



CompTIA

Exam Questions CNX-001

CompTIA CloudNetX Exam

NEW QUESTION 1

A company is experiencing numerous network issues and decides to expand its support team. The new junior employees will need to be onboarded in the shortest time possible and be able to troubleshoot issues with minimal assistance. Which of the following should the company create to achieve this goal?

- A. Statement of work documenting what each junior employee should do when troubleshooting
- B. Clearly documented runbooks for networking issues and knowledge base articles
- C. Physical and logical network diagrams of the entire networking infrastructure
- D. A mentor program for guiding each junior employee until they are familiar with the networking infrastructure

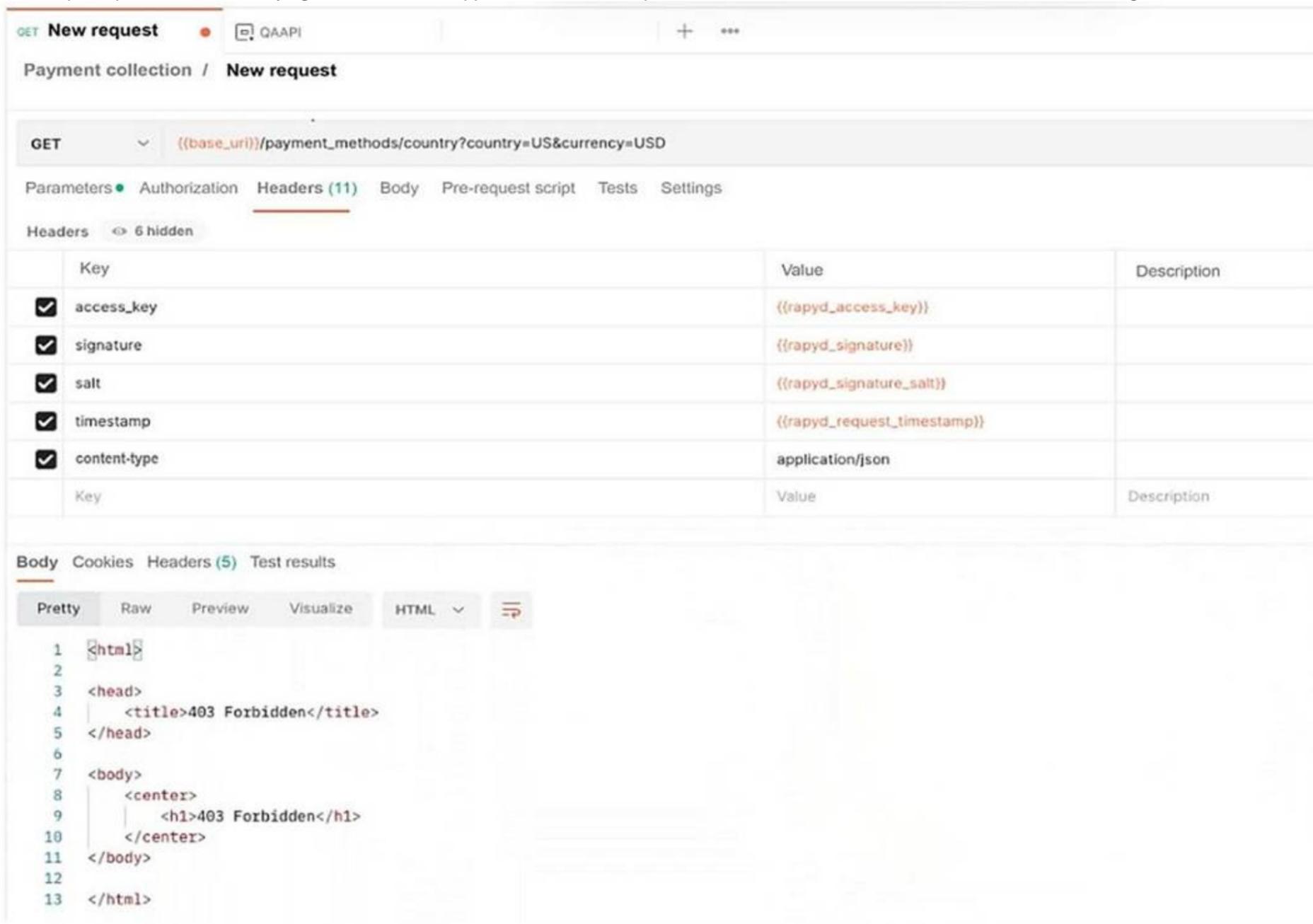
Answer: B

Explanation:

Runbooks provide step-by-step troubleshooting procedures, and a solid knowledge base captures known issues and resolutions. Together they let new team members ramp up quickly and resolve common network problems with minimal hand-holding.

NEW QUESTION 2

A developer reports errors when trying to access a web application. The developer uses Postman to troubleshoot and receives the following error:



Which of the following is the cause of the issue?

- A. Requested element not found
- B. Lack of user authentication
- C. Too restrictive NGFW rule
- D. Incorrect HTTP redirection

Answer: B

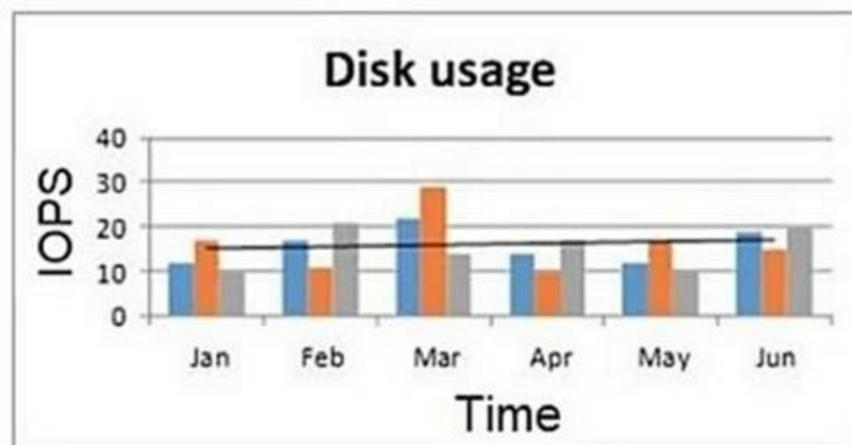
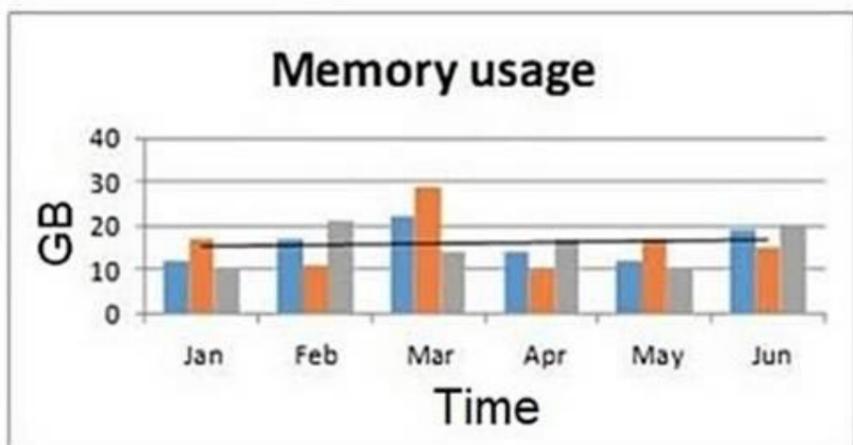
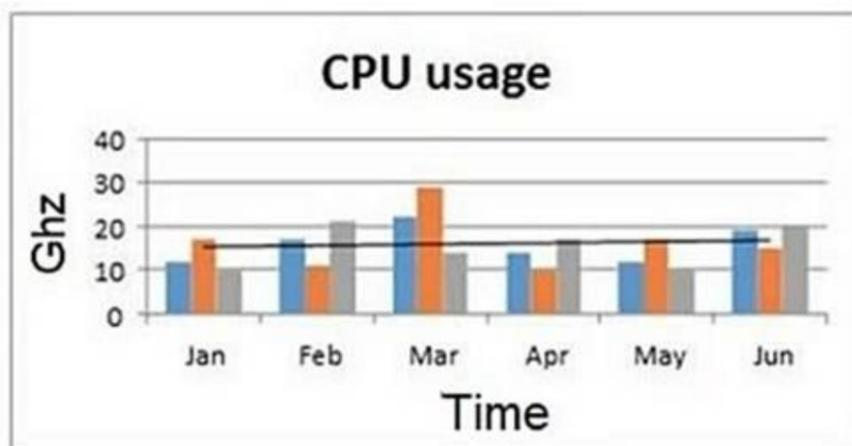
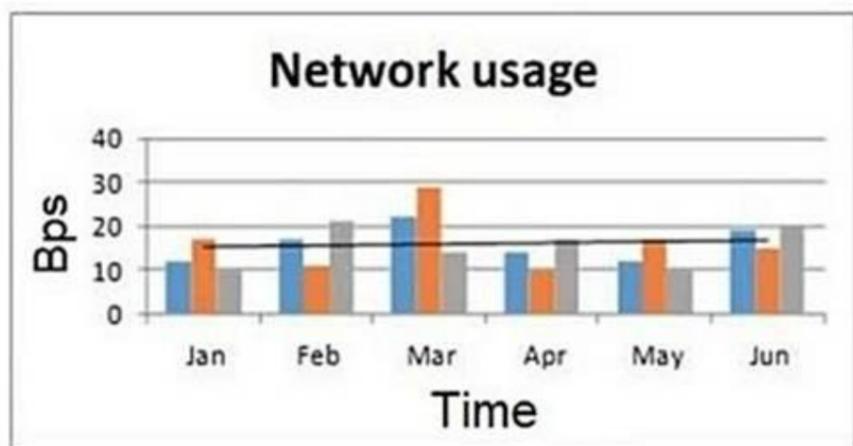
Explanation:

The 403 Forbidden HTML response indicates the API is rejecting the call due to missing or invalid credentials (no valid access key/signature), not because of a missing resource (404), a networklevel block (you??d see a timeout or TCP reject), or an HTTP redirect. Proper authentication headers with a valid signature are required to avoid the 403 error.

NEW QUESTION 3

A network engineer at an e-commerce organization must improve the following dashboard due to a performance issue on the website:

Website performance monitoring



Which of the following is the most useful information to add to the dashboard for the operations team's?

- A. 404 errors
- B. Concurrent users
- C. Number of orders
- D. Number of active incidents

Answer: B

Explanation:

Adding a concurrent-user count gives you the key context you're missing: it ties spikes in CPU, memory, disk I/O, and network traffic directly to how many people are actively hitting the site. You can then see whether performance issues align with increases in user load, enabling more targeted capacity planning and troubleshooting.

NEW QUESTION 4

A company hosts a cloud-based e-commerce application and only wants the application accessed from certain locations. The network team configures a cloud firewall with WAF enabled, but users can access the application globally. Which of the following should the network team do?

- A. Reconfigure WAF rules.
- B. Configure a NAT gateway.
- C. Implement a CDN.
- D. Configure geo-restriction.

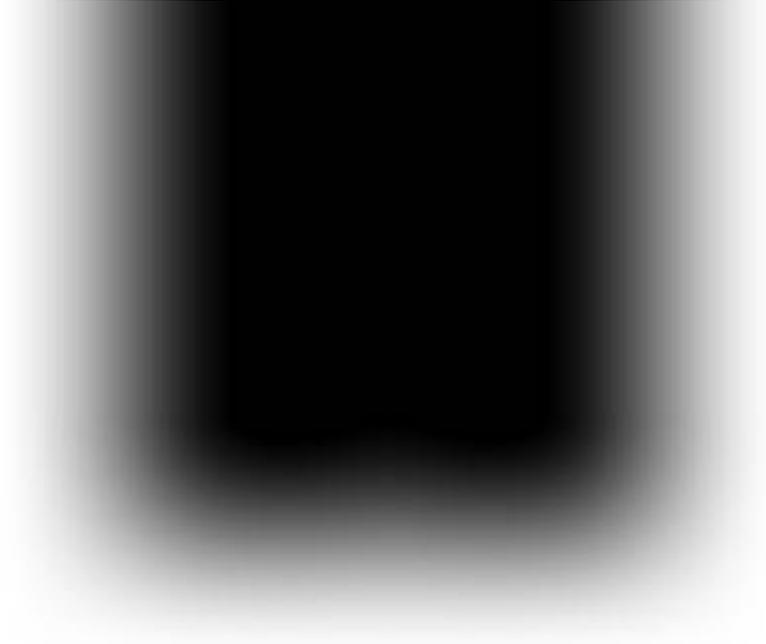
Answer: D

Explanation:

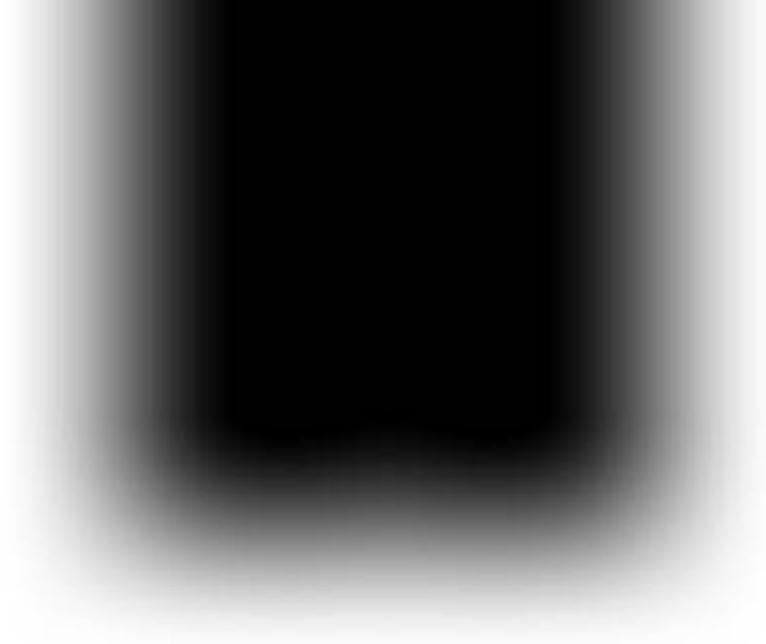
Geo-restriction lets you block or allow traffic based on the requester's geographic region, preventing access from locations you haven't authorized.

NEW QUESTION 5

A user reports an issue connecting to a database server. The front-end application for this database is hosted on the company's web server. The network engineer has changed the network subnet that the company servers are located on along with the IP addresses of the servers. These are the new configurations:



New subnet for the servers is 10.10.10.64/27



Web server IP address is 10.10.10.101

Database server IP is 10.10.10.93

Which of the following is most likely causing the user's issue?

- A. The web application server is not forwarding the requests.
- B. The database server firewall is blocking the port to the database.
- C. The DNS server is not resolving properly.
- D. The web server does not have the correct network configuration.

Answer: D

Explanation:

With a /27 mask on 10.10.10.64/27, valid host addresses run from 10.10.10.65 through 10.10.10.94. The database server's IP (10.10.10.93) is in that range, but the web server's IP (10.10.10.101) falls outside it—so it's mis-configured and cannot reach the database.

NEW QUESTION 6

A security architect needs to increase the security controls around computer hardware installations. The requirements are:
Auditable access logs to computer rooms
Alerts for unauthorized access attempts
Remote visibility to the inside of computer rooms
Which of the following controls best meet these requirements? (Choose two.)

- A. Video surveillance
- B. NFC access cards
- C. Motion sensors
- D. Locks and keys
- E. Security patrols
- F. Automated lighting

Answer: AB

Explanation:

Video surveillance provides continuous, remote visibility into computer rooms and can be integrated with analytics to generate alerts on unauthorized presence. NFC access cards enforce controlled entry with a system that logs every card swipe and issues alerts on failed or out-of-hours attempts, giving you auditable access records and immediate notifications of any suspicious activity.

NEW QUESTION 7

A company hosts its applications on the cloud and is expanding its business to Europe. The company must comply with General Data Protection Regulation to limit European customers' access to data. The network team configures the firewall rules but finds that some customers in the United States can access data hosted in Europe. Which of the following is the best option for the network team to configure?

- A. SASE
- B. Network security groups
- C. CDN
- D. Geofencing rule

Answer: D

Explanation:

Using a geofencing (georestriction) policy lets you block or allow traffic based on the client's geographic location. This ensures that only users in approved regions (e.g., the United States) can reach the European-hosted data, effectively preventing unintended European customer access without complex IP ACLs.

NEW QUESTION 8

A network architect is designing a new network for a rural hospital system. Given the following requirements:
*Highly available

*Consistent data transmission

*Resilient to simultaneous failures

Which of the following topologies should the architect use?

- A. Collapsed core
- B. Hub-and-spoke
- C. Mesh
- D. Star

Answer: D

Explanation:

A full-mesh topology provides multiple redundant, direct paths between every site, eliminating single points of failure, ensuring consistent transmission even if one or more links fail, and maximizing overall availability.

NEW QUESTION 9

A network engineer is establishing a wireless network for handheld inventory scanners in a manufacturing company's warehouse. The engineer needs an authentication mechanism for these scanners that uses the Wi-Fi network and works with the company's Active Directory. The business requires that the solution authenticate the users and authorize the scanners. Which of the following provides the best solution for authentication and authorization?

- A. TACACS+
- B. RADIUS
- C. LDAP
- D. PKI

Answer: B

Explanation:

Using a RADIUS server with 802.1X on the Wi-Fi infrastructure allows the scanners (and their users) to be authenticated against Active Directory and mapped to the correct authorization policies. TACACS+ is geared toward device management, LDAP alone doesn't handle the Wi-Fi 802.1X handshake, and PKI by itself wouldn't provide the user-to-device authorization flow needed. RADIUS gives you both authentication and authorization tied into AD.

NEW QUESTION 10

A global company has depots in various locations. A proprietary application was deployed locally at each of the depots, but issues with getting the consolidated data instantly occurred. The Chief Information Officer decided to centralize the application and deploy it in the cloud. After the cloud deployment, users report the application is slow. Which of the following is most likely the issue?

- A. Throttling
- B. Overutilization
- C. Packet loss
- D. Latency

Answer: D

Explanation:

Centralizing the application in the cloud introduces longer round-trip times for geographically dispersed users. The increased propagation delay (latency) is the most likely cause of the perceived slowness.

NEW QUESTION 10

A company provides an API that runs on the public cloud for its customers. A fixed number of VMs host the APIs. During peak hours, the company notices a spike in usage that results in network communication speeds slowing down for all customers. The management team has decided that access for all customers should be fair and accessible at all times. Which of the following is the most cost-effective way to address this issue?

- A. Use an allow list for customers using APIs.
- B. Increase the number of VMs running APIs.
- C. Enable throttling on APIs.
- D. Increase the MTU on the VMs.

Answer: C

Explanation:

Implementing request throttling (rate limiting) lets you cap how many requests each customer can make per time unit. This ensures no single user can saturate the API servers, providing fair access across all customers without the recurring costs of adding more VMs.

NEW QUESTION 13

An application is hosted on a three-node cluster in which each server has identical compute and network performance specifications. A fourth node is scheduled to be added to the cluster with three times the performance as any one of the preexisting nodes. The network architect wants to ensure that the new node gets the same approximate number of requests as all of the others combined. Which of the following load-balancing methodologies should the network architect recommend?

- A. Round-robin
- B. Load-based
- C. Least connections
- D. Weighted

Answer: D

Explanation:

Assign each of the three original nodes a weight of 1 and the new high-performance node a weight of 3. With weighted balancing, the new node will receive $3 / (1 + 1 + 1 + 3) = 50\%$ of traffic - equal to the combined load on the other three.

NEW QUESTION 14

A network engineer is working on securing the environment in the screened subnet. Before penetration testing, the engineer would like to run a scan on the servers to identify the OS, application versions, and open ports. Which of the following commands should the engineer use to obtain the information?

- A. `tcpdump -ni eth0 src net 10.10.10.0/28`
- B. `nmap -A 10.10.10.0/28`
- C. `nc -v -n 10.10.10.x 1-1000`
- D. `hping3 -1 10.10.10.x -rand-dest -l eth0`

Answer: B

Explanation:

The `-A` flag enables aggressive scanning, which combines OS detection, version detection, script scanning, and traceroute to give you detailed information on hosts in the 10.10.10.0/28 range.

NEW QUESTION 19

A call center company provides its services through a VoIP infrastructure. Recently, the call center set up an application to manage its documents on a cloud application. The application is causing recurring audio losses for VoIP callers. The network administrator needs to fix the issue with the least expensive solution. Which of the following is the best approach?

- A. Adding a second internet link and physically splitting voice and data networks into different routes
- B. Configuring QoS rules at the internet router to prioritize the VoIP calls
- C. Creating two VLANs, one for voice and the other for data
- D. Setting up VoIP devices to use a voice codec with a higher compression rate

Answer: B

Explanation:

Prioritizing VoIP packets over the document-management traffic ensures that voice gets the necessary bandwidth and low latency even when the network is congested - all without the cost of new links or hardware.

NEW QUESTION 21

After a company migrated all services to the cloud, the security auditor discovers many users have administrator roles on different services. The company needs a solution that:

- Protects the services on the cloud. Limits access to administrative roles.
 - Creates a policy to approve requests for administrative roles on critical services within a limited time.
 - Forces password rotation for administrative roles. Audits usage of administrative roles.
- Which of the following is the best way to meet the company's requirements?

- A. Privileged access management
- B. Session-based token
- C. Conditional access
- D. Access control list

Answer: A

Explanation:

A Privileged Access Management (PAM) solution provides just-in-time elevation to administrative roles, enforces approval workflows with time-bound access, requires credential rotation, and offers comprehensive auditing of all privileged sessions, fully meeting the company's requirements.

NEW QUESTION 24

A cafe uses a tablet-based point-of-sale system. Customers are complaining that their food is taking too long to arrive. During an investigation, the following is noticed:

- Every kitchen printer did not print the orders. Payments are processing correctly.
 - The cloud-based system has record of the orders. This issue occurred when the cafe was busy.
- Which of the following is the best way to mitigate this issue?

- A. Updating the application
- B. Adding an access point exclusively for the kitchen
- C. Upgrading the kitchen printers' wireless dongles
- D. Assigning the kitchen printers static IP addresses

Answer: B

Explanation:

By dedicating a separate Wi-Fi access point to the printers, you isolate their traffic from the customer-facing tablets. This prevents congestion during busy periods, ensuring orders reliably print even when the main network is under heavy load.

NEW QUESTION 29

A cloud architect needs to change the network configuration at a company that uses GitOps to document and implement network changes. The Git repository uses `main` as the default branch, and the `main` branch is protected. Which of the following should the architect do after cloning the repository?

- A. Use the `main` branch to make and commit the changes back to the remote repository.
- B. Create a new branch for the change, then create a pull request including the changes.
- C. Check out the `development` branch, then perform and commit the changes back to the remote repository.

D. Rebase the remote main branch after making the changes to implement.

Answer: B

Explanation:

Because main is protected, you must make your network-configuration edits on a separate feature branch and submit them via a pull request. This preserves the integrity of the protected branch and aligns with GitOps best practices for change review and automated deployment.

NEW QUESTION 31

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