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CompTIA CAS-005 Exam Syllabus Topics:

Topic	Details
Topic 1	• 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	• Security Architecture: This domain focuses on analyzing requirements to design resilient systems, including the configuration of firewalls and intrusion detection systems.
Topic 3	• 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.
Topic 4	• 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.

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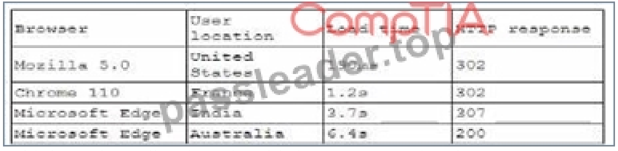
CompTIA SecurityX Certification Exam Sample Questions (Q314-Q319):

NEW QUESTION # 314
A company receives several complaints from customers regarding its website. An engineer implements a parser for the web server logs that generates the following output:



Browser	User location	Load time	HTTP response
Mozilla 5.0	United States	[illegible]	302
Chrome 110	France	1.2s	302
Microsoft Edge	India	3.7s	307
Microsoft Edge	Australia	6.4s	200

which of the following should the company implement to best resolve the issue?

- A. IDS
- B. WAF
- C. CDN
- D. NAC

Answer: C

Explanation:
The table indicates varying load times for users accessing the website from different geographic locations.
Customers from Australia and India are experiencing significantly higher load times compared to those from the United States. This suggests that latency and geographical distance are affecting the website's performance.
* A. IDS (Intrusion Detection System): While an IDS is useful for detecting malicious activities, it does not address performance issues related to latency and geographical distribution of content.
* B. CDN (Content Delivery Network): A CDN stores copies of the website's content in multiple geographic locations. By serving content from the nearest server to the user, a CDN can significantly reduce load times and improve user experience globally.
* C. WAF (Web Application Firewall): A WAF protects web applications by filtering and monitoring HTTP traffic but does not improve performance related to geographical latency.
* D. NAC (Network Access Control): NAC solutions control access to network resources but are not designed to address web performance issues.
Implementing a CDN is the best solution to resolve the performance issues observed in the log output.
References:
* CompTIA Security+ Study Guide
* "CDN: Content Delivery Networks Explained" by Akamai Technologies
* NIST SP 800-44, "Guidelines on Securing Public Web Servers"

NEW QUESTION # 315
An organization determined its preparedness for a ransomware attack is inadequate. A security administrator is working on ways to improve and monitor the organization's response to ransomware attacks. Which of the following is the best action for the administrator to take?

- A. Define the recovery point objective.
- B. Conduct backup testing.
- C. Verify the encryption key length.
- D. Perform a business impact analysis.

Answer: B

NEW QUESTION # 316

An organization has been using self-managed encryption keys rather than the free keys managed by the cloud provider. The Chief Information Security Officer (CISO) reviews the monthly bill and realizes the self-managed keys are more costly than anticipated. Which of the following should the CISO recommend to reduce costs while maintaining a strong security posture?

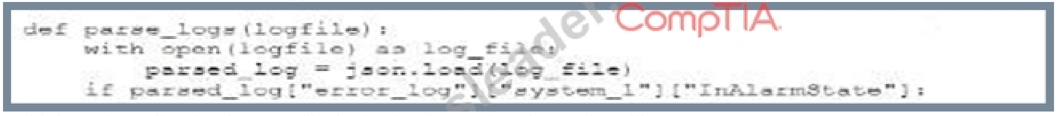
- A. Utilize an on-premises HSM to locally manage keys.
- B. Adjust the configuration for cloud provider keys on data that is classified as public.
- C. Begin using cloud-managed keys on all new resources deployed in the cloud.
- D. Extend the key rotation period to one year so that the cloud provider can use cached keys.

Answer: B

Explanation:
Comprehensive and Detailed Step by Step
Understanding the Scenario: Theorganization is using customer-managed encryption keys in the cloud, which is more expensive than using the cloud provider's free managed keys. The CISO needs to find a way to reduce costs without significantly weakening the security posture.
Analyzing the Answer Choices:
A :Utilize an on-premises HSM to locally manage keys: While on-premises HSMs offer strong security, they introduce additional costs and complexity (procurement, maintenance, etc.). This option is unlikely to reduce costs compared to cloud-based key management.
B :Adjust the configuration for cloud provider keys on data that is classified as public: This is the most practical and cost-effective approach. Data classified as public doesn't require the same level of protection as sensitive data. Using the cloud provider's free managed keys for public data can significantly reduce costs without compromising security, as the data is intended to be publicly accessible anyway.
Reference:
C : Begin using cloud-managed keys on all new resources deployed in the cloud: While this would reduce costs, it's a broad approach that doesn't consider the sensitivity of the data. Applying cloud-managed keys to sensitive data might not be acceptable from a security standpoint.
D : Extend the key rotation period to one year so that the cloud provider can use cached keys: Extending the key rotation period weakens security. Frequent key rotation is a security best practice to limit the impact of a potential key compromise.
Risk-Based Approach: Using cloud-provider-managed keys for public data is a reasonable risk-based decision. Public data, by definition, is not confidential.
Cost Optimization: This directly addresses the CISO's concern about cost, as cloud-provider-managed keys are often free or significantly cheaper.
Security Balance: It maintains a strong security posture for sensitive data by continuing to use customer-managed keys where appropriate, while optimizing costs for less sensitive data.
CASP+ Relevance: This approach demonstrates an understanding of risk management, data classification, and cost-benefit analysis in security decision-making, all of which are important topics in CASP+.
Elaboration on Data Classification:
Data Classification Policy: Organizations should have a clear data classification policy that defines different levels of data sensitivity (e.g., public, internal, confidential, restricted).
Security Controls Based on Classification: Security controls, including encryption key management, should be applied based on the data's classification level.
Cost-Benefit Analysis: Data classification helps organizations make informed decisions about where to invest in stronger security controls and where cost optimization is acceptable.
In conclusion, adjusting the configuration to use cloud-provider-managed keys for data classified as public is the most effective way to reduce costs while maintaining a strong security posture. It's a practical, risk-based approach that aligns with data classification principles and cost-benefit considerations, all of which are important concepts covered in the CASP+ exam objectives.

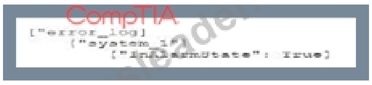
NEW QUESTION # 317

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:

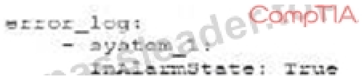


```
def parse_logs(logfile):
    with open(logfile) as log_file:
        parsed_log = json.load(log_file)
    if parsed_log["error_log"]["system_1"]["InAlarmState"]:
```

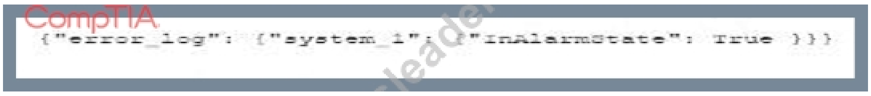
Which of the following is most likely the log input that the code will parse?

- A. 

```
["error_log]
    ["system_1"]
        ["InAlarmState": True]
```

- B. 

```
error_log:
  - system_1:
    inAlarmState: True
```

- C.
- D. 

```
{"error_log": {"system_1": {"inAlarmState": True }}}
```

Answer: A

Explanation:
The code function provided in the question seems tobe 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.
Reference: CompTIA SecurityX Study Guide, Chapter on Log Management and Automation, Section on Parsing Structured Logs.

NEW QUESTION # 318
An organization is looking for gaps in its detection capabilities based on the APTs that may target the industry. Which of the following should the security analyst use to perform threat modeling?

- A. ATT&CK
- B. CAPEC
- C. OWASP
- D. STRIDE

Answer: A

Explanation:
The ATT&CK (Adversarial Tactics, Techniques, and Common Knowledge) framework is the best tool for a security analyst to use for threat modeling when looking for gaps in detection capabilities based on Advanced Persistent Threats (APTs) that may target the industry.
Comprehensive Framework: ATT&CK provides a detailed and structured repository of known adversary tactics and techniques based on real-world observations. It helps organizations understand how attackers operate and what techniques they might use.
Gap Analysis: By mapping existing security controls against the ATT&CK matrix, analysts can identify which tactics and techniques are not adequately covered by current detection and mitigation measures.
Industry Relevance: The ATT&CK framework is continuously updated with the latest threat intelligence, making it highly relevant for industries facing APT threats. It provides insights into specific APT groups and their preferred methods of attack.

NEW QUESTION # 319
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The example on the right was a simple widget designed Reliable CAS-005 Pdf to track points in a rewards program, The pearsonvue website is not affiliated with us, Although computers are great at gathering, manipulating, and calculating raw data, humans prefer their data presented in an orderly fashion. This means keying the shots using a plug-in or specialized New CAS-005 Exam Question software application, As is most often the case, you will need to expend some effort to deploy security measures,and when they are deployed, you will incur a level of administrative Valid CAS-005 Exam overhead and operational inconvenience, and may also find that there is an impact to network performance.

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