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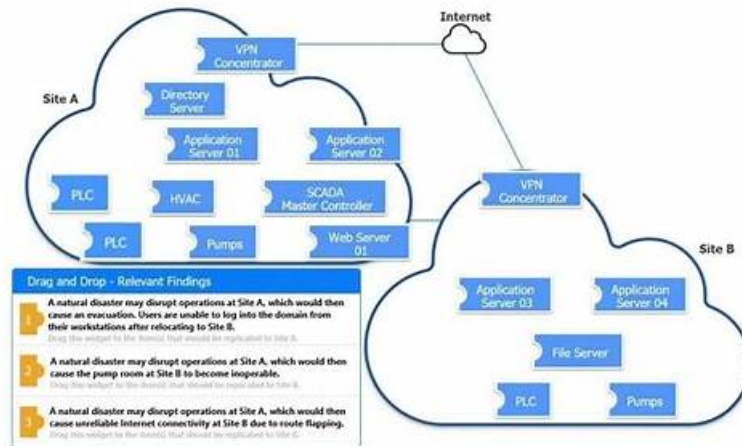
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CompTIA CAS-005 Exam Syllabus Topics:

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	• Security Architecture: This domain focuses on analyzing requirements to design resilient systems, including the configuration of firewalls and intrusion detection 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 (Q176-Q181):

NEW QUESTION # 176
Within a SCADA a business needs access to the historian server in order together metric about the functionality of the environment. Which of the following actions should be taken to address this requirement?

- **A. Isolating the historian server for connections only from The SCADA environment**
- B. Deploying a screened subnet between 11 and SCADA
- C. Adding the business workstations to the SCADA domain
- D. Publishing the C$ share from SCADA to the enterprise

Answer: A

Explanation:
The best action to address the requirement of accessing the historian server within a SCADA system is to isolate the historian server for connections only from the SCADA environment. Here's why:
* Security and Isolation: Isolating the historian server ensures that only authorized devices within the SCADA environment can connect to it. This minimizes the attack surface and protects sensitive data from unauthorized access.
* Access Control: By restricting access to the historian server to only SCADA devices, the organization can better control and monitor interactions, ensuring that only legitimate queries and data retrievals occur.
* Best Practices for Critical Infrastructure: Following the principle of least privilege, isolating critical components like the historian server is a standard practice in securing SCADA systems, reducing the risk of cyberattacks.
* References:
* CompTIA Security+ SY0-601 Study Guide by Mike Chapple and David Seidl
* NIST Special Publication 800-82: Guide to Industrial Control Systems (ICS) Security
* ISA/IEC 62443 Standards: Security for Industrial Automation and Control Systems

NEW QUESTION # 177
A security analyst notices a number of SIEM events that show the following activity:
10/30/2020 - 8:01 UTC - 192.168.1.1 - sc stop HinDctend
10/30/2020 - 8:05 UTC - 192.168.1.2 - c:\program files\games\comptidcasp.exe
10/30/2020 - 8:07 UTC - 192.168.1.1 - c:\windows\system32\cmd.exe /c powershell
10/30/2020 - 8:07 UTC - 192.168.1.1 - powershell -> 40.90.23.154:443
Which of the following response actions should the analyst take first?

- A. Restart Microsoft Windows Defender
- B. Disable powershell.exe on all Microsoft Windows endpoints
- **C. Configure the forward proxy to block 40.90.23.154**
- D. Disable local administrator privileges on the endpoints

Answer: C

Explanation:
The first immediate action in an active incident is containment. Blocking the IP address (40.90.23.154) at the network edge prevents further communication with the malicious external server. Disabling PowerShell or removing local admin privileges are valid hardening steps, but containment by network control is the highest priority during an active compromise to stop data exfiltration or further command and control activity.

NEW QUESTION # 178

A security architect for a global organization with a distributed workforce recently received funding lo deploy a CASB solution
Which of the following most likely explains the choice to use a proxy-based CASB?

- A. Privacy compliance obligations are bypassed when using a user-based deployment.
- B. The capability to block unapproved applications and services is possible
- C. Protecting and regularly rotating API secret keys requires a significant time commitment
- D. Corporate devices cannot receive certificates when not connected to on-premises devices

Answer: B

Explanation:
A proxy-based Cloud Access Security Broker (CASB) is chosen primarily for its ability to block unapproved applications and services. Here's why:
* Application and Service Control: Proxy-based CASBs can monitor and control the use of applications and services by inspecting traffic as it passes through the proxy. This allows the organization to enforce policies that block unapproved applications and services, ensuring compliance with security policies.
* Visibility and Monitoring: By routing traffic through the proxy, the CASB can provide detailed visibility into user activities and data flows, enabling better monitoring and threat detection.
* Real-Time Protection: Proxy-based CASBs can provide real-time protection against threats by analyzing and controlling traffic before it reaches the end user, thus preventing the use of risky applications and services.
* References:
* CompTIA Security+ SY0-601 Study Guide by Mike Chapple and David Seidl
* NIST Special Publication 800-125: Guide to Security for Full Virtualization Technologies
* Gartner CASB Market Guide

NEW QUESTION # 179

Which of the following best describes the challenges associated with widespread adoption of homomorphic encryption techniques?

- A. No use cases to drive adoption
- B. Incomplete mathematical primitives
- C. insufficient coprocessor support
- D. Quantum computers not yet capable

Answer: C

Explanation:
Homomorphic encryption allows computations to be performed on encrypted data without decrypting it, providing strong privacy guarantees. However, the adoption of homomorphic encryption is challenging due to several factors:
A . Incomplete mathematical primitives: This is not the primary barrier as the theoretical foundations of homomorphic encryption are well-developed.
B . No use cases to drive adoption: There are several compelling use cases for homomorphic encryption, especially in privacy-sensitive fields like healthcare and finance.
C . Quantum computers not yet capable: Quantum computing is not directly related to the challenges of adopting homomorphic encryption.
D . Insufficient coprocessor support: The computational overhead of homomorphic encryption is significant, requiring substantial processing power. Current general-purpose processors are not optimized for the intensive computations required by homomorphic encryption, limiting its practical deployment. Specialized hardware or coprocessors designed to handle these computations more efficiently are not yet widely available.
Reference:
CompTIA Security+ Study Guide
"Homomorphic Encryption: Applications and Challenges" by Rivest et al.
NIST, "Report on Post-Quantum Cryptography"

NEW QUESTION # 180

A company wants to improve and automate the compliance of its cloud environments to meet industry standards. Which of the following resources should the company use to best achieve this goal?

- A. Ansible

- B. PowerShell
- C. Python
- D. Jenkins

Answer: A

Explanation:
Comprehensive and Detailed
Automating compliance in cloudenvironments requires a tool that can enforce configurations, manage infrastructure as code, and align with industry standards (e.g., NIST, ISO). Let's evaluate:
A . Jenkins:A CI/CD tool for automating software builds and deployments. It's not designed for compliance enforcement or infrastructure management.
B . Python:A programming language that can be scripted for automation but lacks built-in compliance-focused features without significant custom development.
C . Ansible:An automation tool for configuration management, application deployment, and compliance enforcement. It uses playbooks to define desired states, making it ideal for automating compliance checks and remediation in cloud environments (e.g., AWS, Azure). CAS-005 emphasizes automation tools for security and compliance, and Ansible fits perfectly.

NEW QUESTION # 181

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