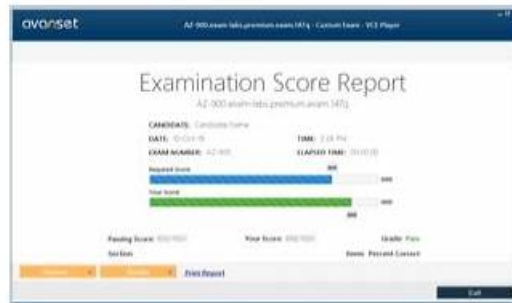


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CompTIA CAS-005 Exam Syllabus Topics:

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	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.

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CompTIA SecurityX Certification Exam Sample Questions (Q36-Q41):

NEW QUESTION # 36

An organization is required to

- * Respond to internal and external inquiries in a timely manner
- * Provide transparency.
- * Comply with regulatory requirements

The organization has not experienced any reportable breaches but wants to be prepared if a breach occurs in the future. Which of the following is the best way for the organization to prepare?

- A. Integrating automated response mechanisms into the data subject access request process
- **B. Developing communication templates that have been vetted by internal and external counsel**
- C. Outsourcing the handling of necessary regulatory filing to an external consultant
- D. Conducting lessons-learned activities and integrating observations into the crisis management plan

Answer: B

Explanation:

Preparing communication templates that have been vetted by both internal and external counsel ensures that the organization can respond quickly and effectively to internal and external inquiries, comply with regulatory requirements, and provide transparency in the event of a breach.

Why Communication Templates?

- * **Timely Response:** Pre-prepared templates ensure that responses are ready to be deployed quickly, reducing response time.
- * **Regulatory Compliance:** Templates vetted by counsel ensure that all communications meet legal and regulatory requirements.
- * **Consistent Messaging:** Ensures that all responses are consistent, clear, and accurate, maintaining the organization's credibility.
- * **Crisis Management:** Pre-prepared templates are a critical component of a broader crisis management plan, ensuring that all stakeholders are informed appropriately.

Other options, while useful, do not provide the same level of preparedness and compliance:

- * **A. Outsourcing to an external consultant:** This may delay response times and lose internal control over the communication.
- * **B. Integrating automated response mechanisms:** Useful for efficiency but not for ensuring compliant and vetted responses.
- * **D. Conducting lessons-learned activities:** Important for improving processes but does not provide immediate preparedness for communication.

References:

- * CompTIA SecurityX Study Guide
- * NIST Special Publication 800-61 Revision 2, "Computer Security Incident Handling Guide"
- * ISO/IEC 27002:2013, "Information technology - Security techniques - Code of practice for information security controls"

NEW QUESTION # 37

A company is preparing to move a new version of a web application to production. No issues were reported during security scanning or quality assurance in the CI/CD pipeline. Which of the following actions should the company take next?

- A. Conduct unit testing on the submitted code
- B. Perform threat modeling on the production application
- **C. Merge the test branch to the main branch**
- D. Perform a peer review on the test branch

Answer: C

Explanation:

The question states that security scanning and quality assurance (QA) in the CI/CD pipeline have been completed with no issues, indicating that the code in the test branch is ready for production. According to the CompTIA SecurityX CAS-005 study guide (Domain 2: Security Operations, 2.3), in a secure CI/CD pipeline, once code passes automated security scans, QA, and other checks (e.g., unit testing, peer reviews), the next step is to merge the tested branch into the main branch for deployment to production.

Option B: Threat modeling is typically performed earlier, during design or development, not after passing CI/CD checks.

Option C: Unit testing is part of the CI/CD pipeline and should already be completed.

Option D: Peer reviews are conducted before or during the test phase, not after QA and security scans are clear.

Option A: Merging the test branch to the main branch is the logical next step to prepare for production deployment.

Reference:

CompTIA SecurityX CAS-005 Official Study Guide, Domain 2: Security Operations, Section 2.3: "Manage secure software development lifecycles, including CI/CD pipelines." CAS-005 Exam Objectives, 2.3: "Analyze secure deployment processes in CI/CD environments."

NEW QUESTION # 38

An incident response team is analyzing malware and observes the following:

- * Does not execute in a sandbox
- * No network IoCs
- * No publicly known hash match
- * No process injection method detected

Which of the following should the team do next to proceed with further analysis?

- A. Search other internal sources for a new sample.
- **B. Check for an anti-virtualization code in the sample**
- C. Use an online virus analysis tool to analyze the sample
- D. Utilize a new deployed machine to run the sample.

Answer: B

Explanation:

Malware that does not execute in a sandbox environment often contains anti-analysis techniques, such as anti-virtualization code. This code detects when the malware is running in a virtualized environment and alters its behavior to avoid detection. Checking for anti-virtualization code is a logical next step because:

It helps determine if the malware is designed to evade analysis tools.

Identifying such code can provide insights into the malware's behavior and intent.

This step can also inform further analysis methods, such as running the malware on physical hardware.

NEW QUESTION # 39

A company isolated its OT systems from other areas of the corporate network. These systems are required to report usage information over the internet to the vendor.

Which of the following best reduces the risk of compromise or sabotage? (Select two).

- A. Executing daily health checks
- B. Monitoring network behavior
- C. Encrypting data at rest
- **D. Implementing a site-to-site IPSec VPN**
- E. Performing boot integrity checks
- **F. Implementing allow lists**

Answer: D,F

Explanation:

Implementing allow lists: Allow lists (whitelisting) restrict network communication to only authorized devices and applications, significantly reducing the attack surface by ensuring that only pre-approved traffic is permitted.

Implementing a site-to-site IPSec VPN: A site-to-site VPN provides a secure, encrypted tunnel for data transmission between the OT systems and the vendor, protecting the data from interception and tampering during transit.

NEW QUESTION # 40

A systems administrator wants to use existing resources to automate reporting from disparate security appliances that do not currently communicate. Which of the following is the best way to meet this objective?

- A. Combining back-end application storage into a single, relational database
- B. Configuring an API Integration to aggregate the different data sets
- C. Purchasing and deploying commercial off the shelf aggregation software
- D. Migrating application usage logs to on-premises storage

Answer: B

Explanation:

The best way to automate reporting from disparate security appliances that do not currently communicate is to configure an API Integration to aggregate the different data sets. Here's why:

* **Interoperability:** APIs allow different systems to communicate and share data, even if they were not originally designed to work together. This enables the integration of various security appliances into a unified reporting system.

* Automation: API integrations can automate the process of data collection, aggregation, and reporting, reducing manual effort and increasing efficiency.

* Scalability: APIs provide a scalable solution that can easily be extended to include additional security appliances or data sources as needed.

* References:

* CompTIA Security+ SY0-601 Study Guide by Mike Chapple and David Seidl

* NIST Special Publication 800-95: Guide to Secure Web Services

* OWASP API Security Top Ten

NEW QUESTION # 41

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