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ISACA CCOA Exam Syllabus Topics:

Topic	Details
Topic 1	• 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 2	• 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.
Topic 3	• 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 4	• 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 5	• 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.

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ISACA Certified Cybersecurity Operations Analyst Sample Questions (Q88-Q93):

NEW QUESTION # 88
Which of the following BEST describes JSON web tokens?

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

Answer: C

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 # 89
A cybersecurity analyst has discovered a vulnerability in an organization's web application. Which ofthe following should be done FIRST to address this vulnerability?

- A. Attempt to exploit the vulnerability to determine its severity.
- B. Follow the organization's incident response management procedures.
- C. Restart the web server hosting the web application.
- D. Immediately shut down the web application to prevent exploitation.

Answer: B

Explanation:
When a cybersecurity analyst discovers a vulnerability, thefirst stepis to follow theorganization's incident response procedures.
* Consistency:Ensures that the vulnerability is handled systematically and consistently.
* Risk Mitigation:Prevents hasty actions that could disrupt services or result in data loss.
* Documentation:Helps record the discovery, assessment, and remediation steps for future reference.
* Coordination:Involves relevant stakeholders, including IT, security teams, and management.
Incorrect Options:
* A. Restart the web server:May cause service disruption and does not address the root cause.
* B. Shut down the application:Premature without assessing the severity and impact.
* D. Attempt to exploit the vulnerability:This should be part of the risk assessment after following the response protocol.
Exact Extract from CCOA Official Review Manual, 1st Edition:
Refer to Chapter 6, Section "Incident Response and Management," Subsection "Initial Response Procedures" - Follow established protocols to ensure controlled and coordinated action.

NEW QUESTION # 90
A small organization has identified a potential risk associated with its outdated backup system and has decided to implement a new cloud-based real-time backup system to reduce the likelihood of data loss. Which of the following risk responses has the organization chosen?

- A. Risk mitigation
- B. Risk transfer
- C. Risk acceptance
- D. Risk avoidance

Answer: A

Explanation:
The organization is implementing anew cloud-based real-time backup systemto reduce the likelihood of data loss, which is an example ofrisk mitigationbecause:
* Reducing Risk Impact:By upgrading from an outdated system, the organization minimizes the potential consequences of data loss.
* Implementing Controls:The new backup system is aproactive control measuredesigned to decrease the risk.
* Enhancing Recovery Capabilities:Real-time backups ensure that data remains intact and recoverable even in case of a failure.
Other options analysis:
* B. Risk avoidance:Involves eliminating the risk entirely, not just reducing it.
* C. Risk transfer:Typically involves shifting the risk to a third party (like insurance), not implementing technical controls.
* D. Risk acceptance:Involves acknowledging the risk without implementing changes.
CCOA Official Review Manual, 1st Edition References:
* Chapter 5: Risk Management:Clearly differentiates between mitigation, avoidance, transfer, and acceptance.
* Chapter 7: Backup and Recovery Planning:Discusses modern data protection strategies and their risk implications.

NEW QUESTION # 91
An insecure continuous integration and continuous delivery (CI/CD) pipeline would MOST likely lead to:

- A. security monitoring failures.
- B. browser compatibility Issues.
- C. software Integrity failures.
- D. broken access control.

Answer: C

Explanation:
An insecure CI/CD pipeline can lead to software integrity failures primarily due to the risk of:
* Code Injection:Unauthenticated or poorly controlled access to the CI/CD pipeline can allow attackers to inject malicious code during build or deployment.
* Compromised Dependencies:Automated builds may incorporate malicious third-party libraries or components, compromising the final product.

* Insufficient Access Control:Without proper authentication and authorization mechanisms, unauthorized users might modify build configurations or artifacts.
* Pipeline Poisoning:Attackers can alter the pipeline to include vulnerabilities or backdoors.
Due to the above risks, software integrity can be compromised, resulting in the distribution of tampered or malicious software.
Incorrect Options:
* B. Broken access control:This is a more general web application security issue, not specific to CI/CD pipelines.
* C. Security monitoring failures:While possible, this is not the most direct consequence of CI/CD pipeline insecurities.
* D. Browser compatibility Issues:This is unrelated to CI/CD security concerns.
Exact Extract from CCOA Official Review Manual, 1st Edition:
Refer to Chapter 6, Section "DevSecOps and CI/CD Security", Subsection "Risks and Vulnerabilities in CI
/CD Pipelines" - Insecure CI/CD pipelines can compromise software integrity due to code injection and dependency attacks.

NEW QUESTION # 92
When identifying vulnerabilities, which of the following should a cybersecurity analyst determine FIRST?

- A. The vulnerability categories Identifiable by the scanning tool
- B. The number of vulnerabilities Identifiable by the scanning tool
- C. The vulnerability categories possible for the tested asset types
- D. The numberof tested asset types included in the assessment

Answer: C

Explanation:
When identifying vulnerabilities, thefirst stepfor a cybersecurity analyst is to determine thevulnerability categories possible for the tested asset typesbecause:
* Asset-Specific Vulnerabilities:Different asset types (e.g., servers, workstations, IoT devices) are susceptible to different vulnerabilities.
* Targeted Scanning:Knowing the asset type helps in choosing the correctvulnerability scanning tools and configurations.
* Accuracy in Assessment:This ensures that the scan is tailored to the specific vulnerabilities associated with those assets.
* Efficiency:Reduces false positives and negatives by focusing on relevant vulnerability categories.
Other options analysis:
* A. Number of vulnerabilities identifiable:This is secondary; understanding relevant categories comes first.
* B. Number of tested asset types:Knowing asset types is useful, but identifying their specific vulnerabilities is more crucial.
* D. Vulnerability categories identifiable by the tool:Tool capabilities matter, but only after determining what needs to be tested.
CCOA Official Review Manual, 1st Edition References:
* Chapter 6: Vulnerability Management:Discusses the importance of asset-specific vulnerability identification.
* Chapter 8: Threat and Vulnerability Assessment:Highlights the relevance of asset categorization.

NEW QUESTION # 93
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Tests

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