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## CompTIA CAS-005 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"> <li>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.</li> </ul>
Topic 2	<ul style="list-style-type: none"> <li>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.</li> </ul>

Topic 3	<ul style="list-style-type: none"> <li>• 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.</li> </ul>
Topic 4	<ul style="list-style-type: none"> <li>• Security Architecture: This domain focuses on analyzing requirements to design resilient systems, including the configuration of firewalls and intrusion detection systems.</li> </ul>

## CompTIA SecurityX Certification Exam Sample Questions (Q51-Q56):

### NEW QUESTION # 51

A security analyst discovered requests associated with IP addresses known for both legitimate and bot-related traffic. Which of the following should the analyst use to determine whether the requests are malicious?

- A. Web application headers
- B. Byte length of the request
- C. HTML encoding field
- D. User-agent string

**Answer: D**

Explanation:

The user-agent string can provide valuable information to distinguish between legitimate and bot-related traffic. It contains details about the browser, device, and sometimes the operating system of the client making the request.

Why Use User-Agent String?

Identify Patterns: User-agent strings can help identify patterns that are typical of bots or legitimate users.

Block Malicious Bots: Many bots use known user-agent strings, and identifying these can help block malicious requests.

Anomalies Detection: Anomalous user-agent strings can indicate spoofing attempts or malicious activity.

Other options provide useful information but may not be as effective for initial determination of the nature of the request:

B . Byte length of the request: This can indicate anomalies but does not provide detailed information about the client.

C . Web application headers: While useful, they may not provide enough distinction between legitimate and bot traffic.

D . HTML encoding field: This is not typically used for identifying the nature of the request.

Reference:

CompTIA SecurityX Study Guide

"User-Agent Analysis for Security," OWASP

NIST Special Publication 800-94, "Guide to Intrusion Detection and Prevention Systems (IDPS)"

### NEW QUESTION # 52

A security administrator needs to automate alerting. The server generates structured log files that need to be parsed to determine whether an alarm has been triggered. Given the following code function:

```
def parse_logs(logfile):
    with open(logfile) as log_file:
        parsed_log = json.load(log_file)
        if "error_log" in parsed_log["system_1"]["InAlarmState"]:
```

Which of the following is most likely the log input that the code will parse?

- A. 

```
["error_log"]
  ["system_1"]
  ["InAlarmState": True]
```
- B. 

```
error_log:
- system_1
  InAlarmState: True
```
- C. 

```
["error_log": {"system_1": {"InAlarmState": True}}
```
- D. 

```
<"error_log"><"system_1"></"InAlarmState"="True"></"system_1"></"error_log">
```

**Answer: A**

Explanation:

The code function provided in the question seems to be designed to parse JSON formatted logs to check for an alarm state. Option A is a JSON format that matches the structure likely expected by the code. The presence of the "error\_log" and "InAlarmState" keys suggests that this is the correct input format.

### NEW QUESTION # 53

An enterprise is deploying APIs that utilize a private key and a public key to ensure the connection string is protected. To connect to the API, customers must use the private key. Which of the following would best secure the REST API connection to the database while preventing the use of a hard-coded string in the request string?

- A. Utilize HMAC for the keys
- B. Implement a VPN for all APIs
- C. Deploy MFA for the service accounts
- D. Sign the key with DSA

**Answer: A**

### NEW QUESTION # 54

A company wants to improve and automate the compliance of its cloud environments to meet industry standards. Which of the following resources should the company use to best achieve this goal?

- A. PowerShell
- B. Ansible
- C. Jenkins
- D. Python

**Answer: B**

Explanation:

Comprehensive and Detailed Explanation:

Automating compliance in cloud environments requires a tool that can enforce configurations, manage infrastructure as code, and align with industry standards (e.g., NIST, ISO). Let's evaluate:

- \* A. Jenkins: A CI/CD tool for automating software builds and deployments. It's not designed for compliance enforcement or infrastructure management.
- \* B. Python: A programming language that can be scripted for automation but lacks built-in compliance- focused features without significant custom development.
- \* C. Ansible: An automation tool for configuration management, application deployment, and compliance enforcement. It uses playbooks to define desired states, making it ideal for automating compliance checks and remediation in cloud environments (e.g., AWS, Azure). CAS-005 emphasizes automation tools for security and compliance, and Ansible fits perfectly.

### NEW QUESTION # 55

#### 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.

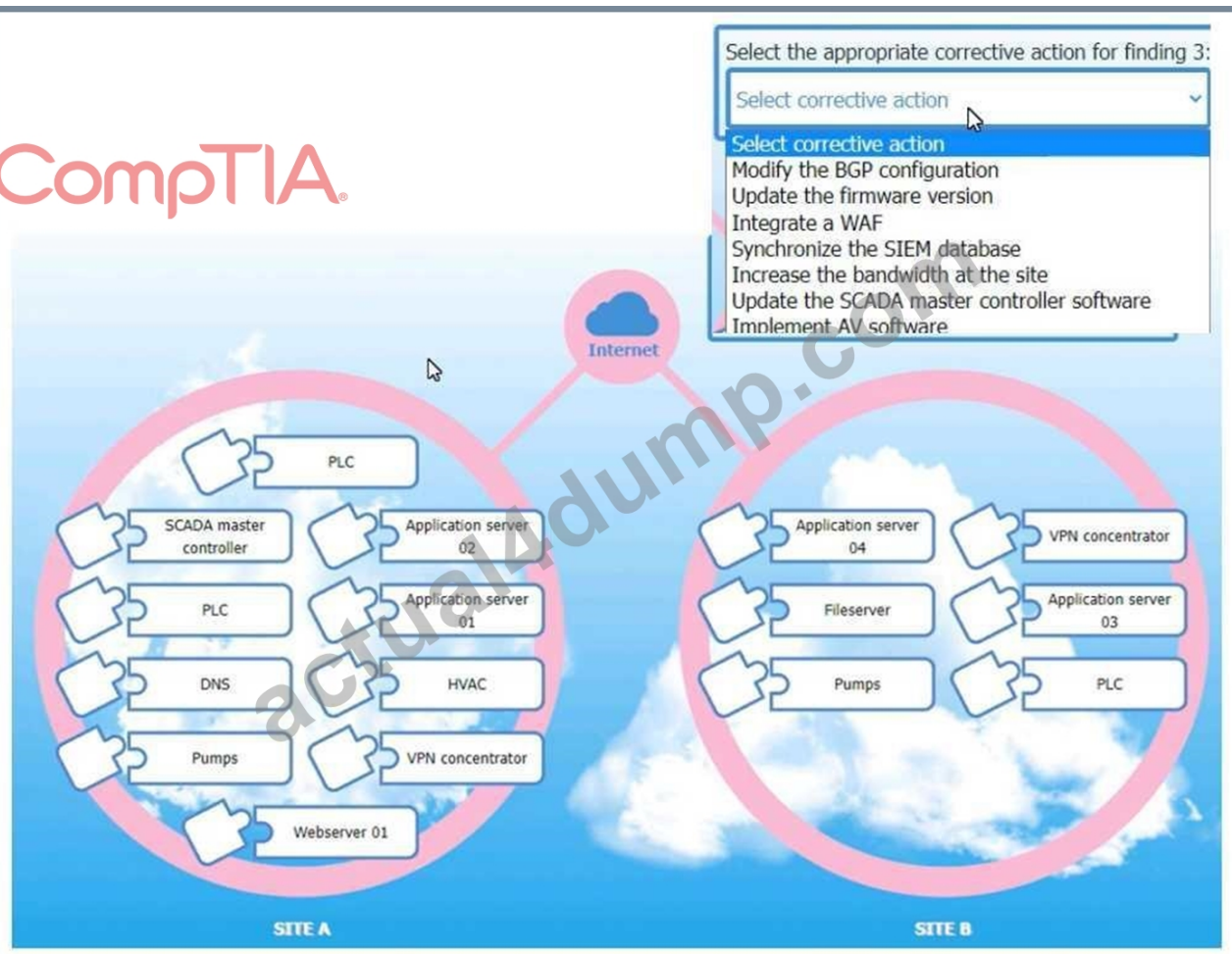
2. A natural disaster may disrupt operations at Site A, which would then cause the pump room at Site B to become inoperable.

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:

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.

## NEW QUESTION # 56

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