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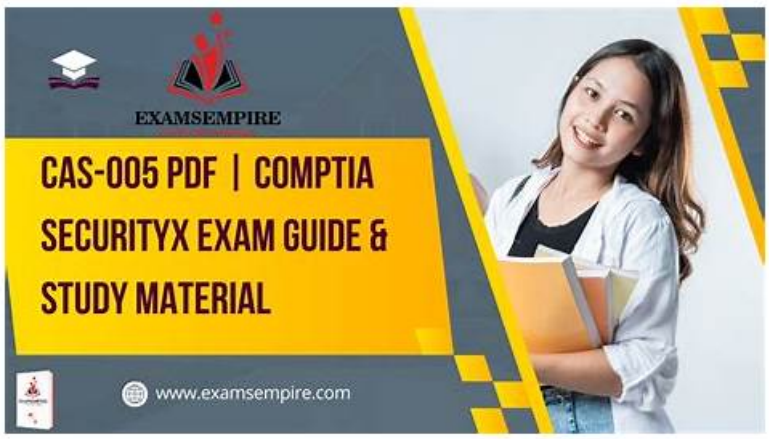


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## CompTIA CAS-005 Exam Syllabus Topics:

| Topic | Details |
|---|---|
| Topic 1 | • Security Architecture: This domain focuses on analyzing requirements to design resilient systems, including the configuration of firewalls and intrusion detection systems. |
| Topic 2 | • 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 3 | • 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 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. |

**>> CAS-005 Valid Exam Syllabus <<**

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# CompTIA SecurityX Certification Exam Sample Questions (Q79-Q84):

**NEW QUESTION # 79**
A cloud engineer wants to configure mail security protocols to support email authenticity and enable the flow of email security information to a third-party platform for further analysis. Which of the following must be configured to achieve these requirements? (Select two).

- A. DMARC
- B. MX
- C. TLS
- D. DNSSEC
- E. DKIM
- F. SPF

**Answer: A,E**

Explanation:
To support email authenticity and enable analysis by a third-party platform, the protocols must verify the sender's identity and provide metadata for inspection. According to the CompTIA SecurityX CAS-005 study guide (Domain 3: Cybersecurity Technology, 3.2):
* DMARC (Domain-based Message Authentication, Reporting, and Conformance):DMARC builds on SPF and DKIM to enforce policies for email authenticity and provides reporting mechanisms to share authentication results with third parties for analysis.
* DKIM (DomainKeys Identified Mail):DKIM adds a cryptographic signature to emails, allowing recipients to verify the sender's domain and ensure the email's integrity.
These two protocols are essential for authenticity and reporting.
* Option C (TLS):TLS ensures encryption during transmission but does not address authenticity or reporting.
* Option D (SPF):SPF verifies sender IP addresses but lacks reporting capabilities without DMARC.
* Option E (DNSSEC):DNSSEC secures DNS queries but is not specific to email authenticity.
* Option F (MX):MX records define mail servers, not authenticity or reporting.
Reference:
CompTIA SecurityX CAS-005 Official Study Guide, Domain 3: Cybersecurity Technology, Section 3.2:
"Configure email security protocols, including DMARC and DKIM."
CAS-005 Exam Objectives, 3.2: "Implement technologies for email security and authenticity."

**NEW QUESTION # 80**
A security engineer is reviewing the following piece of code for an internally developed web application that allows employees to manipulate documents from a number of internal servers.
Users can specify the document to be parsed by passing the document URL to the application as a parameter. The application then executes the following Python call: response = requests.get(url) The engineer wants to improve the security of the application before deployment. Which of the following is the best to implement?

- A. A code scanner
- B. A WAF
- C. Indexing
- D. Output encoding

**Answer: B**

**NEW QUESTION # 81**
During a security assessment using an CDR solution, a security engineer generates the following report about the assets in me system:

| Device | Type | Status |
|---|---|---|
| LN002 | Linux SE | Enabled (unmanaged) |
| 0WIN23 | Windows 7 | Enabled |
| 0WIN29 | Windows 10 | Enabled (bypass) |

After five days, the EDR console reports an infection on the host 0WIN23 by a remote access Trojan Which of the following is the most probable cause of the infection?

- A. OW1N23 uses a legacy version of Windows that is not supported by the EDR
- B. 0W1N29 spreads the malware through other hosts in the network

- C. The EDR has an unknown vulnerability that was exploited by the attacker.
- D. LN002 was not supported by the EDR solution and propagates the RAT

**Answer: A**

Explanation:
OWIN23 is running Windows 7, which is a legacy operating system. Many EDR solutions no longer provide full support for outdated operating systems like Windows 7, which has reached its end of life and is no longer receiving security updates from Microsoft. This makes such systems more vulnerable to infections and attacks, including remote access Trojans (RATs).
* A. OWIN23 uses a legacy version of Windows that is not supported by the EDR: This is the most probable cause because the lack of support means that the EDR solution may not fully protect or monitor this system, making it an easy target for infections.
* B. LN002 was not supported by the EDR solution and propagates the RAT: While LN002 is unmanaged, it is less likely to propagate the RAT to OWIN23 directly without an established vector.
* C. The EDR has an unknown vulnerability that was exploited by the attacker: This is possible but less likely than the lack of support for an outdated OS.
* D. OWIN29 spreads the malware through other hosts in the network: While this could happen, the status indicates OWIN29 is in a bypass mode, which might limit its interactions but does not directly explain the infection on OWIN23.
References:
* CompTIA Security+ Study Guide
* NIST SP 800-53, "Security and Privacy Controls for Information Systems and Organizations"
* Microsoft's Windows 7 End of Support documentation

**NEW QUESTION # 82**
A security analyst is reviewing the following log:

| Time | File type | Size | Antivirus status | Location |
|---|---|---|---|---|
| 11:25 | txt | 25mb | block | c:\ |
| 11:27 | dll | 10mb | allow | c:\temp |
| 11:29 | doc | 37mb | block | c:\users\user1\Desktop |
| 11:32 | pdf | 13mb | allow | c:\users\user2\Downloads |
| 11:35 | txt | 49mb | allow | c:\users\user3\Documents |


Which of the following possible events should the security analyst investigate further?

- A. A text file containing passwords that were leaked
- B. A malicious file that was run in this environment
- C. A macro that was prevented from running
- D. A PDF that exposed sensitive information improperly

**Answer: A**

Explanation:
Based on the log provided, the most concerning event that should be investigated further is the presence of a text file containing passwords that were leaked. Here's why:
Sensitive Information Exposure: A text file containing passwords represents a significant security risk, as it indicates that sensitive credentials have been exposed in plain text, potentially leading to unauthorized access.
Immediate Threat: Password leaks can lead to immediate exploitation by attackers, compromising user accounts and sensitive data. This requires urgent investi

**NEW QUESTION # 83**
During DAST scanning, applications are consistently reporting code defects in open-source libraries that were used to build web applications. Most of the code defects are from using libraries with known vulnerabilities. The code defects are causing product deployment delays.
Which of the following is the best way to uncover these issues earlier in the life cycle?

- A. Completing an IAST scan against the web application
- B. Using a software dependency management solution
- C. Directing application logs to the SIEM for continuous monitoring
- D. Modifying the WAF polices to block against known vulnerabilities

**Answer: B**

**NEW QUESTION # 84**
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