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CompTIA CAS-005 Exam Syllabus Topics:

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

CompTIA SecurityX Certification Exam Sample Questions (Q184-Q189):

NEW QUESTION # 184
A security engineer is implementing a code signing requirement for all code developed by the organization.
Currently, the PKI only generates website certificates. Which of the following steps should the engineer perform first?

- A. Add a new template on the internal CA with the correct attributes.
- B. Generate a wildcard certificate for the internal domain.
- C. Implement a SAN for all internal web applications.
- D. Recalculate a public/private key pair for the root CA.

Answer: A

Explanation:
To enable code signing with an existing PKI, the first step is to configure the Certificate Authority (CA) to issue code signing certificates. Adding a new template with attributes specific to code signing (e.g., key usage for signing) allows the CA to support this requirement without disrupting existing operations.
* Option A:Correct-templates define certificate types; this isthe foundational step.
* Option B:Wildcard certificates are for domains, not code signing.
* Option C:Recalculating root CA keys is unnecessary and risky unless compromised.
* Option D:SAN (Subject Alternative Name) is for multi-domain certificates, irrelevant here.
Reference:CompTIA SecurityX CAS-005 Domain 2: Security Architecture - PKI Implementation.

NEW QUESTION # 185
A security engineer must resolve a vulnerability in a deprecated version of Python for a custom-developed flight simulation application that is monitored and controlled remotely. The source code is proprietary and built with Python functions running on the Ubuntu operating system. Version control is not enabled for the application in development or production. However, the application must remain online in the production environment using built-in features. Which of the following solutions best reduces the attack surface of these issues and meets the outlined requirements?

- A. Use an NFS network share. Update Python with aptitude, and update modules with pip in a test environment. Deploy the solution to production.
- B. Enable branch protection in the GitHub repository. Update Python with aptitude, and update modules with pip in a test environment. Deploy the solution to production.
- C. Configure code-signing within the CI/CD pipeline, update Python with aptitude, and update modules with pip in a test

environment. Deploy the solution to production.

- D. Configure version designation within the Python interpreter. Update Python with aptitude, and update modules with pip in a test environment. Deploy the solution to production.

Answer: C

Explanation:
Code-signing within the CI/CD pipeline ensures that only verified and signed code is deployed, mitigating the risk of supply chain attacks. Updating Python with aptitude and updating modules with pip ensures vulnerabilities are patched. Deploying the solution to production after testing maintains application availability while securing the development lifecycle.
Branch protection (B) applies only to version-controlled environments, which is not the case here.
NFS network share (C) does not address the deprecated Python vulnerability.

NEW QUESTION # 186
Emails that the marketing department is sending to customers are pomp to the customers' spam folders. The security team is investigating the issue and discovers that the certificates used by the email server were reissued, but DNS records had not been updated. Which of the following should the security team update in order to fix this issue? (Select three.)

- A. SASC
- B. SAN
- C. SOA
- D. DKIM
- E. SPF
- F. DMARC
- G. MX
- H. DNSSEC

Answer: D,E,F

Explanation:
To prevent emails from being marked as spam, several DNS records related to email authentication need to be properly configured and updated when there are changes to the email server's certificates:
* A. DMARC (Domain-based Message Authentication, Reporting & Conformance): DMARC records help email servers determine how to handle messages that fail SPF or DKIM checks, improving email deliverability and reducing the likelihood of emails being marked as spam.
* B. SPF (Sender Policy Framework): SPF records specify which mail servers are authorized to send email on behalf of your domain. Updating the SPF record ensures that the new email server is recognized as an authorized sender.
* C. DKIM (DomainKeys Identified Mail): DKIM adds a digital signature to email headers, allowing the receiving server to verify that the email has not been tampered with and is from an authorized sender.
Updating DKIM records ensures that emails are properly signed and authenticated.
* D. DNSSEC (Domain Name System Security Extensions): DNSSEC adds security to DNS by enabling DNS responses to be verified. While important for DNS security, it does not directly address the issue of emails being marked as spam.
* E. SASC: This is not a relevant standard for this scenario.
* F. SAN (Subject Alternative Name): SAN is used in SSL/TLS certificates for securing multiple domain names, not for email delivery issues.
* G. SOA (Start of Authority): SOA records are used for DNS zone administration and do not directly impact email deliverability.
* H. MX (Mail Exchange): MX records specify the mail servers responsible for receiving email on behalf of a domain. While important, the primary issue here is the authentication of outgoing emails, which is handled by SPF, DKIM, and DMARC.
References:
* CompTIA Security+ Study Guide
* RFC 7208 (SPF), RFC 6376 (DKIM), and RFC 7489 (DMARC)
* NIST SP 800-45, "Guidelines on Electronic Mail Security"

NEW QUESTION # 187
A regulated company is in the process of refreshing its entire infrastructure. The company has a business-critical process running on an old 2008 Windows server. If this server fails, the company would lose millions of dollars in revenue. Which of the following actions should the company take?

- A. Create an organizational risk register for project prioritization.

- B. Implement network compensating controls.
- C. Accept the risk as the cost of doing business.
- D. Purchase insurance to offset the cost if a failure occurred.

Answer: A

Explanation:
Creating an organizational risk register ensures the issue is documented and prioritized for mitigation, aligning with risk management best practices. Accepting the risk is not advisable due to the financial implications of failure. Implementing network compensating controls does not address server reliability. Purchasing insurance only offsets financial risk and does not ensure system functionality.

NEW QUESTION # 188
An organization purchased a new manufacturing facility and the security administrator needs to:
* Implement security monitoring.
* Protect any non-traditional device(s)/network(s).
* Ensure no downtime for critical systems.
Which of the following strategies best meets these requirements?

- A. Observing the environment and proactively addressing any malicious activity
- B. Applying updates and patches soon after they have been released
- C. Analyzing system behavior and responding to any increase in activity
- D. Configuring honeypots in the internal network to capture malicious activity

Answer: A

Explanation:
For operational technology (OT) and non-traditional devices, downtime must be avoided. CAS-005 recommends passive monitoring and proactive response for environments where active scanning or changes could disrupt operations. Observing the environment continuously and acting on malicious indicators allows security without interrupting critical manufacturing processes.
Honeypots (A) are good for research but don't provide full facility monitoring.
Behavioral analysis (B) is reactive without proactive measures.
Patching (C) is important but could cause downtime and may be limited in OT environments.

NEW QUESTION # 189
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