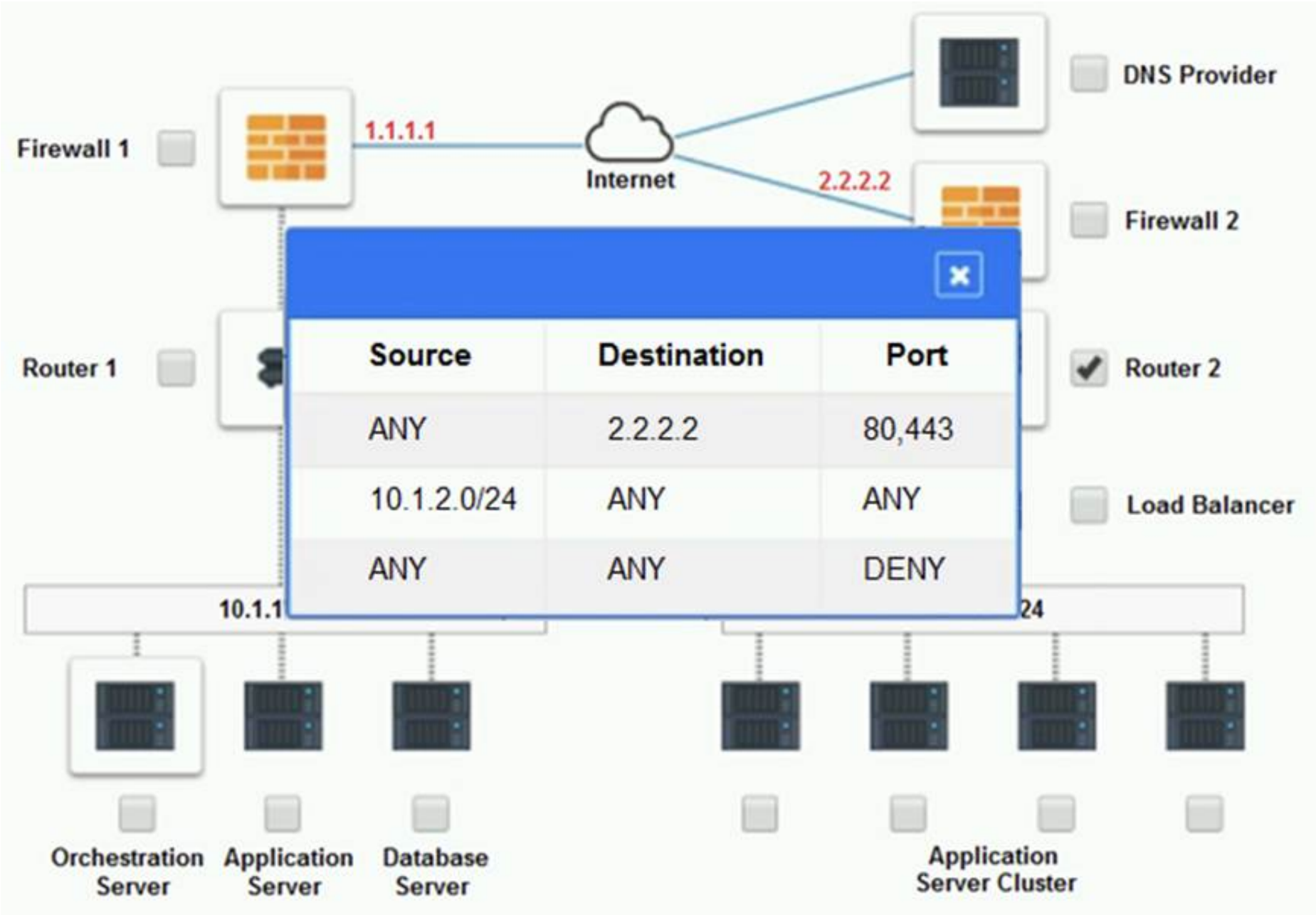
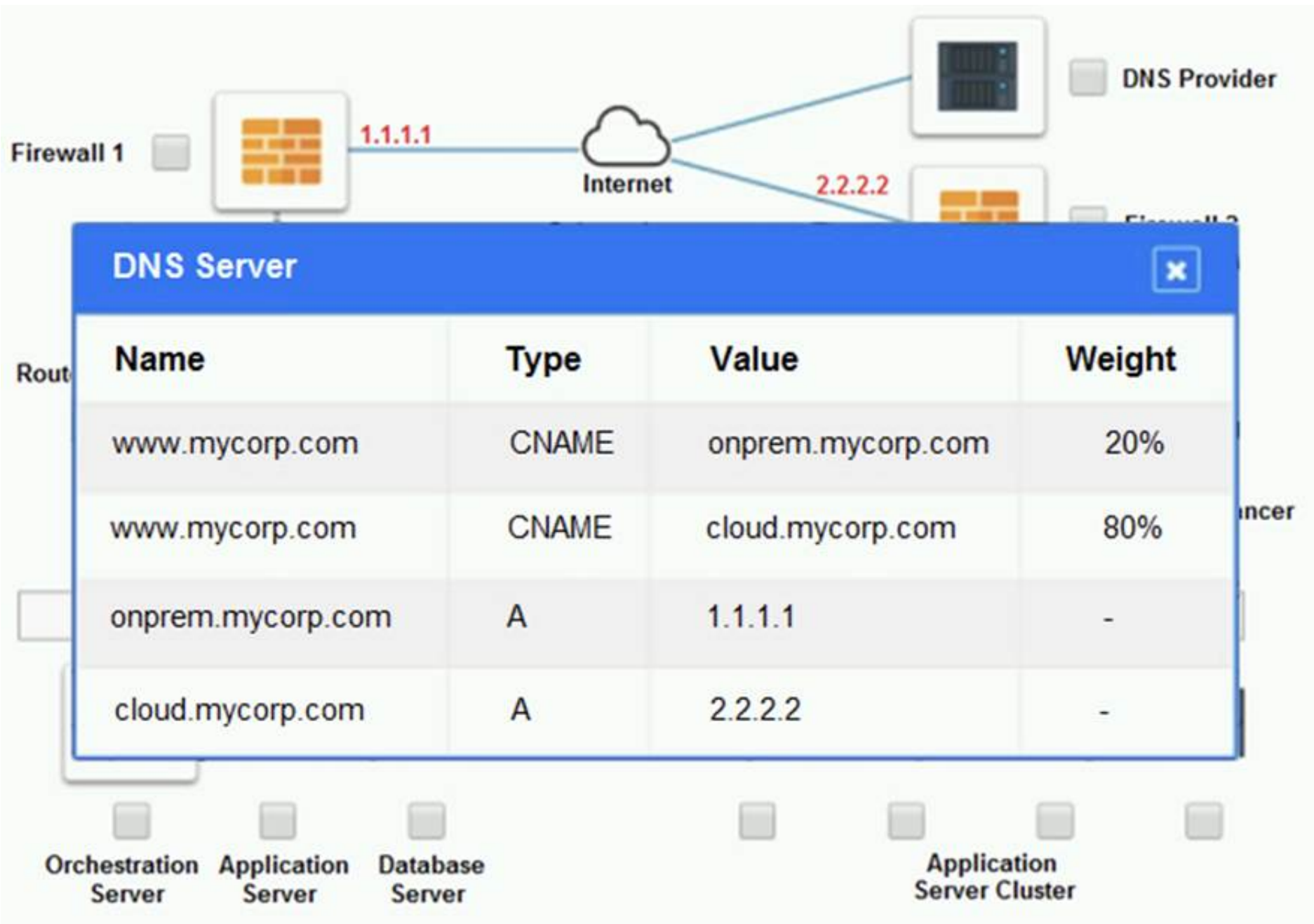
2.2.2.2
Internal IP
10.1.2.1/24
Router 1
Router 2
Load Balancer
Site-to-site VPN Configuration
Address Space
10.1.1.0/24
Subnet
255.255.255.0
PSK
Cloud002
IKE
SHA1/AES256/DH2/SA Lifetime: 28800
Orchestration Server





Part 2:
Only select a maximum of TWO options from the multiple choice question

- ☐ Deploy a Replica of the Database Server in the Cloud Provider.
- ☐ Update the PSK (Pre-shared key) in Router 2.
- ☐ Update the A record on the DNS from 2.2.2.2 to 1.1.1.1.
- ☐ Promote deny All to allow All in Firewall 1 and Firewall 2.
- ☐ Change the Address Space on Router 2.
- ☐ Change internal IP Address of Router 1.
- ☐ Reverse the Weight property in the two CNAME records on the DNS.
- ☐ Add the Application Server at on-premises to the Load Balancer.

A. Mastered
B. Not Mastered

Answer: A

Explanation:
Part 1: Router 2
The problematic device is Router 2, which has an incorrect configuration for the IPSec tunnel. The IPSec tunnel is a secure connection between the on-premises datacenter and the cloud provider, which allows the traffic to flow between the two networks. The IPSec tunnel requires both endpoints to have matching parameters, such as the IP addresses, the pre-shared key (PSK), the encryption and authentication algorithms, and the security associations (SAs) .
According to the network diagram and the configuration files, Router 2 has a different PSK and a different address space than Router 1. Router 2 has a PSK of ??1234567890??, while Router 1 has a PSK of ??0987654321??. Router 2 has an address space of 10.0.0.0/8, while Router 1 has an address space of 192.168.0.0/16. These mismatches prevent the IPSec tunnel from establishing and encrypting the traffic between the two networks.
The other devices do not have any obvious errors in their configuration. The DNS provider has two CNAME records that point to the application servers in the cloud provider, with different weights to balance the load. The firewall rules allow the traffic from and to the application servers on port 80 and port 443, as well as the traffic from and to the VPN server on port 500 and port 4500. The orchestration server has a script that installs and configures the application servers in the cloud provider, using the DHCP server to assign IP addresses.
Part 2:
The correct options to provide adequate configuration for hybrid cloud architecture are:
? Update the PSK in Router 2.
? Change the address space on Router 2.
These options will fix the IPSec tunnel configuration and allow the traffic to flow between the on-premises datacenter and the cloud provider. The PSK should match the one on Router 1, which is ??0987654321??. The address space should also match the one on Router 1, which is 192.168.0.0/16.
* B. Update the PSK (Pre-shared key in Router2)
* E. Change the Address Space on Router2

NEW QUESTION 30
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" "userl" "File transfer completed successfully."
"2022/10/21 11:21:05" "10. 25.2. 35" "104. 210.233.225" "userl" "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 34
A company is developing a new web application that requires a relational database management system with minimal operational overhead. Which of the following should the company choose?

A. A database installed on a virtual machine
B. A managed SQL database on the cloud
C. A database migration service
D. A hybrid database setup

Answer: B

Explanation:
For a new web application that requires a relational database management system with minimal operational overhead, the company should choose a managed SQL database on the cloud. Managed databases provide automated backups, patching, and other management tasks, reducing the administrative burden.References: The use of managed services, like managed databases, to minimize operational overhead is a strategic decision in cloud computing covered in CompTIA Cloud+.

NEW QUESTION 36
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 41
An administrator is creating a cron job that shuts down the virtual machines at night to save on costs. Which of the following is the best way to achieve this task?
A)

```
for X in list_vms() do
if [ describe_vm_status(X) || running]
     shutdown_vm(X)
else
     echo "vm $X stopped"
done
```

B)

```
for X in list_vms() do
if [ describe_vm_status(X) > running]
     shutdown_vm(X)
else
     echo "vm $X stopped"
done
```

C)

```
for X in list_vms() do
if [ describe_vm_status(X) == running]
     shutdown_vm(X)
else
     echo "vm $X stopped"
done
```

D)

```
for X in list_vms() do
if [ describe_vm_status(X) != running]
     shutdown_vm(X)
else
     echo "vm $X is stopped"
done
```

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

Answer: C

Explanation:
Option C is the correct script for shutting down virtual machines that are currently running. It iterates through a list of VMs, checks if the status of each VM is 'running', and if so, proceeds to shut down the VM. The script then prints a message stating that the VM has been stopped. This approach ensures that only VMs that are actively running are targeted for shutdown, optimizing resource utilization and cost savings.

NEW QUESTION 45
Which of the following cloud deployment strategies is best for an organization that wants to run open-source workloads with other organizations that are sharing the cost?

A. Community
B. Public
C. Hybrid
D. Private

Answer: A

Explanation:
A community cloud deployment strategy is best for an organization that wants to run open-source workloads with other organizations while sharing the cost. Community clouds are collaborative efforts where infrastructure is shared between several organizations with common concerns, which could be regulatory, security, or compliance- related.References: The concept of community clouds is discussed in the domain of Cloud Concepts within the CompTIA Cloud+ exam objectives.

NEW QUESTION 50
A company wants to optimize cloud resources and lower the overhead caused by managing multiple operating systems. Which of the following compute resources would be best to help to achieve this goal?

A. VM
B. Containers
C. Remote desktops
D. Bare-metal servers

Answer: B

Explanation:
Containers are the best compute resources to optimize cloud resources and lower the overhead caused by managing multiple operating systems. Containers encapsulate applications and their dependencies into a single executable package, running on a shared OS kernel, which reduces the need for separate operating systems for each application and simplifies resource management.References: CompTIA Cloud+ materials discuss management and technical operations in cloud environments, including the use of containers to improve resource utilization and operational efficiency by minimizing the overhead associated with traditional VMs.

NEW QUESTION 53
A cloud solution needs to be replaced without interruptions. The replacement process can be completed in phases, but the cost should be kept as low as possible. Which of the following is the best strategy to implement?

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

Answer: B

Explanation:
A rolling strategy is the best to implement when needing to replace a cloud solution without interruptions and keeping costs low. This approach updates or replaces parts of the system gradually with minimal downtime and allows for a phased implementation. References: CompTIA Cloud+ Study Guide (Exam CV0-004) - Chapter on Cloud Deployment and Provisioning

NEW QUESTION 57
A cloud engineer wants to implement a disaster recovery strategy that:
. Is cost-effective.
. Reduces the amount of data loss in case of a disaster.
. Enables recovery with the least amount of downtime.
Which of the following disaster recovery strategies best describes what the cloud engineer wants to achieve?

A. Cold site
B. Off site
C. Warm site
D. Hot site

Answer: D

Explanation:
A hot site is a disaster recovery strategy that is cost-effective, minimizes data loss, and allows for the fastest recovery time in case of a disaster. It is an exact replica of the original site of the organization, with full computer systems as well as near-complete backups of user data. Hot sites are operational 24/7 and can take over functionality from the primary site immediately or with minimal delay. References: CompTIA Cloud+ Study Guide (Exam CV0-004) - Chapter on Disaster Recovery

NEW QUESTION 58
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 62
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 computeresources 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

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

A. Code drifting
B. Code control
C. Code testing
D. Code versioning

Answer: D

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

NEW QUESTION 68
Which of the following is a customer be responsible for in a provider-managed database service? (Select two).

A. Operating system patches
B. Table-level permissions
C. Minor database engine updates
D. Cluster configuration
E. Row-level encryption
F. Availability of hardware for scaling

Answer: BE

Explanation:
In a provider-managed database service, the cloud provider typically manages the infrastructure, operating system, and database engine updates. However, the customer is responsible for the data and its security within the database, which includes setting table- level permissions and row-level encryption to ensure that data access and security is managed appropriately. References: CompTIA Cloud+ Guide to Cloud Computing (ISBN: 978-1-64274-282-2)

NEW QUESTION 73
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 76
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 81
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 83
A customer is migrating applications to the cloud and wants to grant authorization based on the classification levels of each system. Which of the following should the customer implement to ensure authorisation to systems is granted when the user and system classification properties match? (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.

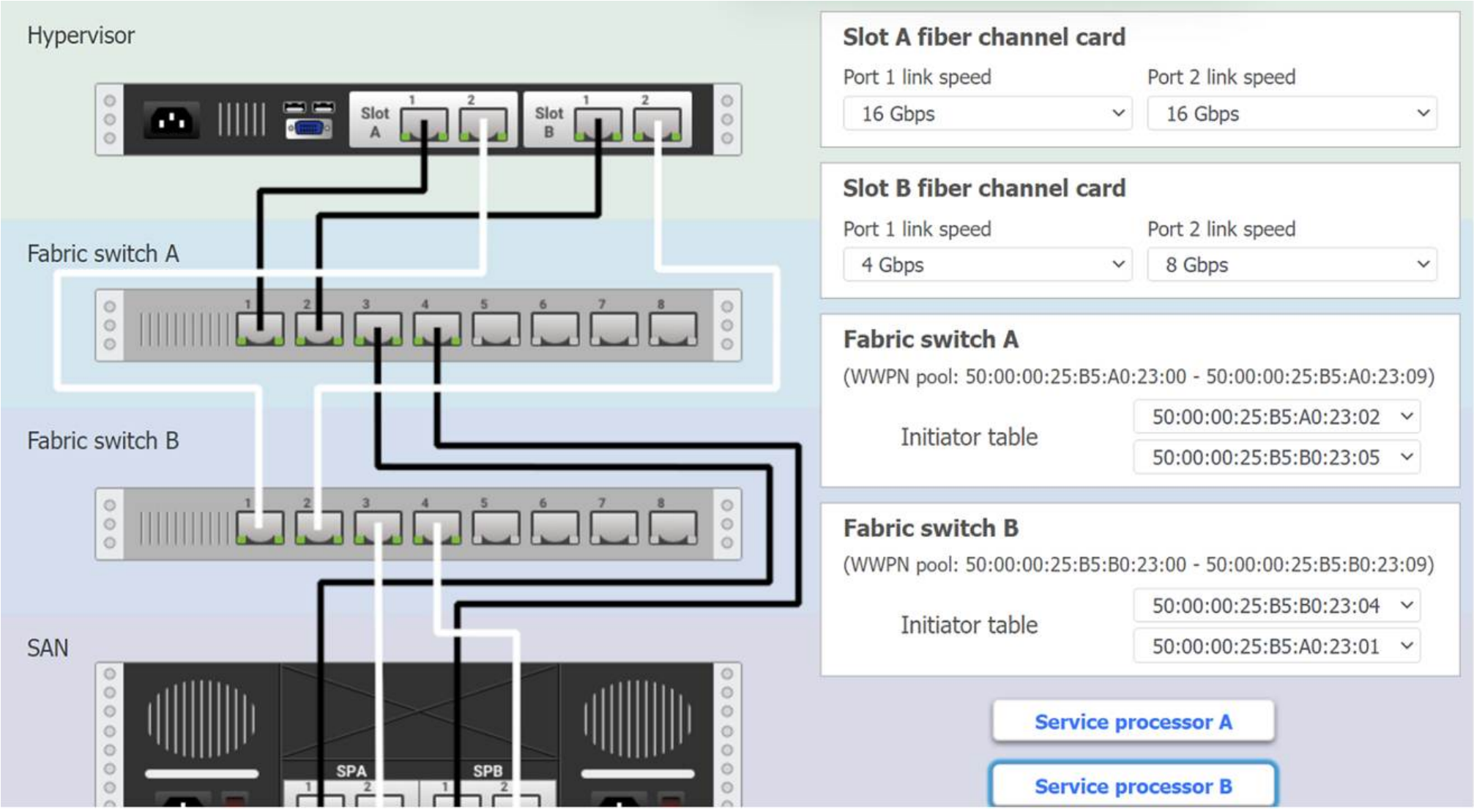
NEW QUESTION 86
A company operates a website that allows customers to upload, share, and retain tull ownership of their photographs. Which of the following could affect image ownership as the website usage expands globally?

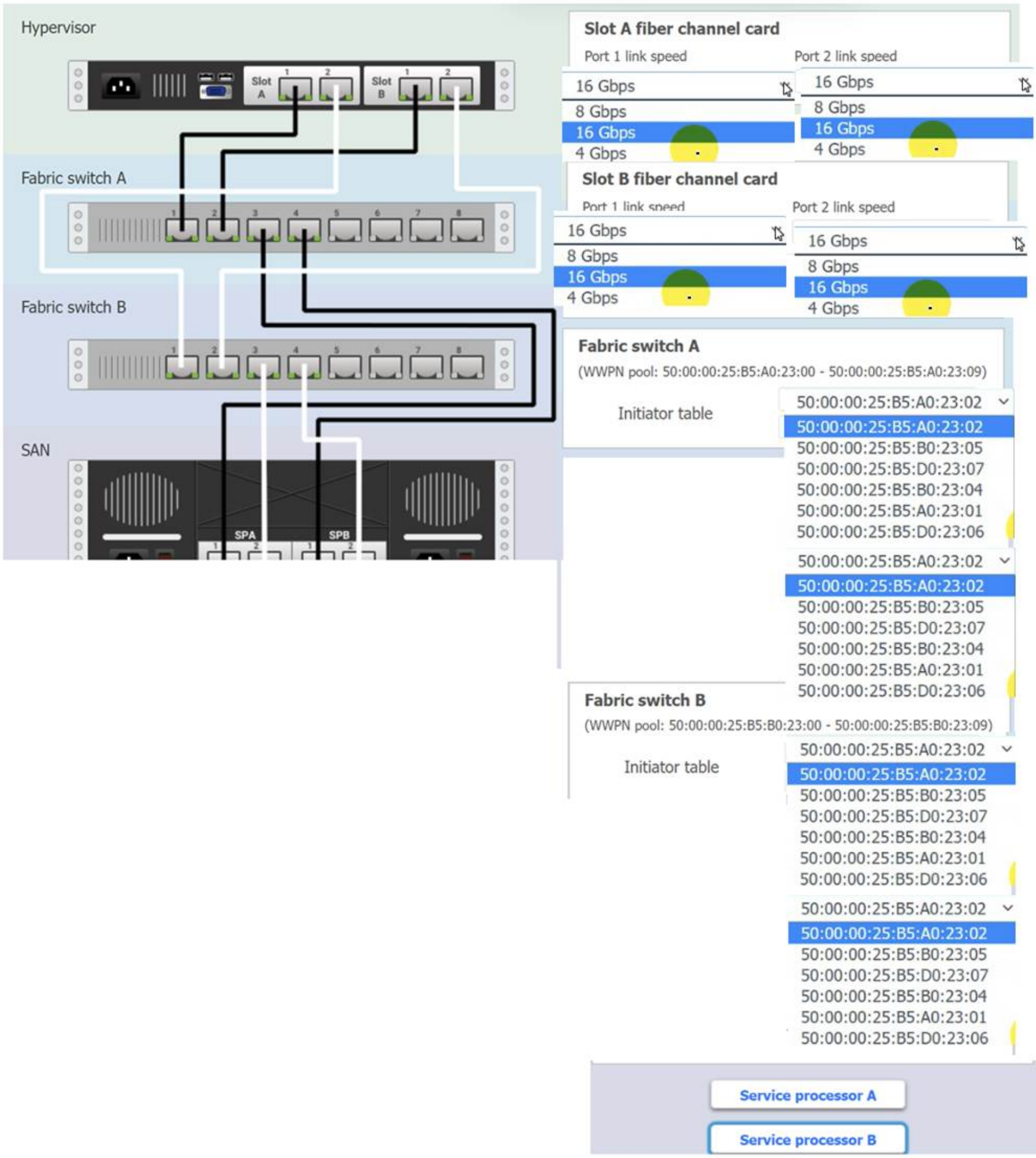
A. Sovereignty
B. Data classification
C. Litigation holds
D. Retention

Answer: A

Explanation:
Data sovereignty refers to the legal implications of storing data in a country, subject to that country's laws. As the website's usage expands globally, data sovereignty becomes a critical concern because laws governing data ownership, privacy, and rights can vary significantly from one jurisdiction to another, potentially affecting the users' ownership rights over their photographs.

NEW QUESTION 89
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
Slot B
Fabric switch A
Fabric switch B
SAN
SPA
SPB
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


Hypervisor
Slot A
Slot B
Fabric switch A
Fabric switch B
SAN
SPA
SPB
Slot A fiber channel card
Port 1 link speed
16 Gbps
8 Gbps
16 Gbps
4 Gbps
Port 2 link speed
16 Gbps
8 Gbps
16 Gbps
4 Gbps
Slot B fiber channel card
Port 1 link speed
16 Gbps
8 Gbps
16 Gbps
4 Gbps
Port 2 link speed
16 Gbps
8 Gbps
16 Gbps
4 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:A0:23:02
50:00:00:25:B5:B0:23:05
50:00:00:25:B5:D0:23:07
50:00:00:25:B5:B0:23:04
50:00:00:25:B5:A0:23:01
50:00:00:25:B5:D0:23:06
50:00:00:25:B5:A0:23:02
50:00:00:25:B5:A0:23:02
50:00:00:25:B5:B0:23:05
50:00:00:25:B5:D0:23:07
50:00:00:25:B5:B0:23:04
50:00:00:25:B5:A0:23:01
50:00:00:25:B5:D0:23:06
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:A0:23:02
50:00:00:25:B5:A0:23:02
50:00:00:25:B5:B0:23:05
50:00:00:25:B5:D0:23:07
50:00:00:25:B5:B0:23:04
50:00:00:25:B5:A0:23:01
50:00:00:25:B5:D0:23:06
50:00:00:25:B5:A0:23:02
50:00:00:25:B5:A0:23:02
50:00:00:25:B5:B0:23:05
50:00:00:25:B5:D0:23:07
50:00:00:25:B5:B0:23:04
50:00:00:25:B5:A0:23:01
50:00:00:25:B5:D0:23:06
Service processor A
Service processor B

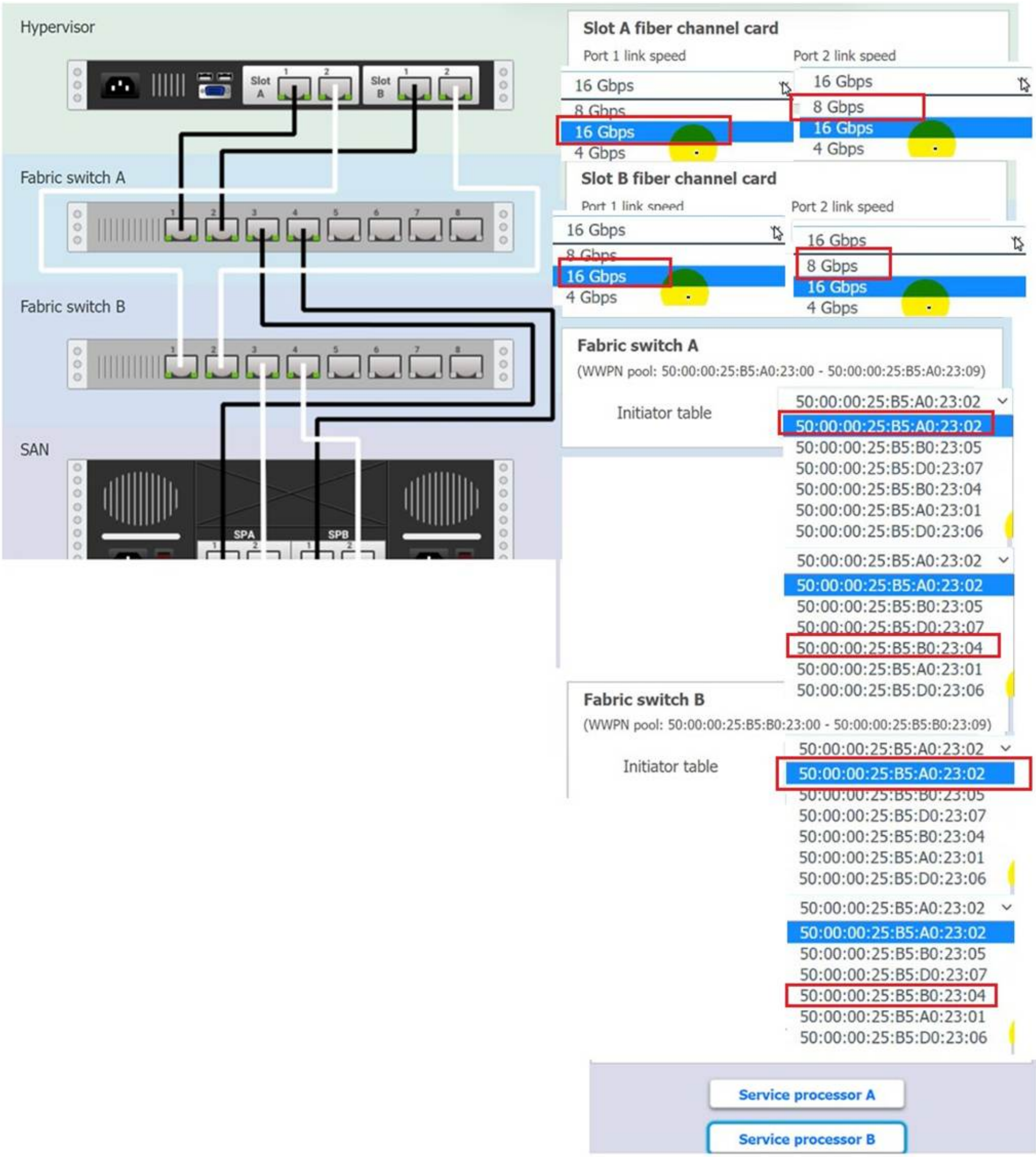
Service processor A details	
"no initiators currently logged in"	
SP-A module 0 Port 0	8 Gbps
SP-A module 0 Port 1	8 Gbps
Disk groups	1
RAID level	5

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 94
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	^https://webapp[.]comptia[.]org/$	Block	A
1002	Botnet	^https://webapp[.]comptia[.]org/$	Block	A
1003	API web server	^https://webapp3[.]comptia[.]org/([0-9A-Za-z][0-9A-Za-z_-?]*/)*$	Allow	B
1004	Chat web traffic	^https://webapp4[.]comptia[.]org/chat/request[.]php$	Allow	B
1005	Finance application 1	^https://webapp1[.]comptia[.]org/([0-9A-Za-z][0-9A-Za-z_-?]*)*$	Allow	B
1006	Finance application 2	^https://webapp1[.]comptia[.]org/login[.]html$	Block	A
1007	Video application	^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.htmlare 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 96
Department supervisors have requested a report that will help them understand the utilization of cloud resources, make decisions about budgeting for the following year, and reduce costs. Which of the following are the most important requisite steps to create the report? (Select two).

A. Set the desired retention of resource logs.
B. Configure application tracing.
C. Integrate email alerts with ticketing software.
D. Enable resource tagging.
E. Configure the collection of performance/utilization logs.
F. Configure metric threshold alerts.

Answer: DE

Explanation:
To create a report that helps understand the utilization of cloud resources, make budget decisions, and reduce costs, the most important steps are to enable resource tagging and configure the collection of performance/utilization logs. Resource tagging helps in categorizing and tracking costs by associating tags with resources, while performance/utilization logs are essential for analyzing resource usage over time. References: CompTIA Cloud+ Study Guide (Exam CV0-004) - Chapter on Cloud Management

NEW QUESTION 97
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 99
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 102
Given the following command:

Sdocker pull images.comptia.org/user1/myimage:latest
Which of the following correctly identifies images.comptia.org?

A. Image registry
B. Image creator
C. Image version
D. Image name

Answer: A

Explanation:
In the Docker pull command given,images.comptia.orgrepresents the image registry. A Docker image registry is a collection of repositories that host Docker images. It is where images arestored and organized, and from where they can be pulled for deployment.References: Docker and container management concepts, including image registries, are part of the cloud services understanding in the CompTIA Cloud+ curriculum.

NEW QUESTION 106
A cloud engineer is collecting web server application logs to troubleshoot intermittent issues. However, the logs are piling up and causing storage issues. Which of the following log mechanisms should the cloud engineer implement to address this issue?

A. Splicing
B. Rotation
C. Sampling
D. Inspection

Answer: B

Explanation:
Log rotation is the mechanism the cloud engineer should implement to address the issue of logs piling up and causing storage issues. Log rotation involves automatically archiving old log files and creating new ones after a certain size or time period, preventing storage issues. References: CompTIA Cloud+ Study Guide (Exam CV0-004) - Chapter on Cloud Monitoring and Management

NEW QUESTION 108
A cloud engineer is deploying a cloud solution that will be used on premises with need-to- know access. Which of the following cloud deployment models best meets this requirement?

A. Community
B. Public
C. Private
D. Hybrid

Answer: C

Explanation:
A private cloud deployment model is the most appropriate when the requirement is for 'need-to-know' access, as it offers a more secure environment with resources dedicated to a single organization. It can be hosted on-premises or off-premises but is maintained on a private network, ensuring greater control over the data, security, and compliance when compared to other cloud models. References: CompTIA Cloud+ Certification Study Guide (Exam CV0-004) by Scott Wilson and Eric Vanderburg

NEW QUESTION 109
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 th€ following backup features should the administrator lest 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
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 118
Which of the following storage resources provides higher availability and speed for currently used files?

A. Warm/HDD
B. Cold/SSD
C. Hot/SSD
D. Archive/HDD

Answer: C

Explanation:
Hot storage using Solid State Drives (SSD) is designed for data that needs to be accessed frequently and quickly. SSDs provide faster access times compared to HDDs, making them suitable for high-availability and speed-critical files, such as those currently in use or requiring rapid access.
References: CompTIA Cloud+ resources and storage tiering concepts

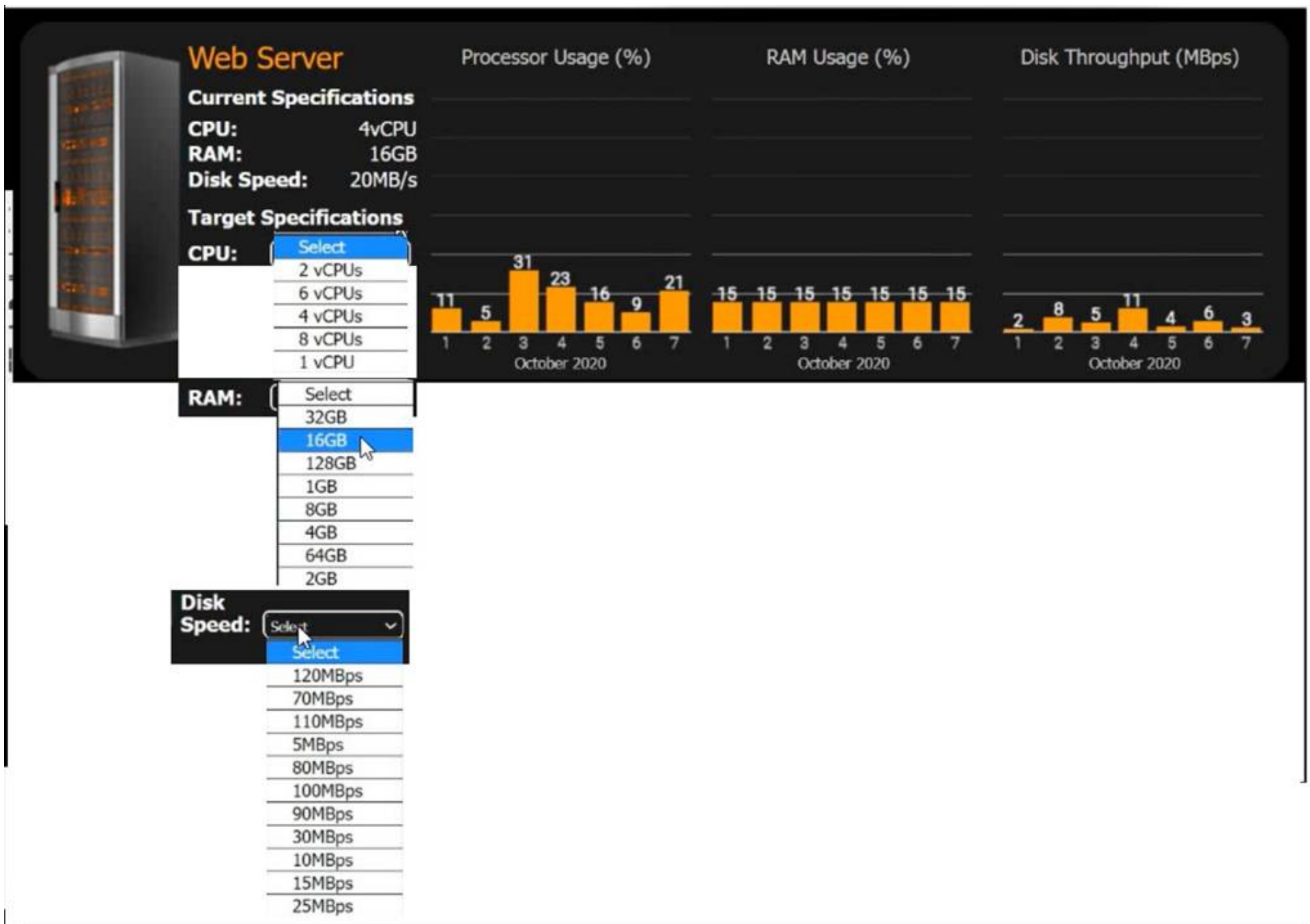
NEW QUESTION 122
A user's assigned cloud credentials are locked, and the user is unable to access the project's application. The cloud administrator reviews the logs and notices several attempts to log in with the user's account were made to a different application after working hours. Which of the following is the best approach for the administrator to troubleshoot this issue?

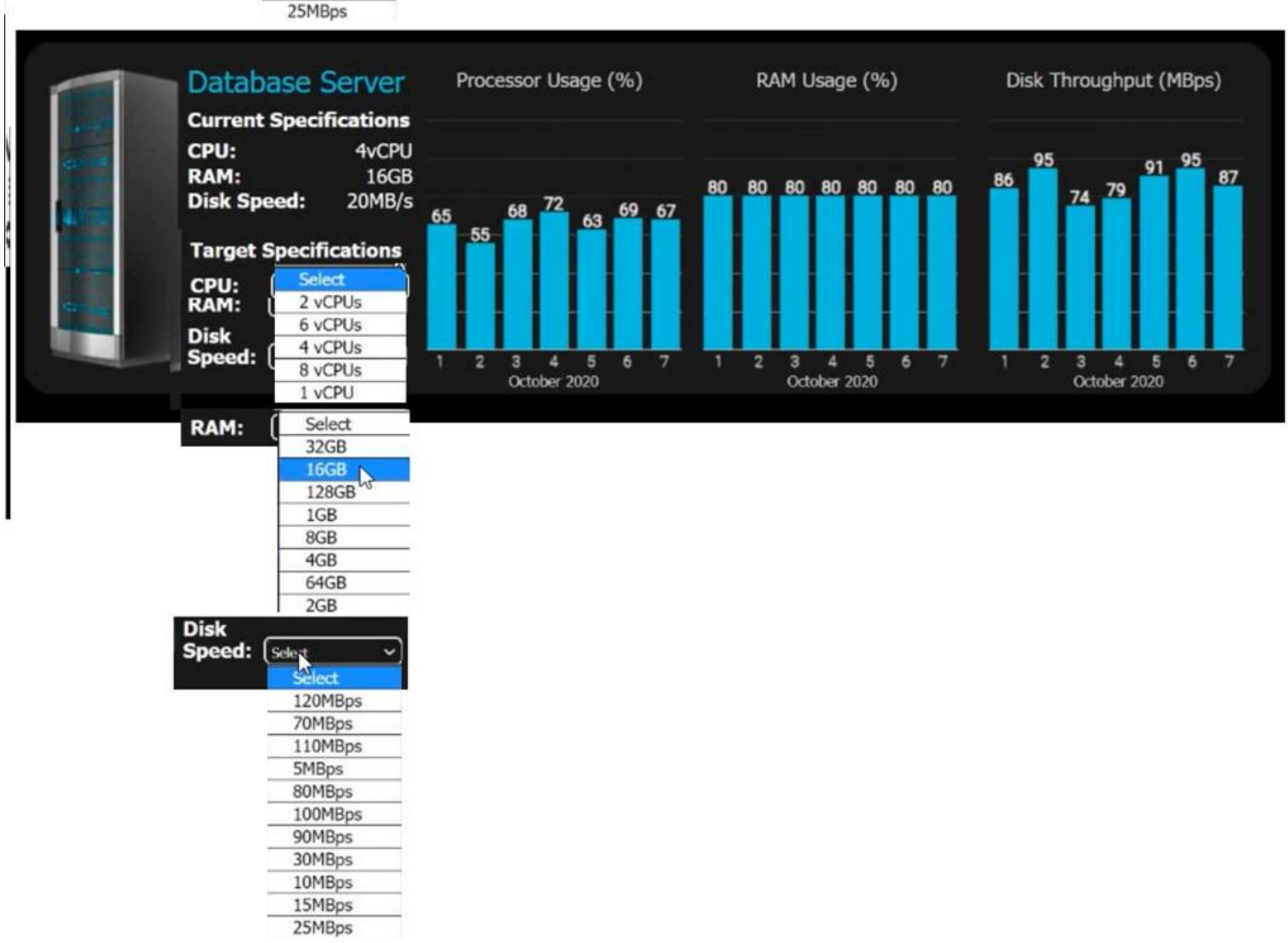
A. Create new credentials for the user and restrict access to the authorized application.
B. Track the source of the log-in attempts and block the IP address of the source in the WAR
C. Reset the user's account and implement a stronger lock-out policy.
D. Install an IDS on the network to monitor suspicious activity

Answer: B

Explanation:
The administrator should track the source of the log-in attempts and block the IP address in the Web Application Firewall (WAF). This will prevent further unauthorized attempts from that source. It is also advisable to reset the user's account credentials as a precautionary measure.References: Incident response and addressing unauthorized access attempts, including tracking and blocking IP addresses, are security measures addressed in the CompTIA Cloud+ material.

NEW QUESTION 125
HOTSPOT
An e-commerce company is migrating from an on-premises private cloud environment to a public cloud IaaS environment. You are tasked with right-sizing the environment to
save costs after the migration. The company's requirements are to provide a 20% overhead above the average resource consumption, rounded up.
INSTRUCTIONS
Review the specifications and graphs showing resource usage for the web and database servers. Determine the average resource usage and select the correct specifications from the available drop-down options.


Web Server
Current Specifications
CPU: 4vCPU
RAM: 16GB
Disk Speed: 20MB/s
Target Specifications
CPU:
Select
2 vCPUs
6 vCPUs
4 vCPUs
8 vCPUs
1 vCPU
RAM:
Select
32GB
16GB
128GB
1GB
8GB
4GB
64GB
2GB
Disk Speed:
Select
120MBps
70MBps
110MBps
5MBps
80MBps
100MBps
90MBps
30MBps
10MBps
15MBps
25MBps
Processor Usage (%)
11 5 31 23 16 9 21
1 2 3 4 5 6 7
October 2020
RAM Usage (%)
15 15 15 15 15 15 15
1 2 3 4 5 6 7
October 2020
Disk Throughput (MBps)
2 8 5 11 4 6 3
1 2 3 4 5 6 7
October 2020


Database Server
Current Specifications
CPU: 4vCPU
RAM: 16GB
Disk Speed: 20MB/s
Target Specifications
CPU:
RAM:
Disk Speed:
Select
2 vCPUs
6 vCPUs
4 vCPUs
8 vCPUs
1 vCPU
RAM:
Select
32GB
16GB
128GB
1GB
8GB
4GB
64GB
2GB
Disk Speed:
Select
120MBps
70MBps
110MBps
5MBps
80MBps
100MBps
90MBps
30MBps
10MBps
15MBps
25MBps
Processor Usage (%)
65 55 68 72 63 69 67
1 2 3 4 5 6 7
October 2020
RAM Usage (%)
80 80 80 80 80 80 80
1 2 3 4 5 6 7
October 2020
Disk Throughput (MBps)
86 95 74 79 91 95 87
1 2 3 4 5 6 7
October 2020

A. Mastered
B. Not Mastered

Answer: A

Explanation:
For the Web Server:
? CPU: 2 vCPUs
? RAM: 2GB
? Disk Speed: 10MBps
For the Database Server:
? CPU: 6 vCPUs
? RAM: 128GB
? Disk Speed: 110MBps
These selections are based on maintaining a 20% overhead above the average resource consumption and rounding up to the next available option in the dropdowns provided.

NEW QUESTION 127
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 131
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 lo 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 therequired port are allowed.References: Based on the information provided in the question and general networking principles.

NEW QUESTION 135
A video surveillance system records road incidents and stores the videos locally before uploading them to the cloud and deleting them from local storage. Which of the following best describes the nature of the local storage?

A. Persistent
B. Ephemeral
C. Differential
D. Incremental

Answer: B

Explanation:
The nature of the local storage in a video surveillance system that records road incidents and stores the videos locally before uploading them to the cloud and deleting them from local storage is ephemeral. Ephemeral storage is temporary and is designed to provide short-term storage for information that changes frequently or is not meant to be persistent. References: CompTIA Cloud+ Study Guide (Exam CV0-004) - Chapter on Cloud Storage Options

NEW QUESTION 140
Which of the following network protocols is generally used in a NAS environment?

A. BGP
B. RDP
C. TCP/IP
D. iSCSI

Answer: C

Explanation:
The network protocol generally used in a NAS (Network Attached Storage) environment is TCP/IP (Transmission Control Protocol/Internet Protocol). NAS devices are accessed over a network rather than being directly connected to the computer, and they utilize the TCP/IP protocol to enable this network communication.References: Understanding of networking protocols, including TCP/IP in the context of NAS environments, is part of the foundational networking knowledge for cloud services in CompTIA Cloud+.

NEW QUESTION 142
A bank informs an administrator that changes must be made to backups for long-term reporting purposes. Which of the following is the most important change the administrator
should make to satisfy these requirements?

A. Location of the backups
B. Type of the backups
C. Retention of the backups
D. Schedule of the backups

Answer: C

Explanation:
For long-term reporting purposes, the most critical aspect to consider is the retention period of the backups. This is because the bank will likely require access to historical data for audit, compliance, and reporting purposes. The retention policy will need to ensure that backups are kept for the required duration, which may be several years depending on regulatory and business needs. Adjusting the retention policy will help ensure that the necessary data is preserved for as long as it is needed, without unnecessary data accumulation that could lead to higher costs and management complexity.References: CompTIA Cloud+ Certification Study Guide (Exam CV0-004) by Scott Wilson and Eric Vanderburg

NEW QUESTION 147
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 149
A cloud deployment uses three different VPCs. The subnets on each VPC need to communicate with the others over private channels. Which of the following will achieve this objective?

A. Deploying a load balancer to send traffic to the private IP addresses
B. Creating peering connections between all VPCs
C. Adding BGP routes using the VPCs' private IP addresses
D. Establishing identical routing tables on all VPCs

Answer: B

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

NEW QUESTION 153
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 156
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 157
Which of the following service options would provide the best availability for critical applications in the event of a disaster?

A. Edge computing
B. Cloud bursting
C. Availability zones
D. Multicloud tenancy

Answer: C

Explanation:
Availability zones provide the best availability for critical applications in the event of a disaster. They are distinct locations within a cloud region that are engineered to be isolated from failures in other availability zones, thus providing redundancy and failover capabilities, which is essential for maintaining high availability of critical applications.References: The concept of availability zones and their importance in disaster recovery and high availability is covered under the domain of Management and Technical Operations in the CompTIA Cloud+ objectives.

NEW QUESTION 160
A system surpasses 75% to 80% of resource consumption. Which of the following scaling approaches is the most appropriate?

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

Answer: C

Explanation:
Load scaling is the most appropriate approach when a system surpasses 75% to 80% of resource consumption. This method involves adjusting resources dynamically in response to the current load, ensuring the system can handle increased demand without performance degradation. Load scaling can be automatic, allowing systems to scale up or down based on predefined metrics like CPU usage, memory, or network traffic, providing an efficient way to manage resources and maintain optimal performance.References: The CompTIA Cloud+ exam objectives include understanding cloud management and technical operations, which encompass knowledge of various scaling approaches, including load scaling, to ensure efficient resource utilization in cloud environments.

NEW QUESTION 163
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 167
A cloud architect attempts to modify a protected branch but is unable to do so. The architect receives an error indicating the action cannot be completed. Which of the following should the architect try instead"

A. Adding a new remote
B. Creating a pull request
C. Merging the branch
D. Rebasing the branch

Answer: B

Explanation:
When unable to modify a protected branch directly, the recommended approach is to create a pull request. This allows changes to be reviewed and approved by authorized personnel before being merged into the protected branch, maintaining code integrity and compliance with the project's workflow and policies.

NEW QUESTION 168
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 171
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 175
An organization's critical data was exfiltrated from a computer system in a cyberattack. A cloud analyst wants to identify the root cause and is reviewing the following security logs of
a software web application:
"2021/12/18 09:33:12" "10. 34. 32.18" "104. 224. 123. 119" "POST /
login.php?u=administrator&p=or%201%20=1"
"2021/12/18 09:33:13" "10.34. 32.18" "104. 224. 123.119" "POST /login.
php?u=administrator&p=%27%0A"
"2021/12/18 09:33:14" "10. 34. 32.18" "104. 224. 123. 119" "POST /login.
php?u=administrator&p=%26"
"2021/12/18 09:33:17" "10.34. 32.18" "104. 224. 123.119" "POST /
login.php?u=administrator&p=%3B"
"2021/12/18 09:33:12" "10.34. 32. 18" "104. 224. 123. 119" "POST / login.
php?u=admin&p=or%201%20=1"
"2021/12/18 09:33:19" "10.34.32.18" "104. 224. 123.119" "POST / login.
php?u=admin&p=%27%0A"
"2021/12/18 09:33:21" "10. 34. 32.18" "104.224. 123.119" "POST / login.
php?u=admin&p=%26"

"2021/12/18 09:33:23" "10. 34. 32.18" "104. 224. 123.119" "POST / login.
php?u=admin&p=%3B"
Which of the following types of attacks occurred?

A. SQL injection
B. Cross-site scripting
C. Reuse of leaked credentials
D. Privilege escalation

Answer: A

Explanation:
The security logs of the software web application show patterns that are typical of an SQL injection attack. This is evidenced by the inclusion of SQL syntax in the user input fields in an attempt to manipulate the database. References: CompTIA Cloud+ Study Guide (Exam CV0-004) - Chapter on Cloud Security Threats

NEW QUESTION 176
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 requite Python 3.10 and ate 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 179
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 180
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 185
A cloud solutions architect is designing a VM-based solution that requires reducing the cost as much as possible. Which of the following solutions will best satisfy this requirement?

A. Using ephemeral storage on replicated VMs
B. Creating Spot VMs in one availability zone
C. Spreading the VMs across different regions
D. Using provisioned IOPS storage

Answer: B

Explanation:
Using Spot VMs is a cost-effective solution as these are available at significantly reduced prices compared to standard instances. Spot VMs are ideal for workloads that can tolerate interruptions and are a way to take advantage of unused cloud capacity.References: The concept of Spot VMs and their cost benefits are included in the financial aspects of managing cloud resources, as per the CompTIA Cloud+ certification guidelines.

NEW QUESTION 188
A company wants to combine solutions in a central and scalable environment to achieve the following goals:
• Control
• Visibility
• Automation
• Cost efficiency
Which of the following best describes what the company should implement?

A. Batch processing
B. Workload orchestration
C. Containerization
D. Application modernization

Answer: B

Explanation:
Workload orchestration is the best description of what the company should implement to achieve control, visibility, automation, and cost efficiency. It involves using orchestration tools to manage workloads in cloud environments, ensuring resources are used efficiently and operations are automated.References: Workload orchestration is a part of cloud management strategies discussed under the Management and Technical Operations domain in the CompTIA Cloud+ objectives.

NEW QUESTION 192
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 195
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 197
A group of cloud administrators frequently uses the same deployment template to recreate a cloud-based development environment. The administrators are unable to go back and review the history of changes they have made to the template. Which of the following cloud resource deployment concepts should the administrator start using?

A. Drift detection
B. Repeatability
C. Documentation
D. Versioning

Answer: D

Explanation:
Versioning is a concept that allows cloud administrators to keep track of the history of changes made to deployment templates or any other configuration file. By using version control systems, they can review previous versions, roll back to earlier configurations if necessary, and understand the evolution of the deployment template over time. References: CompTIA Cloud+ Guide to Cloud Computing (ISBN: 978-1-64274-282-2)

NEW QUESTION 201
A cloud networking engineer is troubleshooting the corporate office's network configuration. Employees in the IT and operations departments are unable to resolve IP addresses on all devices, and the IT department cannot establish a connection to other departments' subnets. The engineer identifies the following configuration currently in place to support the office network:

Subnet	Department	Employees
10.1.20.1/24	Finance	50
10.1.30.1/24	IT	90
10.1.40.1/24	Legal	30
10.1.50.1/24	Operations	100

Each employee needs to connect to the network with a maximum of three hosts. Each subnet must be segregated, but the IT department must have the ability to communicate with all subnets. Which of the following meet the IP addressing and routing requirements? (Select two).

A. Modifying the subnet mask to 255 255 254.0 for IT and operations departments
B. Configuring static routing to allow access from each subnet to 10.1.40.1
C. Modifying the BYOD policy to reduce the volume of devices that are allowed to connect to the corporate network
D. Configuring static routing to allow access from 10.1.30.1 to each subnet
E. Combining the subnets and increasing the allocation of IP addresses available to support three hosts for each employee
F. Modifying the subnet mask to 255.255.255.128 for the IT and operations departments

Answer: DF

Explanation:
To meet the requirements of allowing the IT department to communicate with all subnets while keeping each department segregated and ensuring a maximum of three hosts per employee, two actions are required. First, configuring static routing from the IT subnet (10.1.30.1) to each of the other subnets would establish the necessary connectivity. Second, modifying the subnet mask to 255.255.255.128 for the IT and operations departments would provide the needed number of host addresses while maintaining subnet segregation.References: This solution is based on networking and subnetting principles, which are part of the foundational knowledge for cloud networking within the CompTIA Cloud+ framework.

NEW QUESTION 206
A company's website suddenly crashed. A cloud engineer investigates the following logs:

```
webbapp_access.log
...
2023-04-03 16:45:00 GET /home?x=213
2023-04-03 16:45:01 GET /home?x=6544
2023-04-03 16:45:02 GET /home?x=52455
2023-04-03 16:45:03 GET /home?x=56
2023-04-03 16:45:04 GET /home?x=7895
...
2023-04-03 16:47:00 GET /home?x=3986 502
2023-04-03 16:47:01 GET /home?x=2461 502
```

Which of the following is the most likely cause of the issue?

A. SQL injection
B. Cross-site scripting
C. Leaked credentials
D. DDoS

Answer: D

Explanation:
The logs indicate a sudden surge in access requests to the website's homepage, followed by 502 errors, which are indicative of server overload or failure to handle incoming requests. This pattern is typical of a Distributed Denial of Service (DDoS) attack, where multiple compromised systems flood the target with traffic, exceeding its capacity to handle requests, leading to service disruption.

NEW QUESTION 211
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 216
Which of the following AI/ML technologies consumes text input to discern tone?

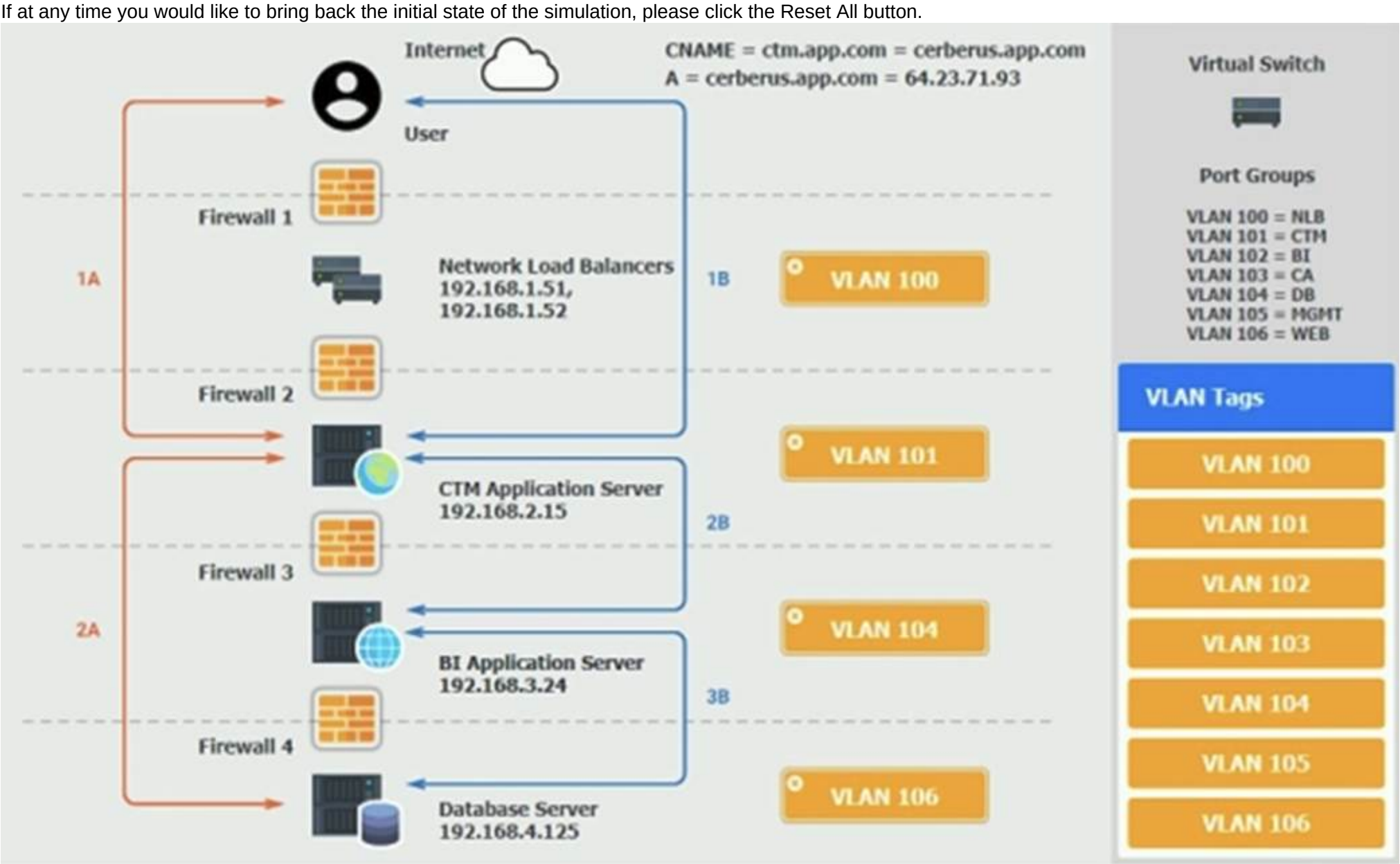
A. Text recognition
B. Computer vision
C. Visual recognition
D. Sentiment analysis

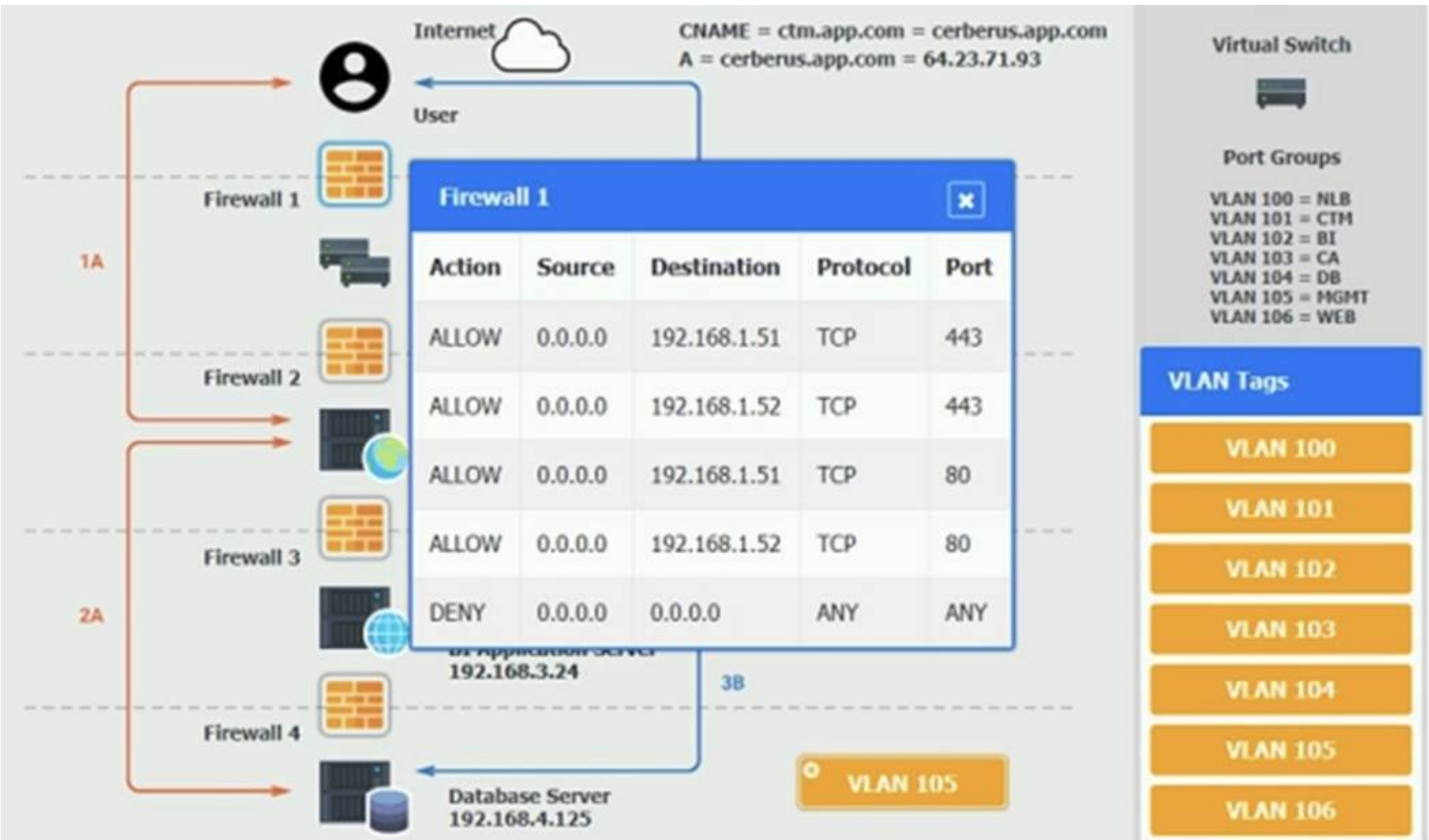
Answer: D

Explanation:
Sentiment analysis is an AI/ML technology that processes text to determine the tone. It helps in understanding the sentiments behind the words by analyzing the text input, which can be positive, negative, or neutral. References: CompTIA Cloud+ Study Guide (Exam CV0-004) - Chapter on Cloud Technologies and Applications

NEW QUESTION 218
SIMULATION
The QA team is testing a newly implemented clinical trial management (CTM) SaaS application that uses a business intelligence application for reporting. The UAT users were
instructed to use HTTP and HTTPS. Refer to the application dataflow:
1A– The end user accesses the application through a web browser to enter and view clinical data.

2A– The CTM application server reads/writes data to/from the database server.
1B– The end user accesses the application through a web browser to run reports on clinical data.
2B– The CTM application server makes a SOAP call on a non-privileged port to the BI application server.
3B– The BI application server gets the data from the database server and presents it to the CTM application server.
When UAT users try to access the application using https://ctm.app.com or http://ctm.app.com, they get a message stating: ??Browser cannot display the webpage.?? The QA team has raised a ticket to troubleshoot the issue.
INSTRUCTIONS
You are a cloud engineer who is tasked with reviewing the firewall rules as well as virtual network settings.
You should ensure the firewall rules are allowing only the traffic based on the dataflow. You have already verified the external DNS resolution and NAT are working.
Verify and appropriately configure the VLAN assignments and ACLs. Drag and drop the appropriate VLANs to each tier from the VLAN Tags table. Click on each Firewall to change ACLs as needed.
If at any time you would like to bring back the initial state of the simulation, please click the Reset All button.

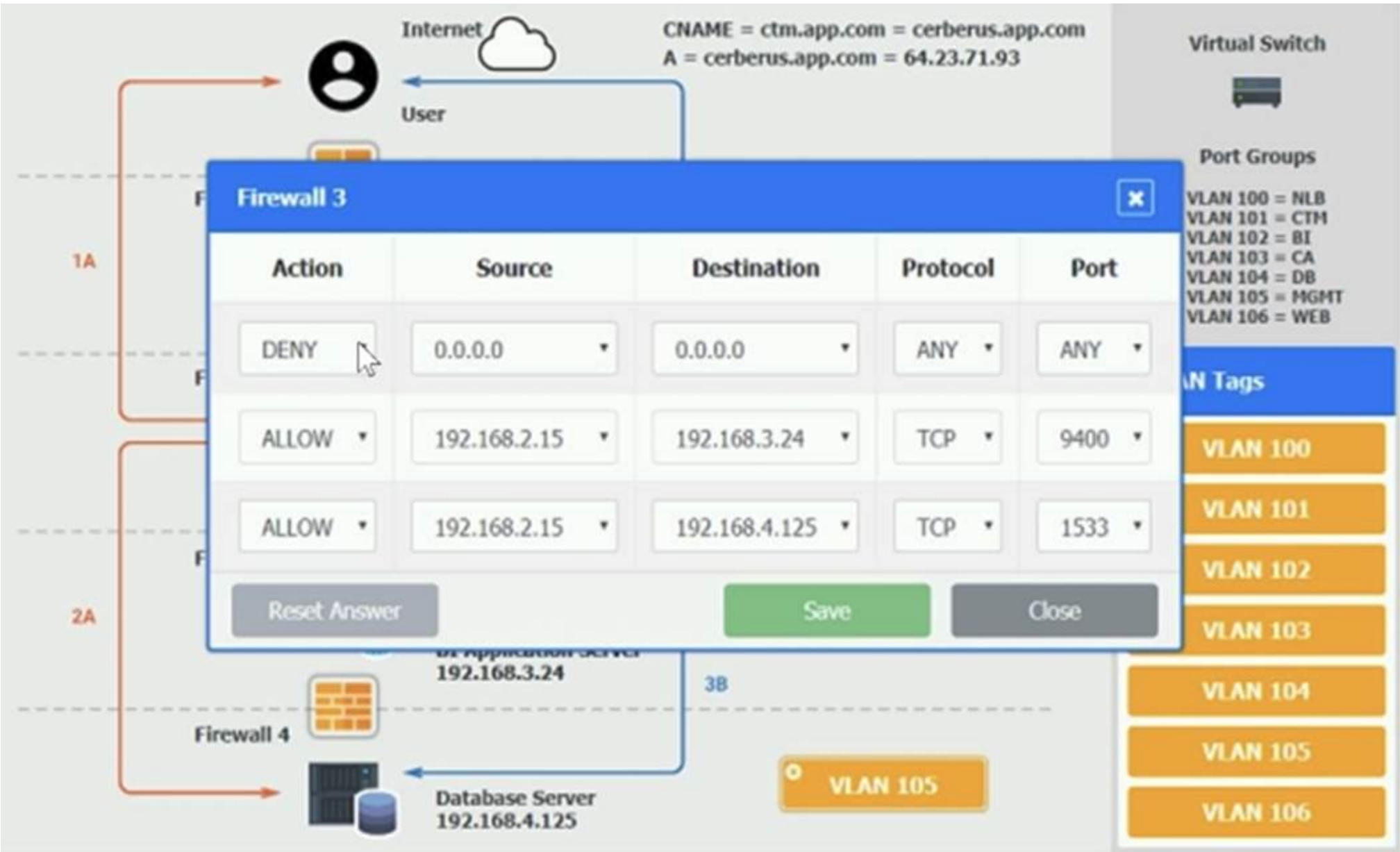


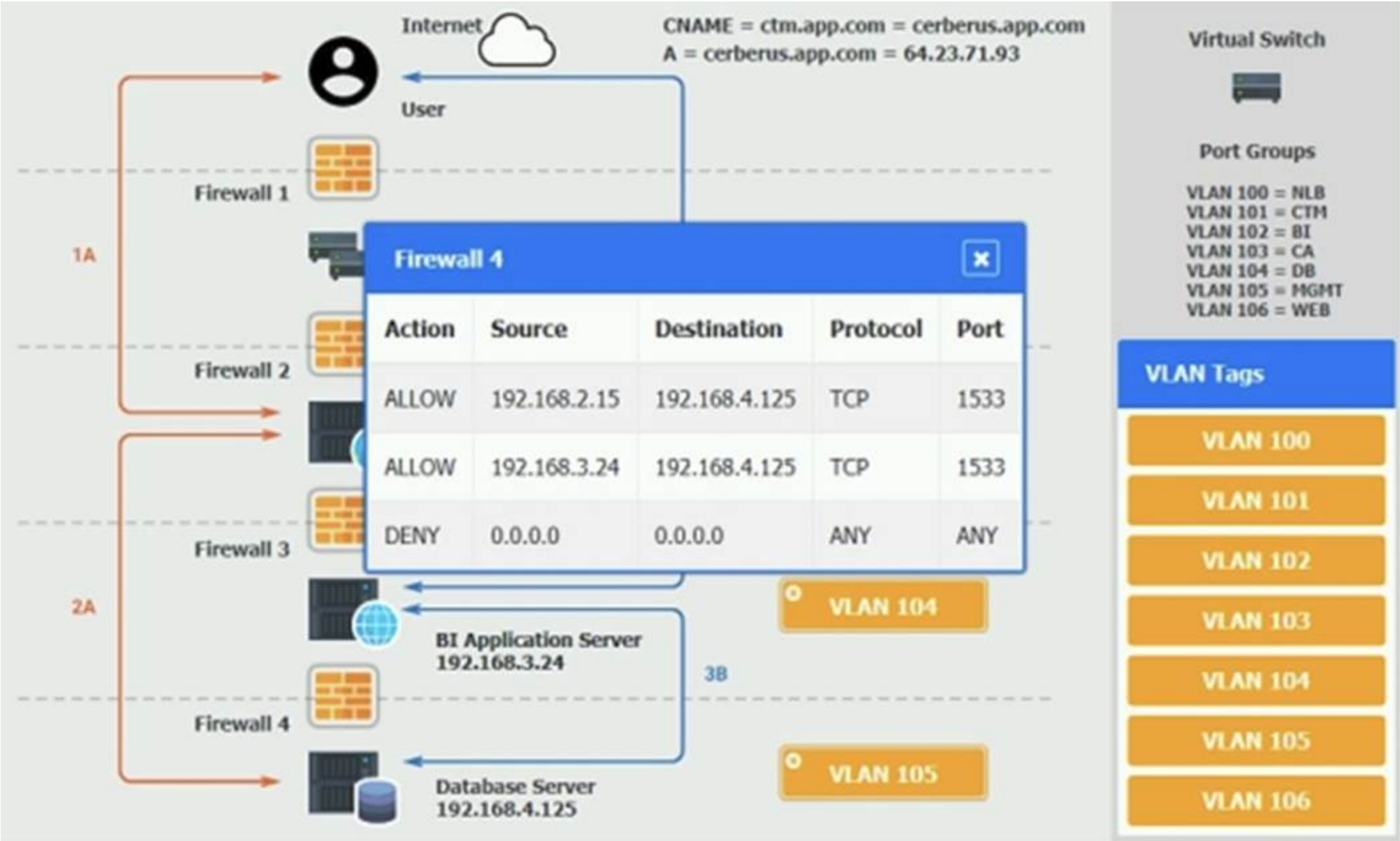


Firewall 1

Action	Source	Destination	Protocol	Port
ALLOW	0.0.0.0	192.168.1.51	TCP	443
ALLOW	0.0.0.0	192.168.1.52	TCP	443
ALLOW	0.0.0.0	192.168.1.51	TCP	80
ALLOW	0.0.0.0	192.168.1.52	TCP	80
DENY	0.0.0.0	0.0.0.0	ANY	ANY

Internet
CNAME = ctm.app.com = cerberus.app.com
A = cerberus.app.com = 64.23.71.93
Virtual Switch
Firewall 2
Action
Source
Destination
Protocol
Port
ALLOW
192.168.1.51
192.168.2.15
TCP
88
DENY
192.168.1.52
ALLOW
DENY
DENY
DENY
0.0.0.0
127.0.0.1
64.23.71.93
192.168.1.51
192.168.1.52
192.168.2.15
192.168.2.24
192.168.3.24
192.168.4.125
TCP
UDP
ANY
80
88
443
1533
9400
ANY
UDP
TCP
443
0.0.0.0
ANY
ANY
Reset Answer
Save
Close
Port Groups
VLAN 100 = NLB
VLAN 101 = CTM
VLAN 102 = BI
VLAN 103 = CA
VLAN 104 = DB
VLAN 105 = MGMT
VLAN 106 = WEB
VLAN Tags
VLAN 100
VLAN 101
VLAN 102
VLAN 103
VLAN 104
VLAN 105
VLAN 106
1A
2A
Database Server
192.168.4.125
VLAN 105


Internet
User
CNAME = ctm.app.com = cerberus.app.com
A = cerberus.app.com = 64.23.71.93
Virtual Switch
Firewall 3
Action
Source
Destination
Protocol
Port
DENY
0.0.0.0
0.0.0.0
ANY
ANY
ALLOW
192.168.2.15
192.168.3.24
TCP
9400
ALLOW
192.168.2.15
192.168.4.125
TCP
1533
Reset Answer
Save
Close
Port Groups
VLAN 100 = NLB
VLAN 101 = CTM
VLAN 102 = BI
VLAN 103 = CA
VLAN 104 = DB
VLAN 105 = MGMT
VLAN 106 = WEB
VLAN Tags
VLAN 100
VLAN 101
VLAN 102
VLAN 103
VLAN 104
VLAN 105
VLAN 106
1A
2A
3B
192.168.3.24
Firewall 4
Database Server
192.168.4.125
VLAN 105



A. Mastered
B. Not Mastered

Answer: A

Explanation:
On firewall 3, change the DENY 0.0.0.0 entry to rule 3 not rule 1.

NEW QUESTION 221
Users have been reporting that a remotely hosted application is not accessible following a recent migration. However, the cloud administrator is able to access the application from
the same site as the users. Which of the following should the administrator update?

A. Cipher suite
B. Network ACL
C. Routing table
D. Permissions

Answer: C

Explanation:
Since the cloud administrator can access the application from the same site but users cannot, it suggests a possible issue with the network routing. The routing table may need to be updated to ensure that traffic from the users' location is correctly directed to the new location of the remotely hosted application after the migration.References: CompTIA Network+ Certification Study Guide by Glen E. Clarke.

NEW QUESTION 225
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 226
Which of the following describes the main difference between public and private container repositories?

A. Private container repository access requires authorization, while public repository access does not require authorization.

B. Private container repositories are hidden by default and containers must be directly referenced, while public container repositories allow browsing of container images.
C. Private container repositories must use proprietary licenses, while public container repositories must have open-source licenses.
D. Private container repositories are used to obfuscate the content of the Dockerfile, while public container repositories allow for Dockerfile inspection.

Answer: A

Explanation:
The main difference between public and private container repositories lies in access control. Public repositories allow users to download and use container images without requiring any authorization, making them accessible to anyone. On the other hand, private repositories require users to have proper authorization, usually through credentials, to access the container images, thus providing a level of privacy and security control. References: CompTIA Cloud+ Guide to Cloud Computing (ISBN: 978-1-64274-282-2)

NEW QUESTION 227
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 whileattempting 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 232
Which of the following vulnerability management concepts is best defined as the process of discovering vulnerabilities?

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

Answer: D

Explanation:
In vulnerability management, 'Identification' is the concept best defined as the process of discovering vulnerabilities. This step is crucial as it involves detecting vulnerabilities in systems, software, and networks, which is the first step in the vulnerability management process before moving on to assessment, remediation, and reporting.

NEW QUESTION 234
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 237
Which of the following communication methods between on-premises and cloud environments would ensure minimal-to-low latency and overhead?

A. Site-to-site VPN
B. Peer-to-peer VPN
C. Direct connection
D. peering

Answer: C

Explanation:
A direct connection between on-premises and cloud environments involves a dedicated, private connection that does not traverse the public internet. This setup ensures minimal-to-low latency and overhead, providing more consistent network performance and reliability compared to other methods like VPNs or public internet connections, making it suitable for high-volume or latency-sensitive applications.

NEW QUESTION 240

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 245
A security analyst confirms a zero-day vulnerability was exploited by hackers who gained access to confidential customer data and installed ransomware on the server Which of the following steps should the security analyst take? (Select two).

A. Contact the customers to inform them about the data breach.
B. Contact the hackers to negotiate payment lo unlock the server.
C. Send a global communication to inform all impacted users.
D. Inform the management and legal teams about the data breach
E. Delete confidential data used on other servers that might be compromised.
F. Modify the firewall rules to block the IP addresses and update the ports.

Answer: AD

Explanation:
After a zero-day exploit resulting in a data breach and ransomware installation, it is critical to inform affected customers about the breach and the potential impact on their data. Additionally, the management and legal teams should be notified to handle the situation in compliance with regulatory requirements and to coordinate an appropriate response.References: Handling security incidents and communication strategies after a data breach are crucial elements of the governance and risk compliance domains in CompTIA Cloud+.

NEW QUESTION 250
A company receives files daily from a bank. The company requires that the files must be copied from the cloud storage resource to another cloud storage resource for further processing. Which of the following methods requires the least amount of effort to achieve the task?

A. Remote procedure call
B. SOAP
C. Event-driven architecture
D. REST

Answer: C

Explanation:
An event-driven architecture is the most efficient method for automating the task of copying files from one cloud storage resource to another upon their arrival. This architecture allows systems to automatically trigger actions based on specific events, such as the arrival of new files, minimizing manual effort and ensuring timely processing. References: CompTIA Cloud+ resources and cloud service architectures

NEW QUESTION 253
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 254
A company's content management system (CMS) service runs on an IaaS cluster on a public cloud. The CMS service is frequently targeted by a malicious threat actor using DDoS.
Which of the following should a cloud engineer monitor to identify attacks?

A. Network flow logs
B. Endpoint detection and response logs
C. Cloud provider event logs
D. Instance syslog

Answer: A

Explanation:
To identify DDoS attacks against a CMS service, a cloud engineer should monitor network flow logs. These logs provide data about the IP traffic going to and from network interfaces in a public cloud, which is essential for detecting the increased traffic volumes typically associated with DDoS attacks. References: CompTIA Cloud+ Study Guide (Exam CV0-004) - Chapter on Security in the Cloud

NEW QUESTION 256
A cloud administrator deploys new VMs in a cluster and discovers they are getting IP addresses in the range of 169.254.0.0/16. Which of the following is the most likely cause?

A. The scope has been exhausted.
B. The network is overlapping.
C. The VLAN is missing.
D. The NAT is Improperly configured.

Answer: A

Explanation:
IP addresses in the range of 169.254.0.0/16 are Automatic Private IP Addressing (APIPA) addresses, which devices assign themselves when they are configured to obtain an IP automatically but are unable to reach a DHCP server to get one. The most likely cause for VMs in a cluster to receive APIPA addresses is the exhaustion of the DHCP scope, meaning there are no more available IP addresses in the DHCP range to be assigned.

NEW QUESTION 259
Which of the following cloud deployment models is the best way to replicate a workload non-disruptively between on-premises servers and a public cloud?

A. Public
B. Community
C. Private
D. Hybrid

Answer: D

Explanation:
A hybrid cloud deployment model is the best way to replicate workloads non- disruptively between on-premises servers and a public cloud. This model integrates on- premises infrastructure, or private clouds with public clouds, allowing data and applications to be shared between them. References: CompTIA Cloud+ Study Guide (Exam CV0-004) - Chapter on Cloud Deployment Models

NEW QUESTION 263
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 268
A cloud engineer needs to migrate an application from on premises to a public cloud. Due to timing constraints, the application cannot be changed prior to migration. Which of the following migration strategies is best approach for this use case?

A. Retire
B. Rearchitect
C. Refactor
D. Rehost

Answer: D

Explanation:
Rehosting, often referred to as "lift-and-shift," is the process of migrating an application or workload to the cloud without modifying it. This approach is suitable when there are timing constraints that prevent making changes to the application prior to migration. Rehosting can be the quickest migration strategy since it involves moving the existing applications to the cloud with minimal changes.
References: CompTIA Cloud+ resources and cloud migration strategies

NEW QUESTION 273
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