CompTIA

Exam Questions CV0-004

CompTIA Cloud+

NEW QUESTION 1
A cloud administrator recently created three servers in the cloud. The goal was to create ACLs so the servers could not communicate with each other. The servers were configured
with the following IP addresses:

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

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

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

Answer: B

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

NEW QUESTION 2
A banking firm's cloud server will be decommissioned after a successful proof of concept using mirrored data. Which of the following is the best action to take regarding the storage used on the decommissioned server?

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

Answer: B

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

NEW QUESTION 3
A manager wants information about which users signed in to a certain VM during the past month. Which of the following can the cloud administrator use to obtain this information?

A. Retention
B. Alerting
C. Aggregation
D. Collection

Answer: D

Explanation:
To obtain information about which users signed in to a certain VM during the past month, a cloud administrator can use log collection. Log collection involves gathering and storing logs from various sources, including VMs, to provide historical data on system access and activity, which can then be analyzed to identify user login instances.References: The CompTIA Cloud+ certification emphasizes the importance of monitoring and visibility in cloud environments, which includes log collection and analysis as key components of operational management and security monitoring.

NEW QUESTION 4
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 5
A company requests that its cloud administrator provision virtual desktops for every user. Given the following information:
• One hundred users are at the company.
• A maximum of 30 users work at the same time.
• Users cannot be interrupted while working on the desktop. Which of the following strategies will reduce costs the most?

A. Provisioning VMs of varying sizes to match user needs
B. Configuring a group of VMs to share with multiple users
C. Using VMs that have spot availability
D. Setting up the VMs to turn off outside of business hours at night

Answer: D

Explanation:
Setting up the VMs to turn off outside of business hours at night will reduce costs the most, especially since a maximum of 30 users work at the same time and users cannot be interrupted while working. This approach ensures that resources are used only when necessary.References: Cost management and efficient resource utilization strategies like scheduling VMs to turn off during idle times are discussed within the financial management aspects of cloud services in the CompTIA Cloud+ exam objectives.

NEW QUESTION 6
Which of the following network types allows the addition of new features through the use of network function virtualization?

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

Answer: D

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

NEW QUESTION 7
Which of the following is used to deliver code quickly and efficiently across the development, test, and production environments?

A. Snapshot
B. Container image
C. Serverless function
D. VM template

Answer: B

Explanation:
A container image is used to deliver code quickly and efficiently across the development, test, and production environments. Container images are lightweight, standalone, executable software packages that include everything needed to run a piece of software, including the code, runtime, system tools, libraries, and settings. References: CompTIA Cloud+ Study Guide (Exam CV0-004) - Chapter on Cloud Deployment Methods

NEW QUESTION 8
A cloud engineer is troubleshooting an application that consumes multiple third-party REST APIs. The application is randomly expenenang high latency. Which of the following would best help determine the source of the latency?

A. Configuring centralized logging to analyze HTTP requests
B. Running a flow log on the network to analyze the packets
C. Configuring an API gateway to track all incoming requests
D. Enabling tracing to detect HTTP response times and codes

Answer: D

Explanation:
Enabling tracing in the application can help determine the source of high latency by providing detailed information on HTTP request and response times, as well as response codes. This can identify which API calls are experiencing delays and contribute to overall application latency, allowing for targeted troubleshooting and optimization.

NEW QUESTION 9
A cloud architect is preparing environments to develop a new application that will process sensitive data. The project team consists of one internal developer, two external consultants, and three testers. Which of the following is the most important security control for the cloud architect to consider implementing?

A. Setting up private development, public development, and testing environments

B. Segregating environments for internal and external teams
C. Configuring DDoS protection to mitigate the risk of downtime
D. Using IAM and ACL in order to bolster DLP

Answer: D

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

NEW QUESTION 10
A security engineer Identifies a vulnerability m a containerized application. The vulnerability can be exploited by a privileged process to read tie content of the host's memory. The security engineer reviews the following Dockerfile to determine a solution to mitigate similar exploits:

```
FROM alpine:3.17
RUN apk update && apk upgrade
COPY . /myapp
ENTRYPOINT ["/myapp/app"]
```

Which of the following is the best solution to prevent similar exploits by privileged processes?

A. Adding the USER myappuserinstruction
B. Patching the host running the Docker daemon
C. Changing FROM alpiner3.17 to FROM alpine:latest
D. Running the container with the ready-only filesystem configuration

Answer: A

Explanation:
Adding the "USER myappuser" instruction to the Dockerfile is the best solution to prevent similar exploits by privileged processes. This instruction ensures that the container runs as a non-privileged user instead of the root user, significantly reducing the risk of privileged exploits. Running containers with least privilege principles minimizes the potential impact of vulnerabilities, enhancing the overall security posture of the containerized environment.References: The CompTIA Cloud+ framework includes security concerns, measures, and concepts for cloud operations, highlighting the importance of container security practices, such as running containers as non-root users to prevent unauthorized access and exploitation.

NEW QUESTION 10
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 13
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 18

A systems administrator needs to configure a script that will monitor whether an application is healthy and stop the VM if an unsuccessful code is returned. Which of the following scripts should the systems administrator use to achieve this goal?

A. RESPONSE_CODE }string APP_URLbool RESPONSE_CODEstring VMhealth checker (APP_URL, VM) {if [http_probe (APP_URL) == 200] { echo RESPONSE_CODE }else{ stop (VM) echo
B. else{ echostring APP_URLfloat RESPONSE_CODE string VMhealth_checker (APP_URL, VM) {if [http_probe (APP_URL) == 200] { stop (RESPONSE_CODE)echo VM } stop (VM)RESPONSE CODE }
C. else{ echostring APP_URLint RESPONSE CODEstring VMhealth checker (APP_URL, VM) {if [http_probe (APP_URL) == 200] { echo RESPONSE_CODE }stop (VM) RESPONSE_CODE }
D. else{ echostring APP_URLint RESPONSE_CODEstring VMhealth_checker (APP_URL, VM) { if [http_probe (VM) == 200] { stop (VM)echo RESPONSE_CODE } RESPONSE CODE }

Answer: A

Explanation:
Script A is designed to monitor the health of an application by checking its response code. If the application returns a 200 (OK) status, it indicates that the application is healthy. Otherwise, the script will stop the VM to address the issue, which is a common approach to handle unhealthy application states in automated environments. This script effectively achieves the goal of monitoring application health and taking corrective action when an unsuccessful code is returned. References: CompTIA Cloud+ resources and general scripting practices for cloud environments

NEW QUESTION 23
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 25
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 30
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 31
Which of the following are best practices when working with a source control system? (Select two).

A. Merging code often
B. Pushing code directly to production
C. Performing code deployment
D. Maintaining one branch for all features
E. Committing code often
F. Initiating a pull request

Answer: AE

Explanation:
Best practices when working with a source control system include merging code often to ensure that changes from different team members are integrated regularly, reducing integration issues. Committing code often is also recommended to save small changes frequently, which helps in tracking changes and resolving issues more effectively.References: Source control system best practices are part of the software development and deployment guidelines discussed in the CompTIA Cloud+ examination objectives.

NEW QUESTION 35
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 39
A cloud infrastructure administrator updated the IP tables to block incoming connections and outgoing responses to 104.225.110.203. Which of the following vulnerability
management steps is this an example of?

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

Answer: B

Explanation:
Updating the IP tables to block connections to a specific IP address as a response to vulnerabilities is an example of remediation. Remediation involves taking direct action to fixvulnerabilities, such as by applying patches, changing configurations, or, in this case, updating firewall rules to block potentially harmful traffic. References: CompTIA Cloud+ resources and vulnerability management processes

NEW QUESTION 43
Which of the following is the most cost-effective and efficient strategy when migrating to the cloud?

A. Retire
B. Replatform
C. Retain
D. Refactor

Answer: A

Explanation:
The most cost-effective and efficient strategy when migrating to the cloud can often be to 'retire' or turn off legacy systems that are no longer useful or necessary. This avoids spending resources on migrating and maintaining systems that do not provide value in a cloud environment.References: Cloud migration strategies, including retiring outdated systems, are part of the decision-making process for cloud adoption in the CompTIA Cloud+ certification material.

NEW QUESTION 46
A company wants to implement a work environment that will have low operational overhead and highly accessible enterprise resource planning, email, and data resources. Which of the following cloud service models should the company implement?

A. laaS
B. PaaS
C. DBaaS
D. SaaS

Answer: D

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

NEW QUESTION 49
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 52
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 54
A software engineer at a cybersecurity company wants to access the cloud environment. Per company policy, the cloud environment should not be directly accessible via the internet. Which of the following options best describes how the software engineer can access the cloud resources?

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

Answer: B

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

NEW QUESTION 59
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 61
An e-commerce store is preparing for an annual holiday sale. Previously, this sale has increased the number of transactions between two and ten times the normal level of transactions. A cloud administrator wants to implement a process to scale the web server seamlessly. The goal is to automate changes only when necessary and with minimal cost.
Which of the following scaling approaches should the administrator use?

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

Answer: B

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

NEW QUESTION 64
Which of the following migration types is best to use when migrating a highly available application, which is normally hosted on a local VM cluster, for usage with an external user population?

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

Answer: C

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

NEW QUESTION 67
An organization is hosting a seminar with eight individuals who need to connect to their own dedicated VM. The technician used the following VM configurations:
IP address: DHCP NIC: 1Gbps
Network: 10.1.10.0/29
Several users are unable to access their VMs. Which of the following best describes the reason?

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

Answer: A

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

NEW QUESTION 68
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 72
A company that has several branches worldwide needs to facilitate full access to a specific cloud resource to a branch in Spain. Other branches will have only read access. Which of the following is the best way to grant access to the branch in Spain?

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

Answer: B

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

NEW QUESTION 76
A company wants to use a solution that will allow for quick recovery from ransomware attacks, as well as intentional and unintentional attacks on data integrity and availability. Which of the following should the company implement that will minimize administrative overhead?

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

Answer: D

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

NEW QUESTION 80
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 82
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 86
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 91
A CI/CD pipeline is used to deploy VMs to an laaS 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 93
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.

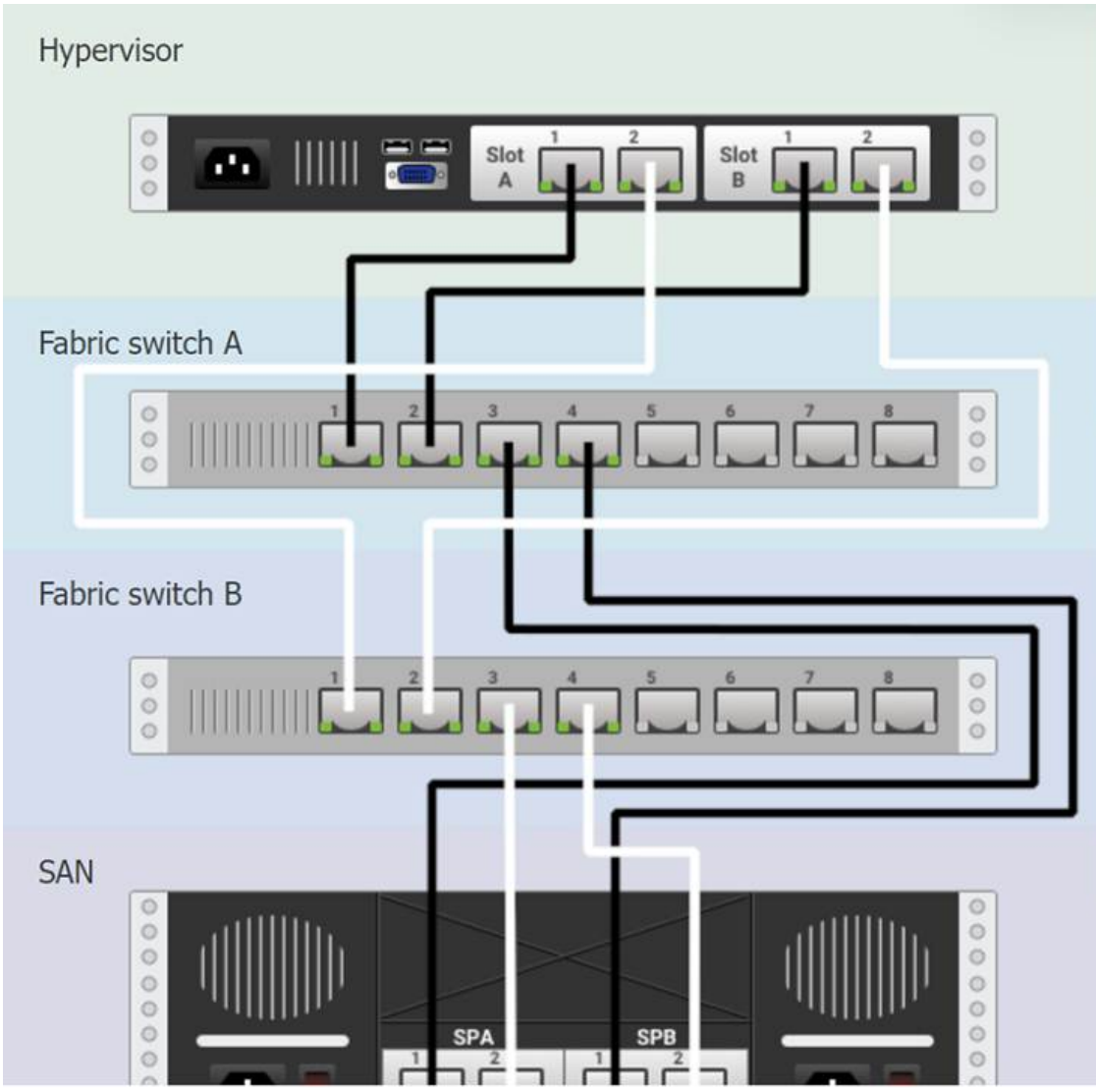
NEW QUESTION 94
A company operates a website that allows customers to upload, share, and retain tull ownership of their photographs. Which of the following could affect image ownership as the website usage expands globally?

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 95
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.



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

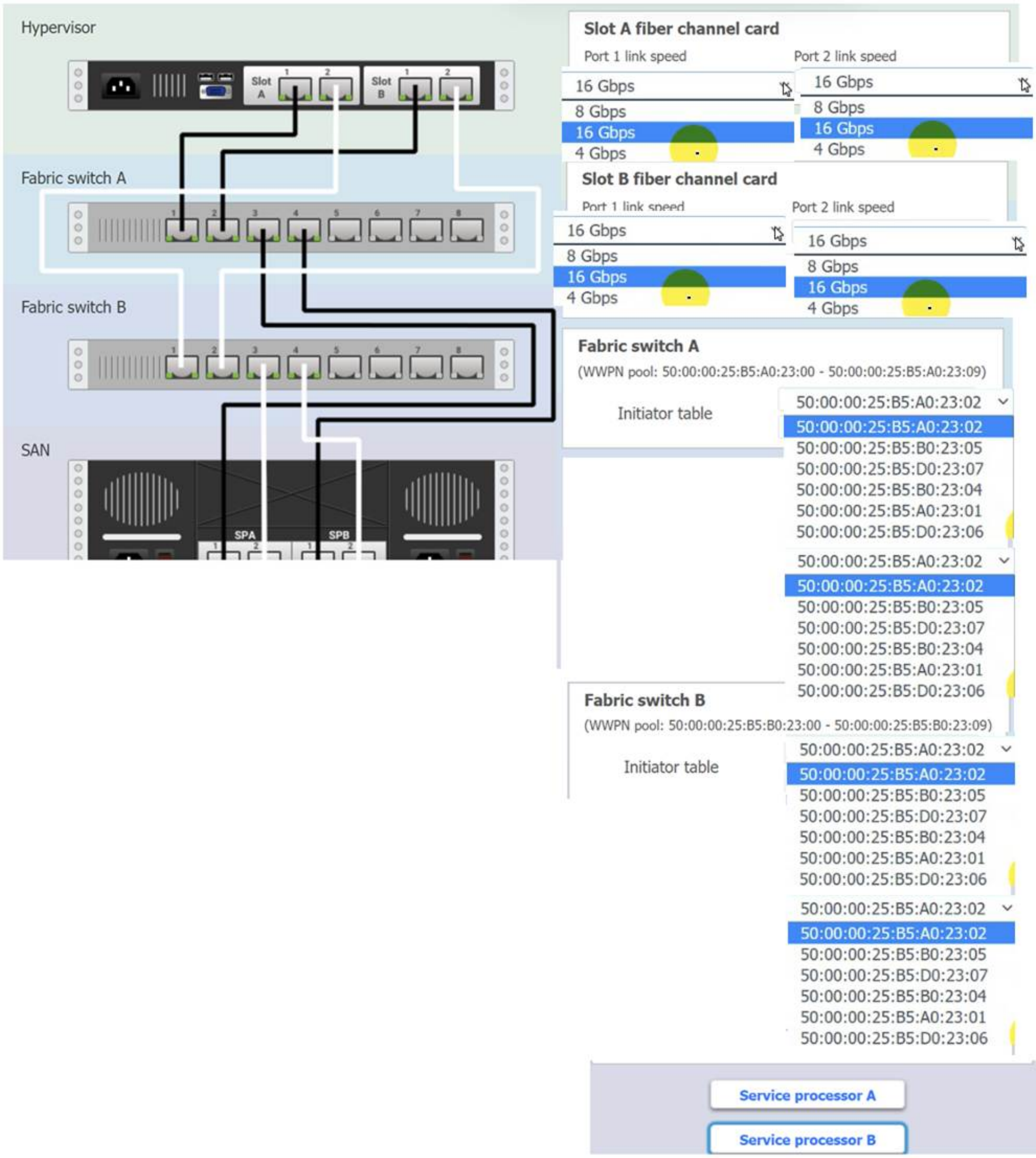
Fabric switch B

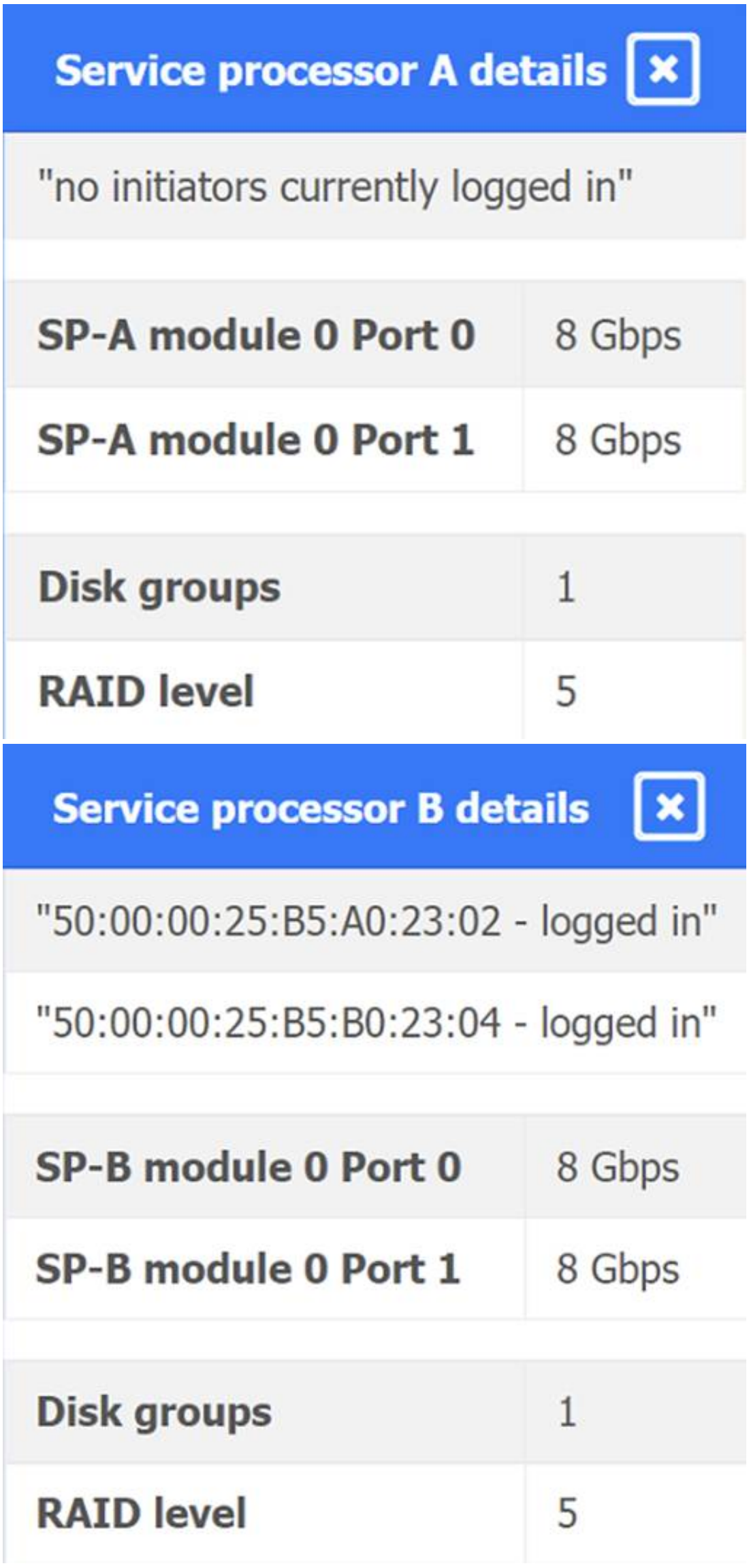
(WWPN pool: 50:00:00:25:B5:B0:23:00 - 50:00:00:25:B5:B0:23:09)

Initiator table: 50:00:00:25:B5:B0:23:04, 50:00:00:25:B5:A0:23:01

Service processor A

Service processor B

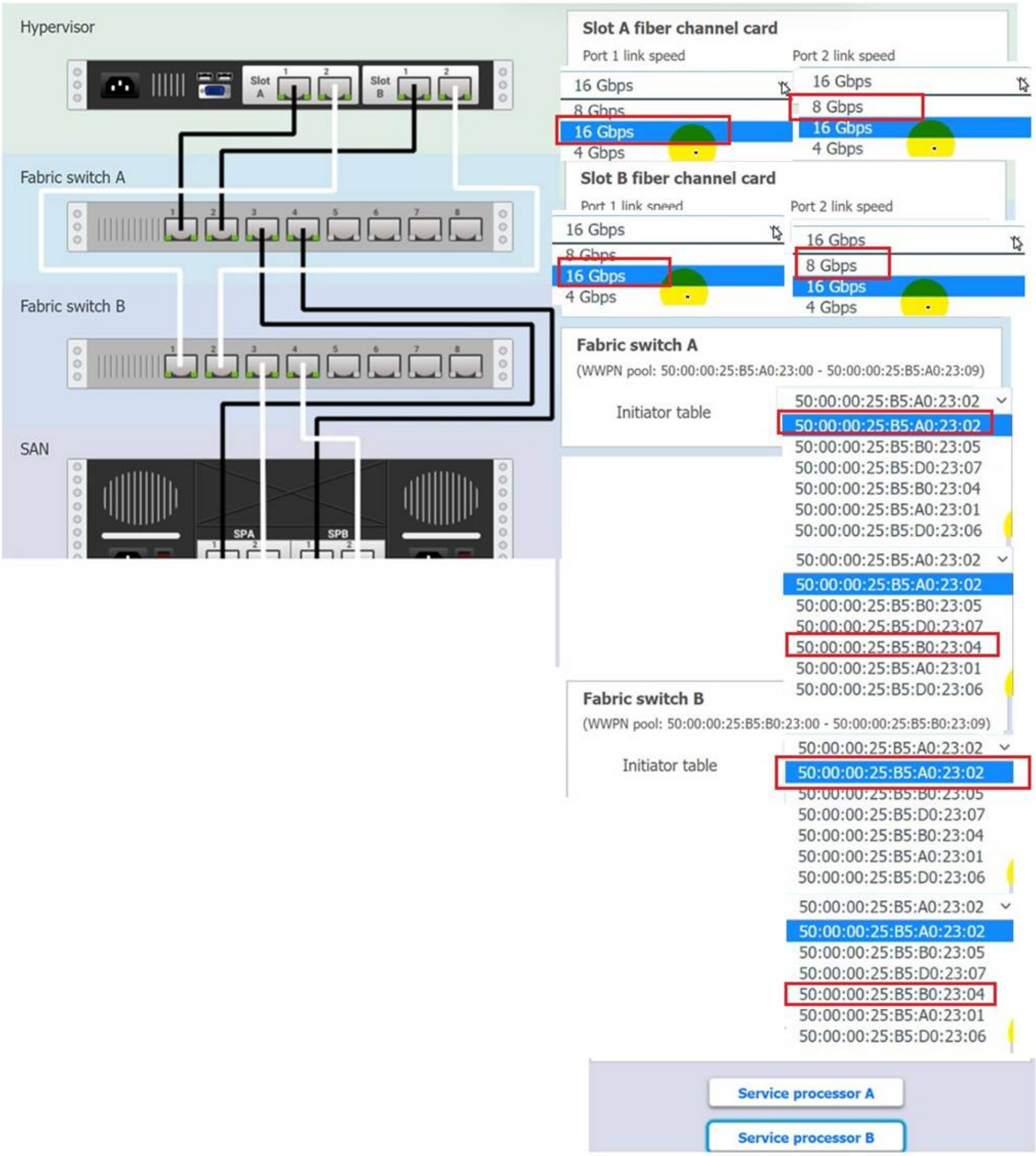

Hypervisor
Slot A
Slot B
Fabric switch A
Fabric switch B
SAN
SPA
SPB
Slot A fiber channel card
Port 1 link speed
Port 2 link speed
16 Gbps
8 Gbps
16 Gbps
4 Gbps
Slot B fiber channel card
Port 1 link speed
Port 2 link speed
16 Gbps
8 Gbps
16 Gbps
4 Gbps
Fabric switch A
(WWPN pool: 50:00:00:25:B5:A0:23:00 - 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
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



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 96
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

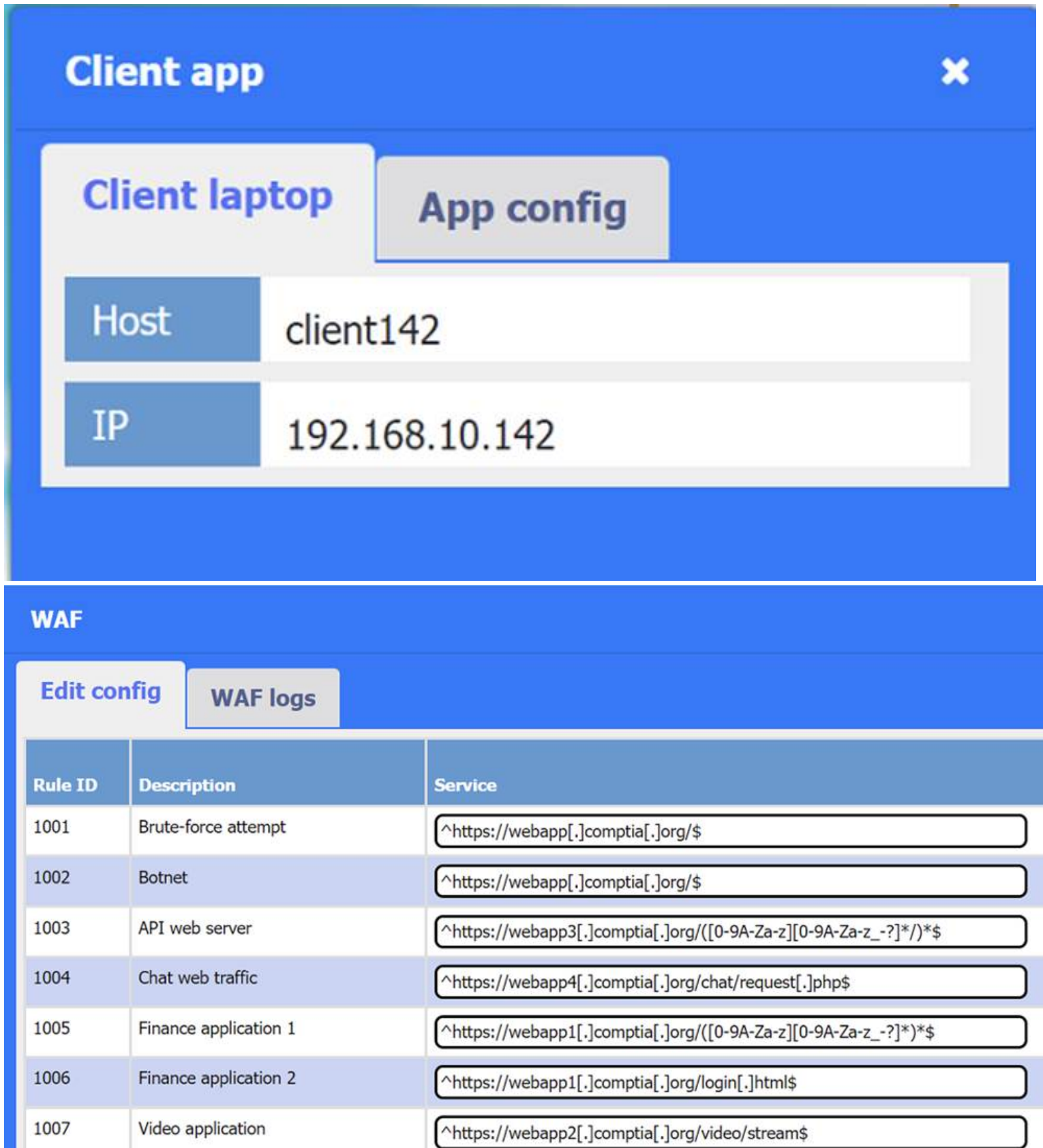
SVC_Host	SVC_Name	SVC IP	SVC_Port
webapp4	CHAT	10.22.10.41	443

Client app

Client app

Client laptop | App config

https_enabled	true
cert_status	valid
start	login



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 98
A customer relationship management application, which is hosted in a public cloud IaaS network, is vulnerable to a remote command execution vulnerability.
Which of the following is the best solution for the security engineer to implement to prevent the application from being exploited by basic attacks?

A. IPS
B. ACL
C. DLP
D. WAF

Answer: D

Explanation:
A Web Application Firewall (WAF) is the best solution to implement for a public cloud IaaS hosted customer relationship management application vulnerable to remote command execution attacks. WAFs are designed to monitor, filter, and block malicious HTTP/S traffic to and from a web application to protect against various application layer attacks, including remote command execution. References: CompTIA Cloud+ Study Guide (Exam CV0-004) - Chapter on Security in the Cloud

NEW QUESTION 101
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 102
An IT security team wants to ensure that the correct parties are informed when a specific user account is signed in. Which of the following would most likely allow an administrator to address this concern?

A. Creating an alert based on user sign-in criteria
B. Aggregating user sign-in logs from all systems
C. Enabling the collection of user sign-in logs
D. Configuring the retention of all sign-in logs

Answer: A

Explanation:
To ensure that the correct parties are informed when a specific user account is signed in, the best action is to create an alert based on user sign-in criteria. This alert can notify administrators or security personnel when the specified event occurs.References: Security monitoring and alerting are critical components of managing cloud environments securely, as discussed in the CompTIA Cloud+ certification.

NEW QUESTION 105
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?

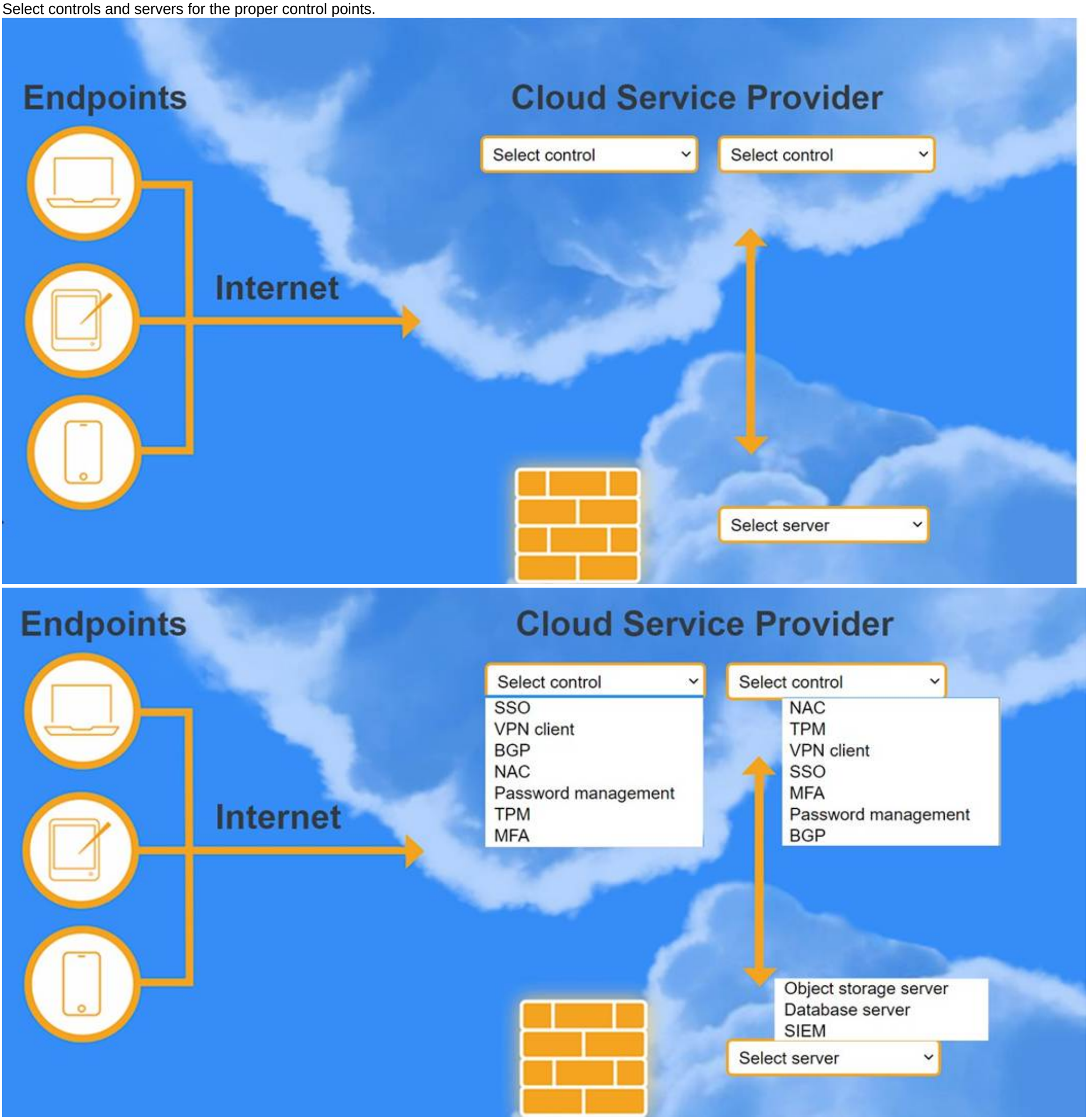
A. Splicing
B. Rotation

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

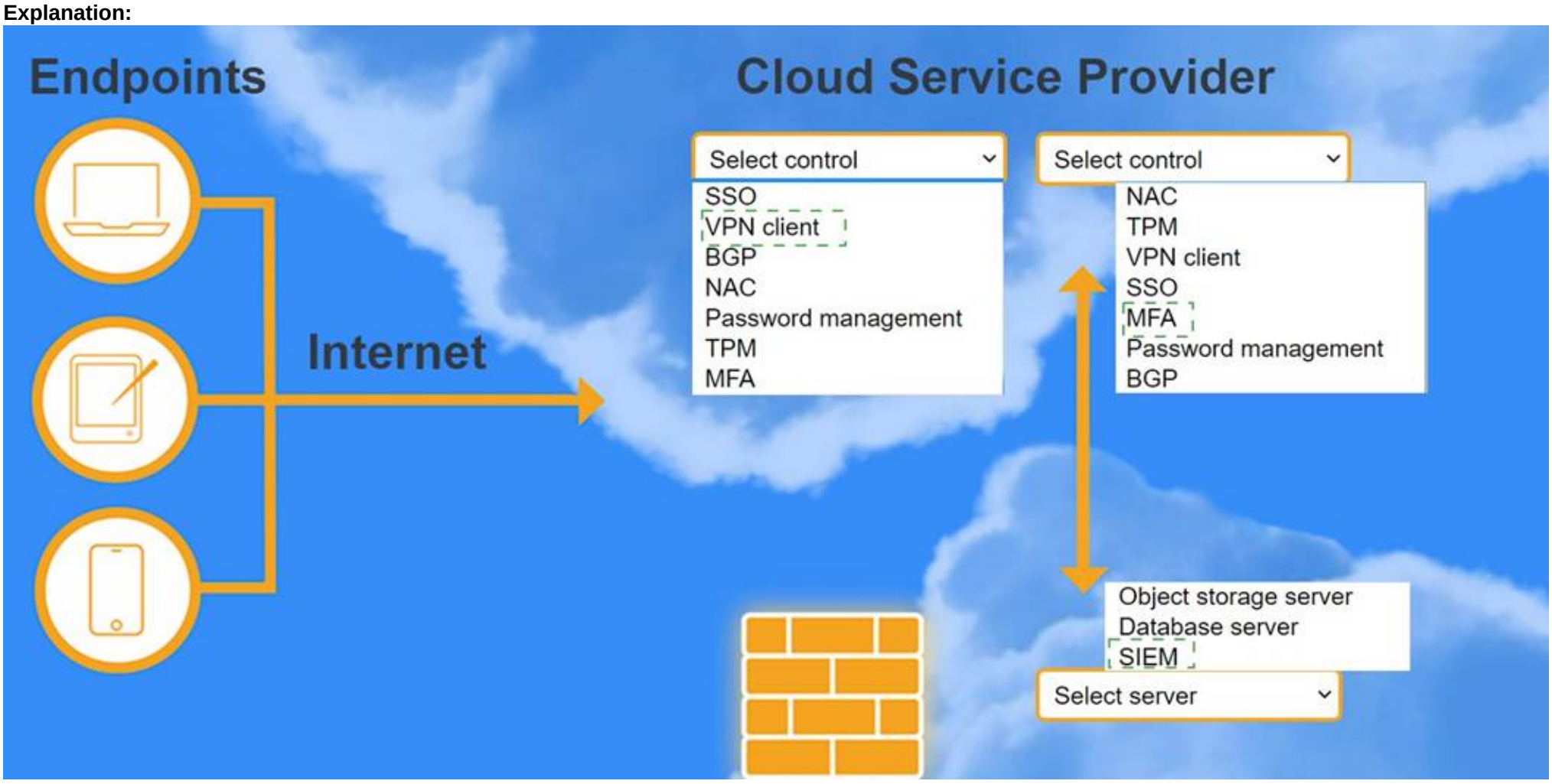
NEW QUESTION 106
HOTSPOT
A highly regulated business is required to work remotely, and the risk tolerance is very low. You are tasked with providing an identity solution to the company cloud that includes the following:
? secure connectivity that minimizes user login
? tracks user activity and monitors for anomalous activity
? requires secondary authentication
INSTRUCTIONS
Select controls and servers for the proper control points.



A. Mastered
B. Not Mastered

Answer: A

Explanation:



NEW QUESTION 111
A cloud solutions architect needs to design a solution that will collect a report and upload it to an object storage service every time a virtual machine is gracefully or non-gracefully stopped. Which of the following will best satisfy this requirement?

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

Answer: A

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

NEW QUESTION 113
A software engineer is integrating an application lo The cloud that is web socket based. Which of the following applications is the engineer most likely deploying?
A. Image-sharing
B. Data visualization
C. Chat
D. File transfer

Answer: C

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

NEW QUESTION 118
A developer is building an application that has multiple microservices that need to communicate with each other. The developer currently manually updates the IP address of each service. Which of the following best resolves the communication issue and automates the process?

A. Service discovery
B. Fan-out
C. Managed container services
D. DNS

Answer: A

Explanation:

Service discovery is a key component in microservices architectures, allowing services to dynamically discover and communicate with each other. By implementing service discovery, the developer can automate the process of updating service addresses, resolving the communication issue without manual updates to IP addresses, thus ensuring seamless interaction between the microservices. References: CompTIA Cloud+ resources and microservices architecture principles

NEW QUESTION 120
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 125
A systems engineer is migrating a batch of 25 VMs from an on-premises compute cluster to a public cloud using the public cloud's migration agent. The migration job shows data copies at a rate of 250Mbps. After five servers migrate, the data copies at a rate of 25Mbps. Which of the following should the engineer review first to troubleshoot?

A. The on-premises VM host hardware utilization
B. The on-premises ISP throttling rate
C. The IOPS on the SAN backing the on-premises cluster
D. The compute utilization of the VMs being migrated

Answer: A

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

NEW QUESTION 126
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 131
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
RAM: Select
Disk Speed: Select
Processor Usage (%)
11 5 31 23 16 9 21
RAM Usage (%)
15 15 15 15 15 15 15
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: Select
RAM: Select
Disk Speed: Select
Processor Usage (%)
65 55 68 72 63 69 67
RAM Usage (%)
80 80 80 80 80 80 80
Disk Throughput (MBps)
86 95 74 79 91 95 87
1 2 3 4 5 6 7
October 2020


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
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: Select
RAM: 2 vCPUs
Disk Speed: 6 vCPUs
4 vCPUs
8 vCPUs
1 vCPU
RAM: Select
32GB
16GB
128GB
1GB
8GB
4GB
64GB
2GB
Disk Speed: Select
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 132
An administrator is setting up a cloud backup solution that requires the following features:
• Cost effective
• Granular recovery
• Multilocation
Which of the following backup types best meets these requirements?

A. Off-site, full, incremental, and differential
B. Cloud site, full, and differential
C. On-sit
D. full, and incremental
E. On-sit
F. full, and differential

Answer: A

Explanation:
An off-site cloud backup solution that offers full, incremental, and differential backups would best meet the requirements of being cost-effective, allowing granular recovery, and supporting multi-location storage. This combination allows for comprehensive backup strategies that can be tailored to the company's needs while optimizing storage costs.References: Backup strategies, including full, incremental, and differential backups, are an integral part of data management and protection strategies discussed in the CompTIA Cloud+ objectives.

NEW QUESTION 134
A SaaS provider introduced new software functionality for customers as part of quarterly production enhancements. After an update is implemented, users cannot locate certain transactions from an inbound integration. During the investigation, the application owner finds the following error in the logs:
Error: REST API - Deprecated call is no longer supported in this release.
Which of the following is the best action for the application owner to take to resolve the issue?

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

Answer: A

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

NEW QUESTION 138
A cloud administrator needs to collect process-level, memory-usage tracking for the virtual machines that are part of an autoscaling group. Which of the following is the best way to accomplish the goal by using cloud-native monitoring services?

A. Configuring page file/swap metrics
B. Deploying the cloud-monitoring agent software
C. Scheduling a script to collect the data
D. Enabling memory monitoring in the VM configuration

Answer: B

Explanation:
To collect process-level, memory-usage tracking for virtual machines, deploying cloud- monitoring agent software is the best approach. The agent can gather detailed system metrics and send them to the cloud-native monitoring services for analysis and visualization. References: CompTIA Cloud+ Study Guide (Exam CV0-004) - Chapter on Cloud Monitoring

NEW QUESTION 142
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 143
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 148
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 151
Which of the following is used to detect signals and measure physical properties, such as the temperature of the human body?

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

Answer: C

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

NEW QUESTION 153
A government agency in the public sector is considering a migration from on premises to the cloud. Which of the following are the most important considerations for this cloud migration? (Select two).

A. Compliance
B. laaS v
C. SaaS
D. Firewall capabilities
E. Regulatory
F. Implementation timeline
G. Service availability

Answer: AD

Explanation:
For a government agency considering cloud migration, compliance and regulatory considerations are of utmost importance. The agency must ensure that the migration aligns with legal requirements, industry standards, and government regulations specific to the public sector.References: Compliance and regulatory considerations are crucial factors in the cloud migration process for government entities, as emphasized in the CompTIA Cloud+ certification.

NEW QUESTION 158
The company's IDS has reported an anomaly. The cloud engineer remotely accesses the cloud instance, runs a command, and receives the following information:

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

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

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

Answer: A

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

NEW QUESTION 163
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 164
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 169
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 171
A systems administrator is provisioning VMs according to the following requirements:
· A VM instance needs to be present in at least two data centers.
. During replication, the application hosted on the VM tolerates a maximum latency of one second.
· When a VM is unavailable, failover must be immediate.
Which of the following replication methods will best meet these requirements?

A. Snapshot
B. Transactional
C. Live
D. Point-in-time

Answer: C

Explanation:
Live replication is the process of continuously copying data in real-time to ensure that an exact copy is available in another location. Given the requirement for immediate failover and the presence of the VM instance in at least two data centers, live replication is the best method to meet the one-second maximum latency tolerance and ensure immediate availability in the event of a VM becoming unavailable. References: CompTIA Cloud+ Study Guide (Exam CV0-004) - Chapter on Disaster Recovery and Replication Methods

NEW QUESTION 173
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 174

A cloud engineer needs to determine a scaling approach for a payroll-processing solution that runs on a biweekly basis. Given the complexity of the process, the deployment to each new VM takes about 25 minutes to get ready. Which of the following would be the best strategy?

A. Horizontal
B. Scheduled
C. Trending
D. Event

Answer: B

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

NEW QUESTION 179
Which of the following industry standards mentions that credit card data must not be exchanged or stored in cleartext?

A. CSA
B. GDPR
C. SOC2
D. PCI-DSS

Answer: D

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

NEW QUESTION 182
A security team recently hired multiple interns who all need the same level of access. Which of the following controls should the security team implement to provide access to the cloud environment with the least amount of overhead?

A. MFA
B. Discretionary access
C. Local user access
D. Group-based access control

Answer: D

Explanation:
Implementing group-based access control is the most efficient way to provide access to multiple interns who require the same level of access. This method allows the security team to assign permissions to a group rather than to individual user accounts, thereby reducing the administrative overhead involved in managing access rights for each intern individually. References: CompTIA Cloud+ Certification Study Guide (Exam CV0-004) by Scott Wilson and Eric Vanderburg

NEW QUESTION 185
A company recently set up a CDN for its photography and image-sharing website. Which of the following is the most likely reason for the company's action?

A. To eliminate storage costs
B. To improve site speed
C. To enhance security of static assets
D. To prevent unauthorized access

Answer: B

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

NEW QUESTION 189
Which of the following best explains the concept of migrating from on premises to the cloud?

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

Answer: B

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

NEW QUESTION 191
An engineer made a change to an application and needs to select a deployment strategy that meets the following requirements:
• Is simple and fast
• Can be performed on two Identical platforms
Which of the following strategies should the engineer use?

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

Answer: A

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

NEW QUESTION 196
A developer is testing code that will be used to deploy a web farm in a public cloud. The main code block is a function to create a load balancer and a loop to create 1.000 web servers, as shown below:

```
my_load_balancer()
for x in range(1000):
    my_web_server()
```

The developer runs the code against the company's cloud account and observes that the load balancer is successfully created, but only 100 web servers have been created. Which of the following should the developer do to fix this issue?

A. Request an increase of Instance quota.
B. Run the code multiple times until all servers are created.
C. Check the my_web_server () function to ensure it is using the right credentials.
D. Place the my_load_balancer () function after the loop.

Answer: A

Explanation:
The developer should request an increase of the instance quota from the cloud provider. Cloud services often have a limit on the number of instances that can be created, which is known as an instance quota. If the load balancer is successfully created but the number of web servers is limited to 100, it suggests that the quota has been reached. Increasing the quota will allow the creation of additional web server instances up to the desired number.References: The scenario reflects an understanding of cloud resource management and limitations, which is a part of the CompTIA Cloud+ curriculum, specifically under the domain of Management and Technical Operations.

NEW QUESTION 199
A cloud engineer needs to deploy a new version of a web application to 100 servers. In the past, new version deployments have caused outages. Which of the following deployment types should the cloud engineer implement to prevent the outages from happening this time?

A. Rolling
B. Blue-green
C. Canary
D. Round-robin

Answer: C

Explanation:
A canary deployment is a pattern that reduces the risk of introducing a new software version in production by slowly rolling out the change to a small subset of users before rolling it out to the entire infrastructure. It's an effective strategy to prevent outages since it allows for monitoring and quick rollback if issues arise without affecting all users.References: Canary releases are part of deployment strategies that can help mitigate the risk of outages during updates, a concept included in the CompTIA Cloud+ curriculum.

NEW QUESTION 203
A company has developed an online trading platform. The engineering team selected event-based scaling for the platform's underlying resources. The platform resources scale up with every 2,000 subscribed users. The engineering team finds out that although compute utilization is low, scaling is still occurring. Which of the following statements best explains why this is the case?

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

Answer: D

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

NEW QUESTION 204
A cloud administrator needs to distribute workloads across remote data centers for redundancy reasons. Which of the following deployment strategies would eliminate downtime, accelerate deployment, and remain cost efficient?

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

Answer: C

Explanation:
Blue-green deployment is the strategy that can eliminate downtime, accelerate deployment, and remain cost-efficient. It involves running two identical production environments, only one of which is live at any given time (blue or green). When it's time to deploy, the new version is released to the inactive environment (green), which is then thoroughly tested. Once ready, the traffic is switched over, making the green environment live.References: Deployment strategies and their impact on operations are a significant topic within the CompTIA Cloud+ examination objectives.

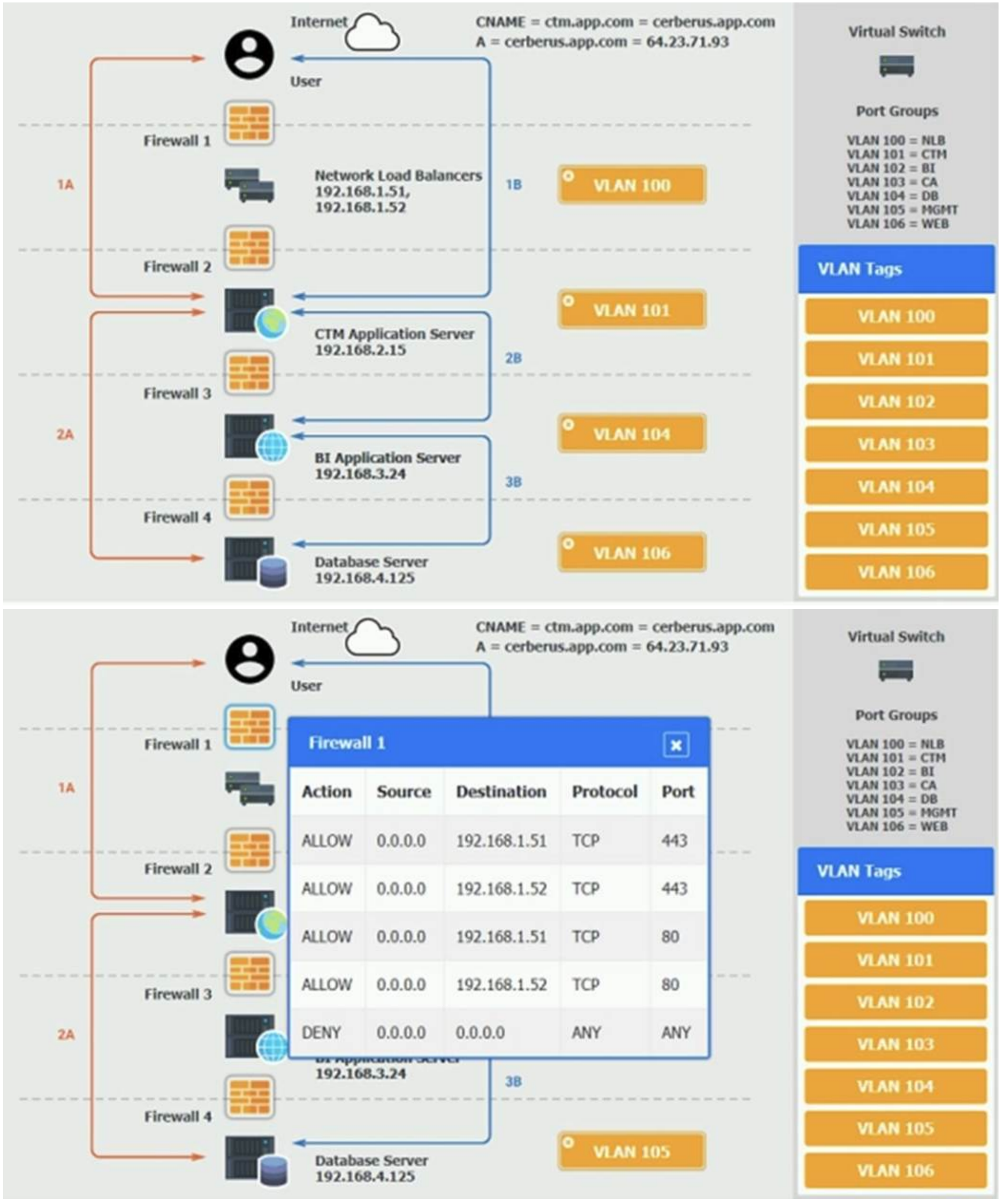
NEW QUESTION 207
Which of the following AI/ML technologies consumes text input to discern tone?

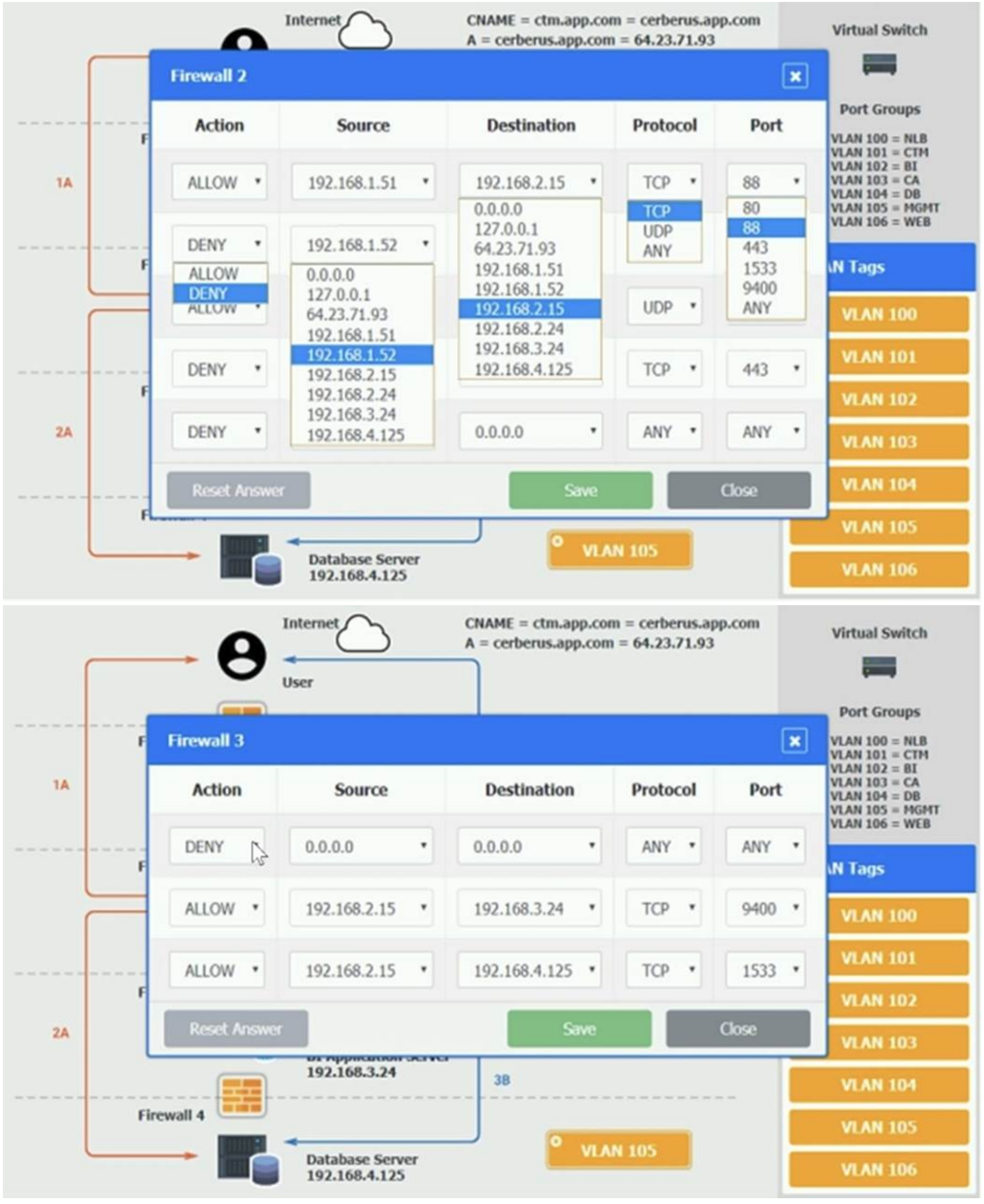
A. Text recognition
B. Computer vision
C. Visual recognition
D. Sentiment analysis

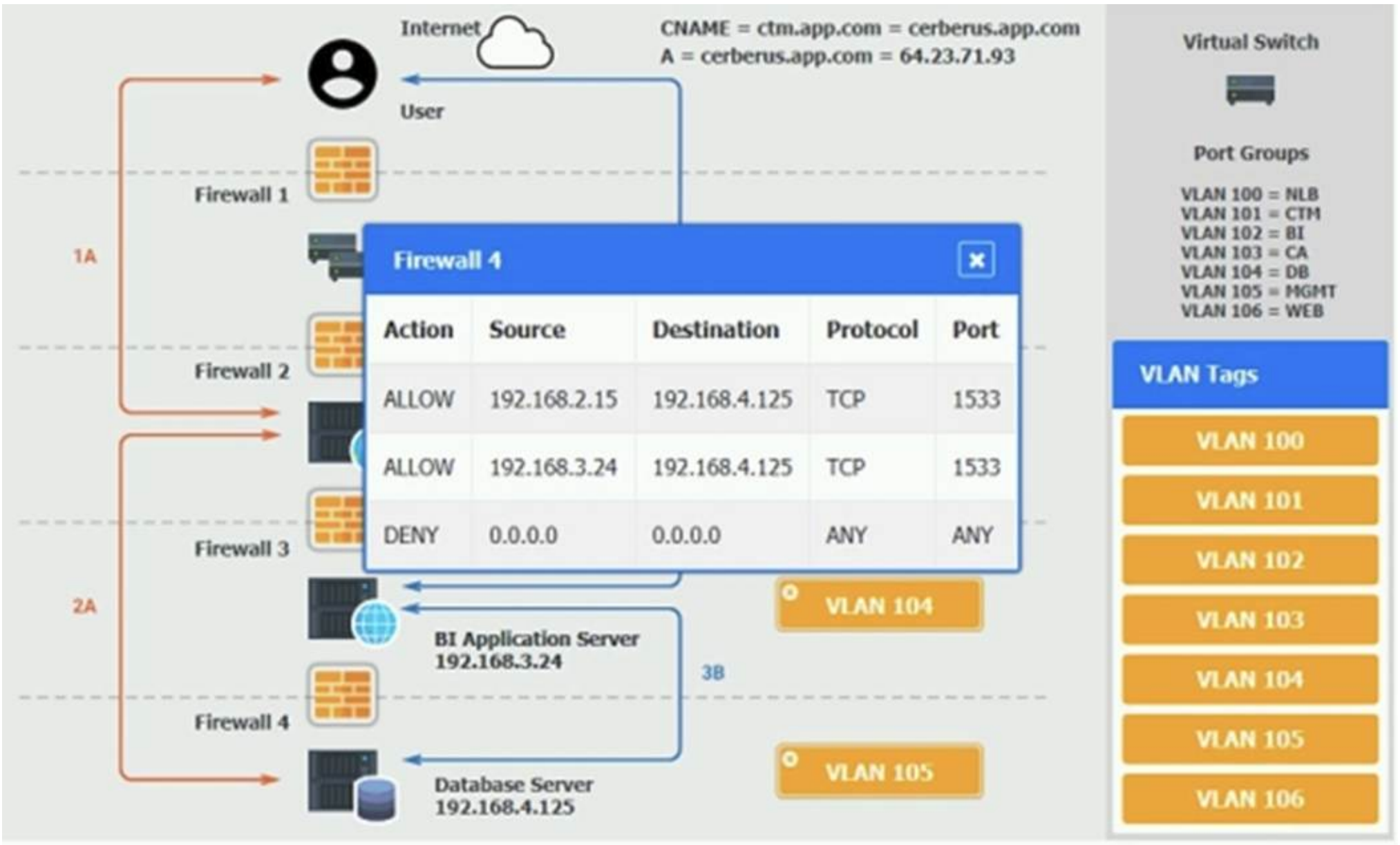
Answer: D

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 212
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.


Internet
CNAME = ctm.app.com = cerberus.app.com
A = cerberus.app.com = 64.23.71.93
User
Firewall 1
Network Load Balancers
192.168.1.51,
192.168.1.52
1A
1B
VLAN 100
Firewall 2
VLAN 101
CTM Application Server
192.168.2.15
2B
Firewall 3
VLAN 104
2A
BI Application Server
192.168.3.24
3B
Firewall 4
VLAN 106
Database Server
192.168.4.125
Virtual Switch
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
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
VLAN 105


Internet
CNAME = ctm.app.com = cerberus.app.com
A = cerberus.app.com = 64.23.71.93
Virtual Switch
Port Groups
VLAN 100 = NLB
VLAN 101 = CTM
VLAN 102 = BI
VLAN 103 = CA
VLAN 104 = DB
VLAN 105 = MGMT
VLAN 106 = WEB
Firewall 2
Action
Source
Destination
Protocol
Port
ALLOW
192.168.1.51
192.168.2.15
TCP
88
DENY
192.168.1.52
UDP
443
DENY
TCP
443
DENY
0.0.0.0
ANY
ANY
Reset Answer
Save
Close
1A
2A
Database Server
192.168.4.125
VLAN 105
VLAN 100
VLAN 101
VLAN 102
VLAN 103
VLAN 104
VLAN 105
VLAN 106
User
Firewall 3
DENY
0.0.0.0
ANY
ALLOW
192.168.2.15
192.168.3.24
TCP
9400
ALLOW
192.168.2.15
192.168.4.125
TCP
1533
3B
Firewall 4
192.168.3.24



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 214
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 216
A cloud administrator is building a company-standard VM image, which will be based on a public image. Which of the following should the administrator implement to secure the image?

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

Answer: C

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

NEW QUESTION 218

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 220
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 222
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 223
A company recently migrated to a public cloud provider. The company's computer incident response team needs to configure native cloud services tor detailed logging. Which of the following should the team implement on each cloud service to support root cause analysis of past events? {Select two).

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

Answer: AC

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

NEW QUESTION 228
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 233
A cloud service provider requires users to migrate to a new type of VM within three months. Which of the following is the best justification for this requirement?

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

Answer: D

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

NEW QUESTION 237
Two CVEs are discovered on servers in the company's public cloud virtual network. The CVEs are listed as having an attack vector value of network and CVSS score of 9.0. Which
of the following actions would be the best way to mitigate the vulnerabilities?

A. Patching the operating systems
B. Upgrading the operating systems to the latest beta
C. Encrypting the operating system disks
D. Disabling unnecessary open ports

Answer: A

Explanation:
For vulnerabilities with a high CVSS score and a network attack vector, the most effective and direct mitigation action is to patch the operating systems. Patching addresses the specific vulnerabilities that have been identified and helps to secure the servers against the known exploits that could take advantage of these CVEs. References: CompTIA Cloud+ Guide to Cloud Computing (ISBN: 978-1-64274-282-2)

NEW QUESTION 240
A cloud engineer is in charge of deploying a platform in an laaS public cloud. The application tracks the state using session cookies, and there are no affinity restrictions.
Which of the following will help the engineer reduce monthly expenses and allow the application to provide the service?

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

Answer: D

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

NEW QUESTION 242
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 244
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 247
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 251
A social networking company operates globally. Some users from Brazil and Argentina are reporting the following error: website address was not found. Which of the following is the most likely cause of this outage?

A. Client DNS misconfigutation
B. Regional DNS provider outage
C. DNS server misconfiguration
D. DNS propagation issues

Answer: B

Explanation:
The most likely cause of the outage, with users from specific regions like Brazil and Argentina reporting an error that the website address was not found, is a regional DNS provider outage. This type of outage would affect users in particular areas, preventing domain name resolution and leading to the reported error.References: Regional outages and their impact on service availability are discussed within the Cloud Concepts domain, which includes understanding the importance of DNS in cloud services, as per the CompTIA Cloud+ objectives.

NEW QUESTION 254
Once a change has been made to templates, which of the following commands should a cloud architect use next to deploy an laaS platform?

A. git pull
B. git fetch
C. git commit
D. git push

Answer: D

Explanation:
After making changes to templates, a cloud architect should use thegit push command to deploy an IaaS platform. This command is used to upload the local repository content to a remote repository, making the new or changed templates available for the next deployment.References: Version control practices and commands, such as using git for IaaS template management, are covered under the best practices for cloud deployments in the CompTIA Cloud+ certification.

NEW QUESTION 258
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