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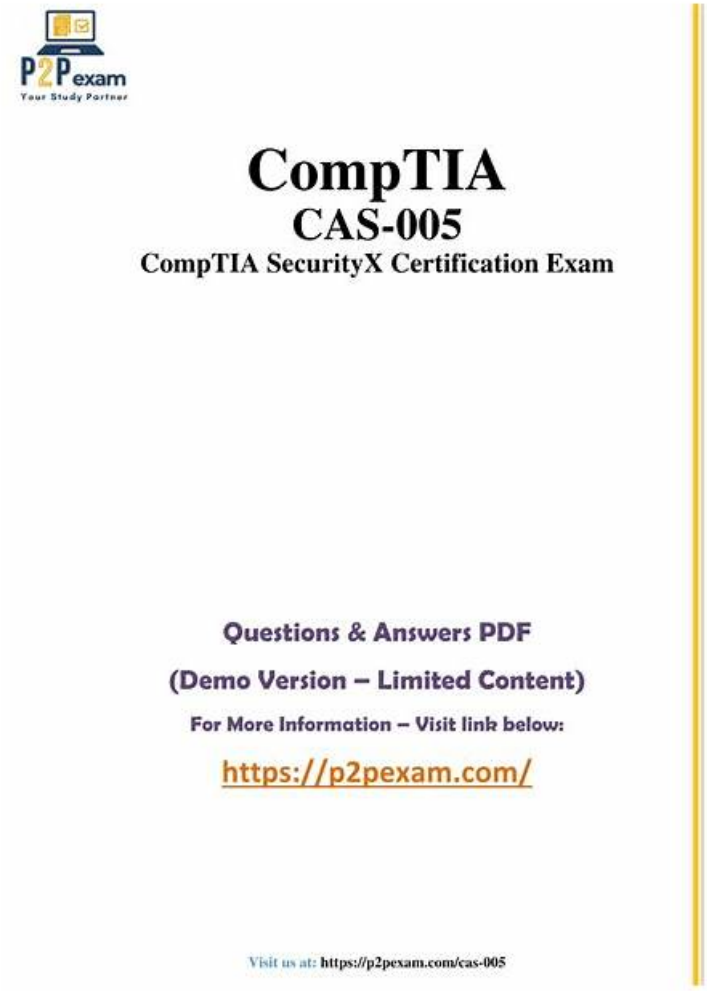

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candidate needs to be updated and reliable CompTIA SecurityX Certification Exam (CAS-005) prep material. There is a ton of CAS-005 prep material available on the internet.

CompTIA CAS-005 Exam Syllabus Topics:

Topic	Details
Topic 1	• 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 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 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	• 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.

CompTIA SecurityX Certification Exam Sample Questions (Q341-Q346):

NEW QUESTION # 341
A security engineer wants to reduce the attack surface of a public-facing containerized application Which of the following will best reduce the application's privilege escalation attack surface?

- A. Designing a muiticontainer solution, with one set of containers that runs the mam application, and another set oi containers that perform automatic remediation by replacing compromised containers or disabling compromised accounts
- B. Implementing the following commands in the Dockerfile:
  RUN echo user:x:1000:1000iuser:/home/user:/dew/null > /ete/passwd
- C. Installing an EDR on the container's host with reporting configured to log to a centralized SIFM and Implementing the following alerting rules TF PBOCESS_USEB=rooC ALERT_TYPE=critical
- D. Running the container in an isolated network and placing a load balancer in a public-facing network. Adding the following ACL to the load balancer:PZRKZI HTTES from 0-0.0.0.0/0 pert 443

Answer: B

Explanation:
Implementing the given commands in the Dockerfile ensures that the container runs with non-root user privileges. Running applications as a non-root user reduces the risk of privilege escalation attacks because even if an attacker compromises the application, they would have limited privileges and would not be able to perform actions that require root access.
A . Implementing the following commands in the Dockerfile: This directly addresses the privilege escalation attack surface by ensuring the application does not run with elevated privileges.
B . Installing an EDR on the container's host: While useful for detecting threats, this does not reduce the privilege escalation attack surface within the containerized application.
C . Designing a multi-container solution: While beneficial for modularity and remediation, it does not specifically address privilege escalation.
D . Running the container in an isolated network: This improves network security but does not directly reduce the privilege escalation attack surface.
Reference:
CompTIA Security+ Study Guide
Docker documentation on security best practices
NIST SP 800-190, "Application Container Security Guide"

NEW QUESTION # 342
A security analyst is reviewing the following event timeline from an COR solution:
Which of the following most likely has occurred and needs to be fixed?

- A. The Dl P has failed to block malicious exfiltration and data tagging is not being utilized property
- B. A logic law has introduced a TOCTOU vulnerability and must be addressed by the COR vendor
- C. An EDR bypass was utilized by a threat actor and updates must be installed by the administrator.
- D. A potential insider threat is being investigated and will be addressed by the senior management team.

Answer: B

Explanation:
The event timeline indicates a sequence where a file (hr-reporting.docx) was saved, scanned, executed, and eventually found to contain malware. The critical issue here is that the malware scan completed after the file was already executed. This suggests a Time-Of-Check to Time-Of-Use (TOCTOU) vulnerability, where the state of the file changed between the time it was checked and the time it was used.
References:
* CompTIA SecurityX Study Guide: Discusses TOCTOU vulnerabilities as a timing attack where the state of a resource changes after it has been validated.
* NIST Special Publication 800-53, "Security and Privacy Controls for Federal Information Systems and Organizations": Recommends addressing TOCTOU vulnerabilities to ensure the integrity of security operations.
* "The Art of Software Security Assessment" by Mark Dowd, John McDonald, and Justin Schuh: Covers logic flaws and timing vulnerabilities, including TOCTOU issues.

NEW QUESTION # 343
To prevent data breaches, security leaders at a company decide to expand user education to:
* Create a healthy security culture.
* Comply with regulatory requirements.
* Improve incident reporting.
Which of the following would best meet their objective?

- A. Deploying fake ransomware
- B. Performing a DoS attack
- C. Scheduling regular penetration tests
- D. Simulating a phishing campaign

Answer: D

Explanation:
Phishing simulations are a proven method for reinforcing security awareness, meeting compliance training requirements, and improving user incident reporting. In CAS-005, social engineering testing is a recommended component of organizational security culture programs.
* DoS attacks (A) and penetration tests (B) assess technical security, not user awareness.
* Fake ransomware (D) can cause unnecessary alarm and operational disruption.

NEW QUESTION # 344
A security engineer is given the following requirements:
* An endpoint must only execute Internally signed applications
* Administrator accounts cannot install unauthorized software.
* Attempts to run unauthorized software must be logged
Which of the following best meets these requirements?

- A. Deploying an EDR solution to monitor and respond to software installation attempts
- B. Configuring application control with blocked hashes and enterprise-trusted root certificates
- C. Implementing a CSPM platform to monitor updates being pushed to applications
- D. Maintaining appropriate account access through directory management and controls

Answer: B

Explanation:
To meet the requirements of only allowing internally signed applications, preventing unauthorized software installations, and logging attempts to run unauthorized software, configuring application control with blocked hashes and enterprise-trusted root certificates is the best solution. This approach ensures that only applications signed by trusted certificates are allowed to execute, while all other attempts are blocked and logged. It effectively prevents unauthorized software installations by restrictingexecution to pre-approved applications.
References:
CompTIA SecurityX Study Guide: Describes application control mechanisms and the use of trusted certificates to enforce security policies.
NIST Special Publication 800-53, " Security and Privacy Controls for Information Systems and Organizations
" : Recommends application whitelisting and execution control for securing endpoints.
" The Application Security Handbook " by Mark Dowd, John McDonald, and Justin Schuh: Covers best practices for implementing application control and managing trusted certificates

NEW QUESTION # 345
During a security review for the CI/CD process, a security engineer discovers the following information in a testing repository from the company:
Which of the following options is the best countermeasure to prevent this issue in the future?

- A. Performing an application penetration test over the testing environment before moving to production
- B. Changing the repository technology to avoid inclusion of confidential information
- C. Using a secrets management platform to share and manage confidential information
- D. Automating the upload process of code to the repository and improving the software development life cycle

Answer: C

Explanation:
Using a secrets management platform ensures sensitive information like database credentials is stored securely and not hardcoded in code repositories, preventing accidental exposure during the CI/CD process.

NEW QUESTION # 346
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