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UP Police Constable
Practice Set – 24
By Sandeep Rana

हर्षवर्धन के समय में कौन सा चीनी त्रियोगी भारत आया था ?
Which Chinese pilgrim came to India during the time of Harshavardhana ?

A. फाहान / Fahyan
B. इत्सिंग / Itsing
C. मेगास्थेनेस / Megasthenes
D. खुनसांग / Xuanzang

D

हर्षवर्धन के समय में कौन सा चीनी त्रियोगी भारत आया था ?
Where is the information about the conflict between Harsha and Pulakeshin II found?

A. ऐहोल अभिलेख / Ahola Records
B. बंसखेड़ा लेख / Banskheda Article
C. हाथिगुम्फा अभिलेख / Hathigumpha Records
D. फूनसांग के वर्णन से/ From Xuanzang's description

A

कालुक्य राजा पुलकेशिन II को किसने पराजित किया था ?
Who defeated Chalukya king Pulakeshin II?

A. महेन्द्रवर्मन 1 / Mahendravarman 1
B. नरसिंहवर्मन 1 / Narasimhavarman 1
C. परमेश्वरवर्मन 1 / Parmeshwarana 1
D. परांतक / Parantak

B

किस व्यक्ति को 'द्वितीय अशोक' कहा जाता है ?
Who is known as 'Second Ashoka'?

A. समुद्रगुप्त / Samudragupta
B. चन्द्रगुप्त मौर्य / Chandragupta Maurya
C. स्कंदगुप्त / Skandagupta
D. हर्षवर्धन / Harsh Vardhan

D

बाणभट्ट किस सम्राट के राजदरबारी कवि थे ?
Banabhatta was the royal court poet of which emperor ?

A. विक्रमादित्य / Vikramaditya
B. कुमारगुप्त / Kumaragupta
C. हर्षवर्धन / Harsh Vardhan
D. कनिष्ठा / Kanishka

C

सकलतानतरापत्रनाथ किसे कहा गया है ?
Who is known as 'Sakalatarapathnath'?

A. कनिष्ठा / Kanishka
B. हर्षवर्धन 1 / Harshvardhan

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CompTIA CAS-005 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"> • Governance, Risk, and Compliance: This section of the exam measures the skills of CompTIA security architects that cover the implementation of governance components based on organizational security requirements, including developing policies, procedures, and standards. Candidates will learn about managing security programs, including awareness training on phishing and social engineering.
Topic 2	<ul style="list-style-type: none"> • Security Architecture: This domain focuses on analyzing requirements to design resilient systems, including the configuration of firewalls and intrusion detection systems.
Topic 3	<ul style="list-style-type: none"> • Security Engineering: This section measures the skills of CompTIA security architects that involve troubleshooting common issues related to identity and access management (IAM) components within an enterprise environment. Candidates will analyze requirements to enhance endpoint and server security while implementing hardware security technologies. This domain also emphasizes the importance of advanced cryptographic concepts in securing systems.
Topic 4	<ul style="list-style-type: none"> • Security Operations: This domain is designed for CompTIA security architects and covers analyzing data to support monitoring and response activities, as well as assessing vulnerabilities and recommending solutions to reduce attack surfaces. Candidates will apply threat-hunting techniques and utilize threat intelligence concepts to enhance operational security.

CompTIA SecurityX Certification Exam Sample Questions (Q269-Q274):

NEW QUESTION # 269

SIMULATION

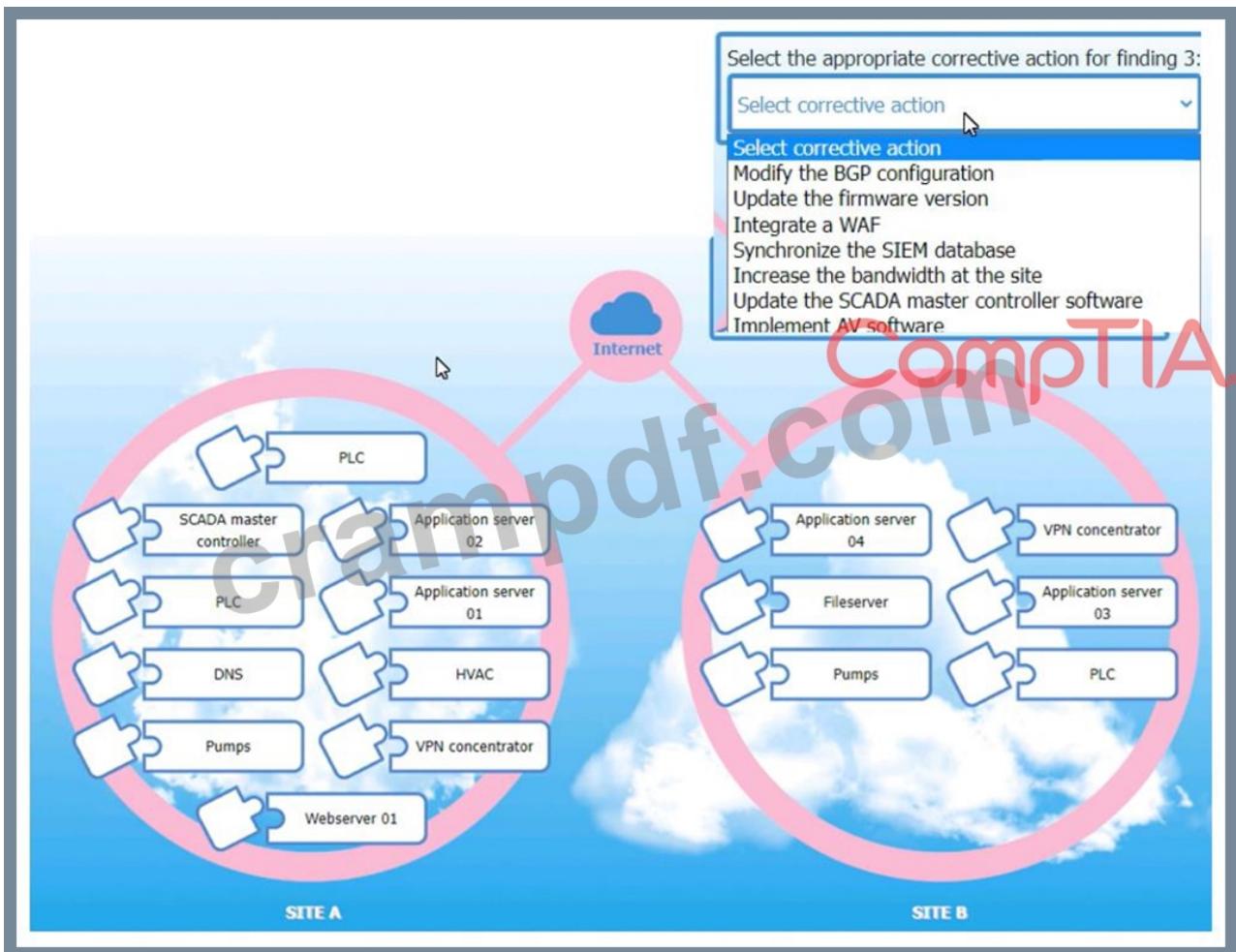
An organization is planning for disaster recovery and continuity of operations, and has noted the following relevant findings:

1. A natural disaster may disrupt operations at Site A, which would then cause an evacuation. Users are unable to log into the domain from their workstations after relocating to Site B.
2. A natural disaster may disrupt operations at Site A, which would then cause the pump room at Site B to become inoperable.
3. A natural disaster may disrupt operations at Site A, which would then cause unreliable internet connectivity at Site B due to route flapping.

INSTRUCTIONS

Match each relevant finding to the affected host by clicking on the host name and selecting the appropriate number.

For findings 1 and 2, select the items that should be replicated to Site B. For finding 3, select the item requiring configuration changes, then select the appropriate corrective action from the drop-down menu.



Relevant findings



A natural disaster may disrupt operations at Site A, which would then cause an evacuation. Users are unable to log into the domain from their workstations after relocating to Site B.

Select this for the item that should be replicated to Site B.



A natural disaster may disrupt operations at Site A, which would then cause the pump room at Site B to become inoperable.

Select this for the item that should be replicated to Site B.



A natural disaster may disrupt operations at Site A, which would then cause unreliable Internet connectivity at Site B due to route flapping.

Select this for the item requiring configuration changes.

Answer:

Explanation:

See the complete solution below in Explanation

Explanation:

Matching Relevant Findings to the Affected Hosts:

Finding 1:

Affected Host: DNS

Reason: Users are unable to log into the domain from their workstations after relocating to Site B, which implies a failure in domain

name services that are critical for user authentication and domain login.

Finding 2:

Affected Host: Pumps

Reason: The pump room at Site B becoming inoperable directly points to the critical infrastructure components associated with pumping operations.

Finding 3:

Affected Host: VPN Concentrator

Reason: Unreliable internet connectivity at Site B due to route flapping indicates issues with network routing, which is often managed by VPN concentrators that handle site-to-site connectivity.

Corrective Actions for Finding 3:

Finding 3 Corrective Action:

Action: Modify the BGP configuration

Reason: Route flapping is often related to issues with Border Gateway Protocol (BGP) configurations. Adjusting BGP settings can stabilize routes and improve internet connectivity reliability.

Replication to Site B for Finding 1:

Affected Host: DNS

Domain Name System (DNS) services are essential for translating domain names into IP addresses, allowing users to log into the network. Replicating DNS services ensures that even if Site A is disrupted, users at Site B can still authenticate and access necessary resources.

Replication to Site B for Finding 2:

Affected Host: Pumps

The operation of the pump room is crucial for maintaining various functions within the infrastructure. Replicating the control systems and configurations for the pumps at Site B ensures that operations can continue smoothly even if Site A is affected.

Configuration Changes for Finding 3:

Affected Host: VPN Concentrator

Route flapping is a situation where routes become unstable, causing frequent changes in the best path for data to travel. This instability can be mitigated by modifying BGP configurations to ensure more stable routing. VPN concentrators, which manage connections between sites, are typically configured with BGP for optimal routing.

Reference:

CompTIA Security+ Study Guide: This guide provides detailed information on disaster recovery and continuity of operations, emphasizing the importance of replicating critical services and making necessary configuration changes to ensure seamless operation during disruptions.

CompTIA Security+ Exam Objectives: These objectives highlight key areas in disaster recovery planning, including the replication of critical services and network configuration adjustments.

Disaster Recovery and Business Continuity Planning (DRBCP): This resource outlines best practices for ensuring that operations can continue at an alternate site during a disaster, including the replication of essential services and network stability measures.

By ensuring that critical services like DNS and control systems for pumps are replicated at the alternate site, and by addressing network routing issues through proper BGP configuration, the organization can maintain operational continuity and minimize the impact of natural disasters on their operations.

NEW QUESTION # 270

A senior security engineer flags the following log file snippet as having likely facilitated an attacker's lateral movement in a recent breach:

```
[log.txt]
...
qry_source: 19.27.214.22 TCP/53
qry_dest: 199.103.22.13 TCP/53
qry_type: AXFR
| in comptia.org
-----| directoryserver1 A 10.80.8.10
-----| directoryserver2 A 10.80.8.11
-----| directoryserver3 A 10.80.8.12
-----| internal-dns A 10.80.9.1
-----| www-int A 10.80.9.3
-----| fshare A 10.80.9.4
-----| sip A 10.80.9.5
-----| man-crit-apps A 10.81.22.33
...
ComptIA
```

Which of the following solutions, if implemented, would mitigate the risk of this issue reoccurring?

- A. Permitting only clients from internal networks to query DNS
- B. Implementing DNS masking on internal servers
- C. **Disabling DNS zone transfers**
- D. Restricting DNS traffic to UDP

Answer: C

Explanation:

The log snippet indicates a DNS AXFR (zone transfer) request, which can be exploited by attackers to gather detailed information about an internal network's infrastructure. Disabling DNS zone transfers is the best solution to mitigate this risk. Zone transfers should generally be restricted to authorized secondary DNS servers and not be publicly accessible, as they can reveal sensitive network information that facilitates lateral movement during an attack.

NEW QUESTION # 271

A security analyst received a report that an internal web page is down after a company-wide update to the web browser. Given the following error message:



Your connection is not private.
Attackers might be trying to steal your information for www.internalwebsite.company.com.
NET::ERR_CERT_WEAK_SIGNATURE_ALGORITHM

Which of the following is the best way to fix this issue?

- A. Blocking all non-essential ports
- B. Rewriting any legacy web functions
- C. Disabling all deprecated ciphers
- D. **Discontinuing the use of self-signed certificates**

Answer: D

Explanation:

The error message "NET::ERR_CERT_WEAK_SIGNATURE_ALGORITHM" indicates that the web browser is rejecting the certificate because it uses a weak signature algorithm. This commonly happens with self-signed certificates, which often use outdated or insecure algorithms.

Why Discontinue Self-Signed Certificates?

- * Security Compliance: Modern browsers enforce strict security standards and may reject certificates that do not comply with these standards.
- * Trusted Certificates: Using certificates from a trusted Certificate Authority (CA) ensures compliance with security standards and is less likely to be flagged as insecure.
- * Weak Signature Algorithm: Self-signed certificates might use weak algorithms like MD5 or SHA-1, which are considered insecure.

Other options do not address the specific cause of the certificate error:

- * A. Rewriting legacy web functions: Does not address the certificate issue.
- * B. Disabling deprecated ciphers: Useful for improving security but not related to the certificate error.
- * C. Blocking non-essential ports: This is unrelated to the issue of certificate validation.

References:

- * CompTIA SecurityX Study Guide
- * "Managing SSL/TLS Certificates," OWASP
- * "Best Practices for Certificate Management," NIST Special Publication 800-57

NEW QUESTION # 272

After several companies in the financial industry were affected by a similar incident, they shared information about threat intelligence and the malware used for exploitation. Which of the following should the companies do to best indicate whether the attacks are being conducted by the same actor?

- A. **Apply code stylometry.**
- B. Leverage malware detonation.
- C. Look for common IOCs.
- D. Use IOC extractions.

Answer: A

Explanation:

Comprehensive and Detailed Explanation:

Determining if attacks are from the same actor requires unique attribution. Let's analyze:

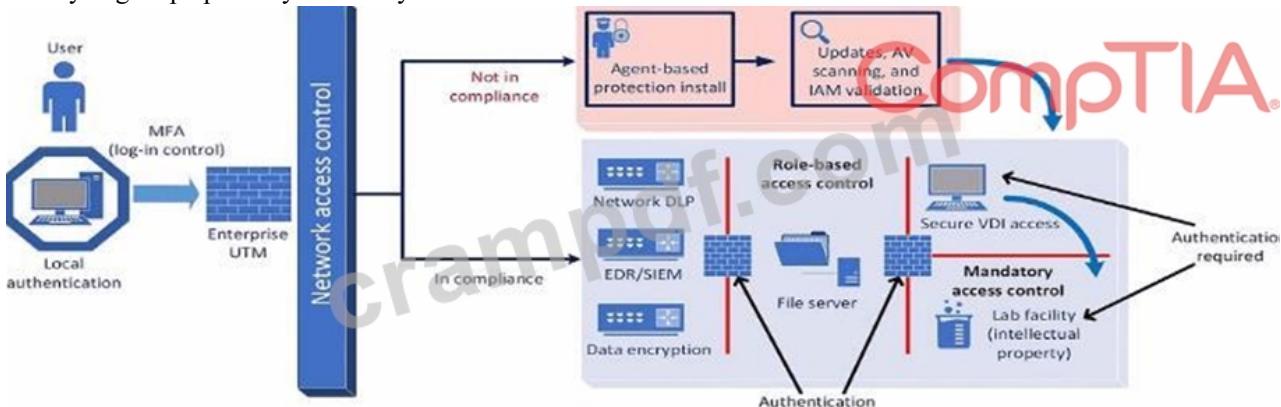
- * A. Code stylometry: Analyzes coding style to identify authorship, the best method for linking malware to a specific actor per CAS-005's threat intelligence focus.

* B. Common IOCs: Indicates similar attacks but not necessarily the same actor.

* C. IOC extractions: Similar to B, lacks specificity for attribution.

NEW QUESTION # 273

A company plans to implement a research facility with Intellectual property data that should be protected. The following is the security diagram proposed by the security architect



Which of the following security architect models is illustrated by the diagram?

- A. Perimeter protection security model
- B. Agent based security model
- C. Identity and access management model
- D. Zero Trust security model

Answer: D

Explanation:

The security diagram proposed by the security architect depicts a Zero Trust security model. Zero Trust is a security framework that assumes all entities, both inside and outside the network, cannot be trusted and must be verified before gaining access to resources.

Key Characteristics of Zero Trust in the Diagram:

Role-based Access Control: Ensures that users have access only to the resources necessary for their role.

Mandatory Access Control: Additional layer of security requiring authentication for access to sensitive areas.

Network Access Control: Ensures that devices meet security standards before accessing the network.

Multi-factor Authentication (MFA): Enhances security by requiring multiple forms of verification.

This model aligns with the Zero Trust principles of never trusting and always verifying access requests, regardless of their origin.

NEW QUESTION # 274

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