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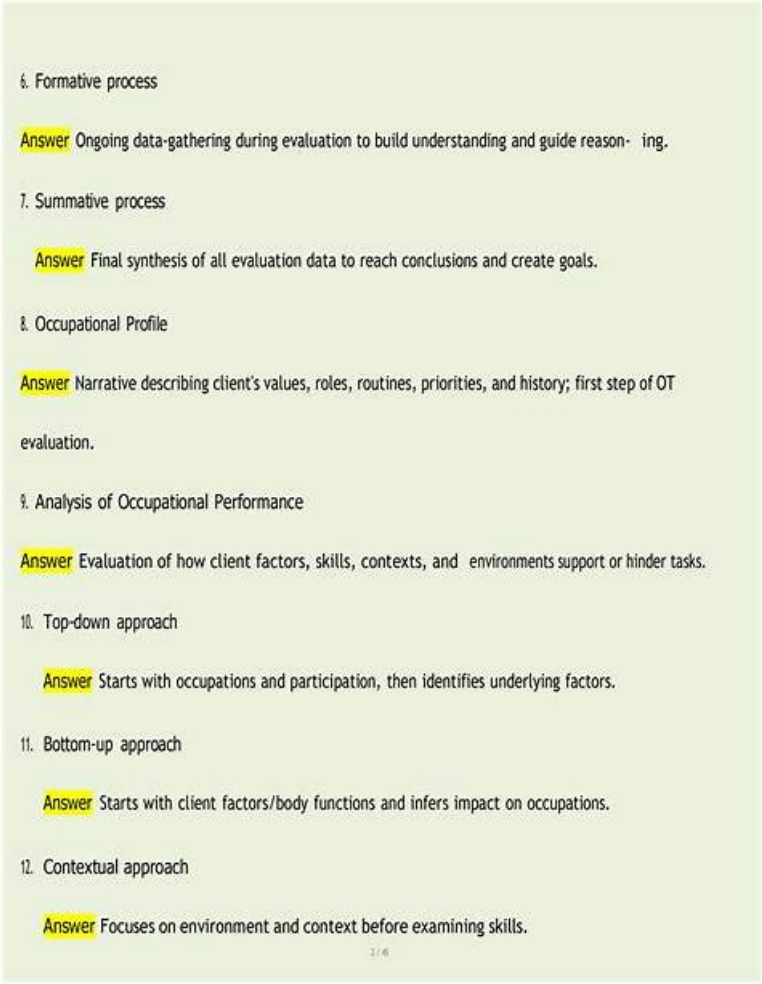

6. Formative process

Answer Ongoing data-gathering during evaluation to build understanding and guide reason- ing.

7. Summative process

Answer Final synthesis of all evaluation data to reach conclusions and create goals.

8. Occupational Profile

Answer Narrative describing client's values, roles, routines, priorities, and history; first step of OT evaluation.

9. Analysis of Occupational Performance

Answer Evaluation of how client factors, skills, contexts, and environments support or hinder tasks.

10. Top-down approach

Answer Starts with occupations and participation, then identifies underlying factors.

11. Bottom-up approach

Answer Starts with client factors/body functions and infers impact on occupations.

12. Contextual approach

Answer Focuses on environment and context before examining skills.

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CompTIA CAS-004, also known as the CompTIA Advanced Security Practitioner (CASP+), is a certification exam designed for experienced IT professionals looking to advance their careers in the field of cybersecurity. CAS-004 exam validates the skills and knowledge required to conceptualize, design, and implement secure solutions across complex enterprise environments.

Candidates for the CompTIA CAS-004 Exam are typically experienced IT professionals with a minimum of 5 years of hands-on experience in IT security. CAS-004 exam is designed to test the candidate's ability to apply their skills and knowledge to real-world scenarios, making it an excellent choice for professionals who want to advance their careers in IT security.

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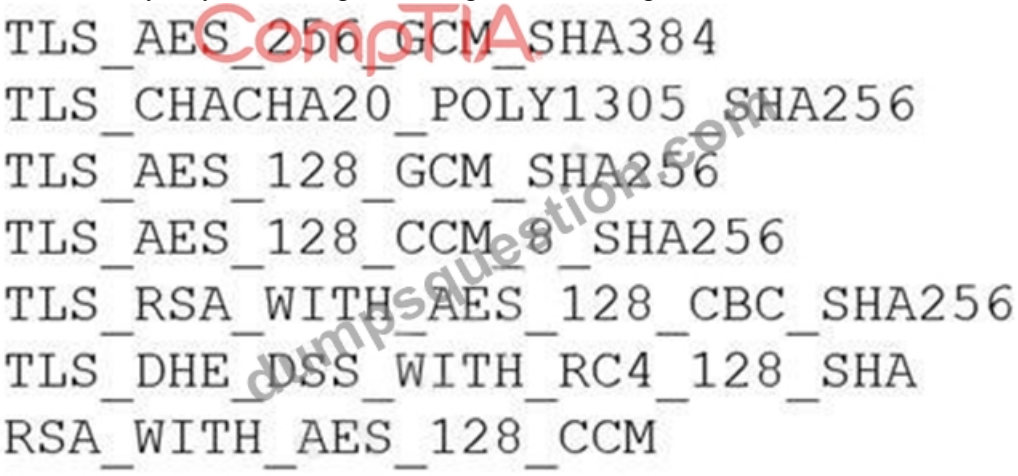
CompTIA Advanced Security Practitioner (CASP+) Exam Sample Questions (Q411-Q416):

NEW QUESTION # 411
A new web server must comply with new secure-by-design principles and PCI DSS. This includes mitigating the risk of an on-path attack. A security analyst is reviewing the following web server configuration:



Which of the following ciphers should the security analyst remove to support the business requirements?

- A. TLS_CHACHA20_POLY1305_SHA256
- B. TLS_AES_128_CCM_8_SHA256
- C. TLS_DHE_DSS_WITH_RC4_128_SHA
- D. TLS_AES_128_GCM_SHA256

Answer: C

NEW QUESTION # 412
A security manager is determining the best DLP solution for an enterprise.
A list of requirements was created to use during the source selection.
The security manager wants to confirm a solution exists for the requirements that have been defined.
Which of the following should the security manager use?

- A. MSA
- B. RFP
- C. RFI
- D. RFQ
- E. NDA

Answer: C

NEW QUESTION # 413
A recentDASTscan indicates an application has multiple issues withpath traversal. Which of the following is thebestaction for the development team to take?

- A. Develop a secure library for file handling that normalizes and validates the input path.
- B. Implement a blocklist for a specific set of meta characters.
- C. Deploy a code sandbox solution that reduces the application's permissions.
- D. Create a sandbox for the application that disallows filesystem access.
- E. Ensure that output encoding is appropriately implemented on all data fields.

Answer: A

Explanation:
Comprehensive and Detailed in-Depth Explanation:
Understanding Path Traversal:
Path Traversalvulnerabilities occur when an applicationimproperly handles user input, allowing an attacker totraverse directorieson the server andaccess restricted files.
Attackers typically use sequences like../to move up directory levels, allowing access to critical files such as:
/etc/passwd(on Linux)
C:\Windows\system32(on Windows)
Example of Vulnerable Code:
python
CopyEdit
import os
def read_file(filename):
with open("/var/www/app/" + filename, "r") as f:
return f.read()
If the inputfilenameis../../etc/passwd, the file/etc/passwdmight be exposed.
Why the Correct Answer is A (Develop a secure library for file handling that normalizes and validates the input path):
Themost effective defense against path traversalis tosanitize and normalizefile paths before processing.
Techniques include:
Input Validation:Restricting input toexpected patterns, such as specific filenames or directories.
Path Normalization:Using functions likeos.path.normpath()to collapse redundant separators and up-level references.
Absolute Path Verification:Ensuring that theresolved pathis within anexpected directory.
Using asecure library for file handlingcentralizes these practices, reducing the risk of inconsistent or incomplete implementations.
Example of Secure Implementation:
python
CopyEdit
import os
def secure_read_file(filename):
# Normalize and validate the input path
safe_base = "/var/www/app/"
safe_path = os.path.normpath(os.path.join(safe_base, filename))
# Check if the path starts with the base directory
if os.path.commonprefix([safe_base, safe_path]) == safe_base:
with open(safe_path, "r") as f:
return f.read()
else:
raise ValueError("Invalid file path")
Why the Other Options Are Incorrect:
B: Create a sandbox for the application that disallows filesystem access:
Sandboxing is useful forlimiting damagebut does notdirectly address the root causeof path traversal.
Path traversal can still occurwithin the sandbox, compromising other files.
C: Ensure that output encoding is appropriately implemented on all data fields:
Encoding addressesinjection attacks(like XSS), not path traversal.
Encoding does notmitigate directory traversalvulnerabilities.
D: Implement a blocklist for a specific set of meta characters:
Blocklists are prone tobypass techniques(e.g., using alternative encodings or unexpected separators).
Ablocklist approachisless reliablecompared towhitelisting and path normalization.
E: Deploy a code sandbox solution that reduces the application's permissions:
Reducing permissionslimits damagebut does notprevent traversal attacks.
Attackers can still exploitpath traversalto access unintended data within permitted areas.
Real-World Scenario:
A path traversal vulnerability in a popular CMS allowed attackers to readconfiguration filesanddatabase credentials.
Thefix involved using safe librariesfor file handling andnormalizing pathsto ensure they were withinpermitted directories.
Extract from CompTIA SecurityX CAS-005 Study Guide:
TheCompTIA SecurityX CAS-005 Official Study Guiderecommends the use ofsecure coding practicesfor file operations, particularly to prevent path traversal attacks. It emphasizes usingpath normalization and validationas theprimary defense mechanism.
By centralizing file handling through asecure library, developers canconsistently enforce security measuresacross the application.

NEW QUESTION # 414
An organization established an agreement with a partner company for specialized help desk services. A senior security officer within the organization Is tasked with providing documentation required to set up a dedicated VPN between the two entities. Which of the following should be required?

- A. MOU
- B. NDA
- C. SLA
- D. ISA

Answer: D

Explanation:
An ISA, or interconnection security agreement, is a document that should be required to set up a dedicated VPN between two entities that provide specialized help desk services. An ISA defines the technical and security requirements for establishing, operating, and maintaining a secure connection between two or more organizations. An ISA also specifies the roles and responsibilities of each party, the security controls and policies to be implemented, the data types and classifications to be exchanged, and the incident response procedures to be followed.

NEW QUESTION # 415
A company recently migrated its critical web application to a cloud provider's environment. As part of the company's risk management program, the company intends to conduct an external penetration test. According to the scope of work and the rules of engagement, the penetrationtester will validate the web application's security and check for opportunities to expose sensitive company information in the newly migrated cloud environment. Which of the following should be the first consideration prior to engaging in the test?

- A. Prepare a redundant server to ensure the critical web application's availability during the test.
- B. Ensure the latest patches and signatures are deployed on the web server.
- C. Obtain agreement between the company and the cloud provider to conduct penetration testing.
- D. Create an NDA between the external penetration tester and the company.

Answer: C

Explanation:
Before conducting a penetration test in a cloud environment, it is critical to first obtain permission from the cloud service provider. Cloud providers often have strict rules about penetration testing to avoid unintended service disruptions or violations of service agreements. Without this agreement, the company could face legal or operational consequences. This aligns with CASP+ best practices, which emphasize the importance of securing approval and understanding shared responsibility models in cloud environments before engaging in security testing.
References:
CASP+ CAS-004 Exam Objectives: Domain 1.0 - Risk Management (Penetration Testing in Cloud Environments) CompTIA CASP+ Study Guide: Cloud Security and Legal Considerations for Penetration Testing

NEW QUESTION # 416
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