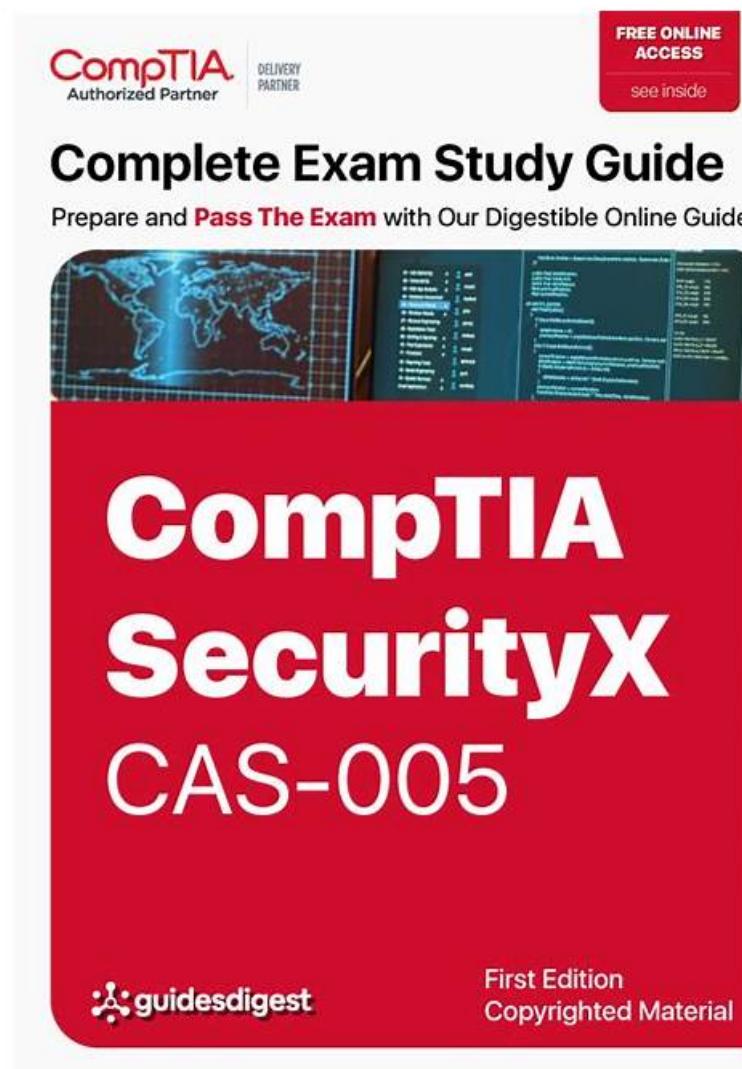


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## CompTIA CAS-005 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"><li>• Security Architecture: This domain focuses on analyzing requirements to design resilient systems, including the configuration of firewalls and intrusion detection systems.</li></ul>
Topic 2	<ul style="list-style-type: none"><li>• 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.</li></ul>
Topic 3	<ul style="list-style-type: none"><li>• 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.</li></ul>
Topic 4	<ul style="list-style-type: none"><li>• 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.</li></ul>

## CompTIA SecurityX Certification Exam Sample Questions (Q229-Q234):

### NEW QUESTION # 229

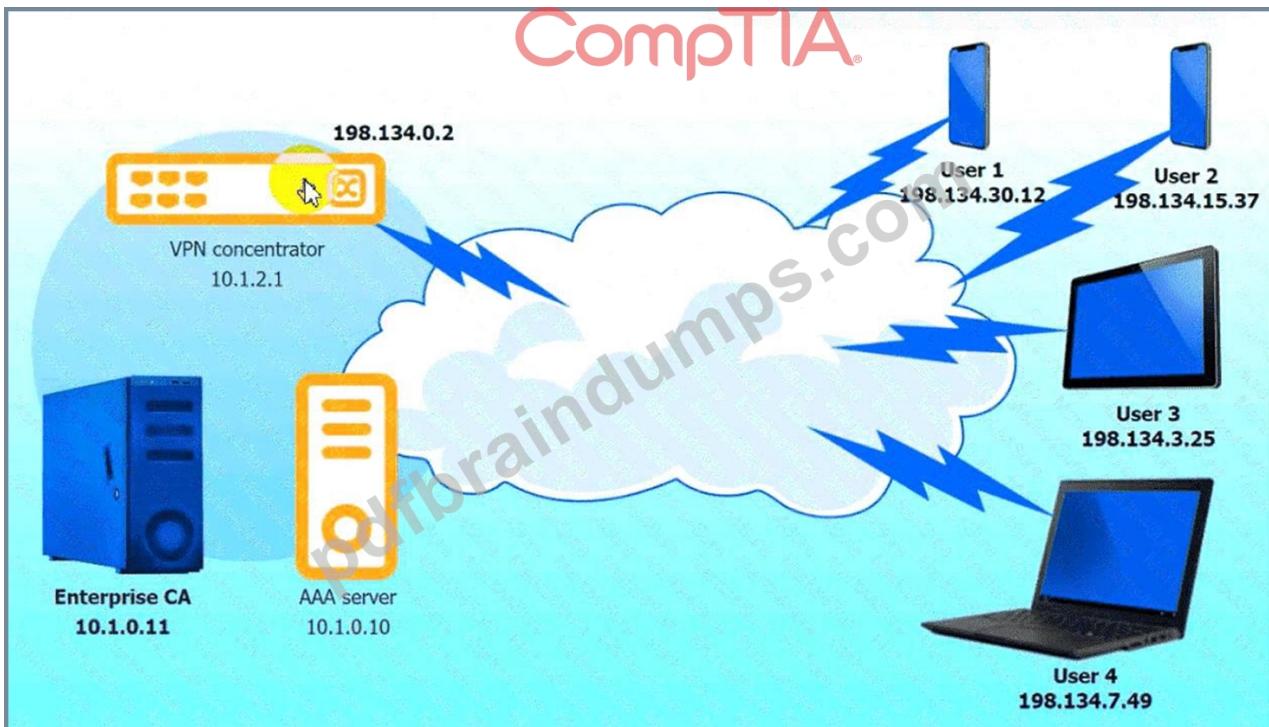
An IPSec solution is being deployed. The configuration files for both the VPN concentrator and the AAA server are shown in the diagram.

Complete the configuration files to meet the following requirements:

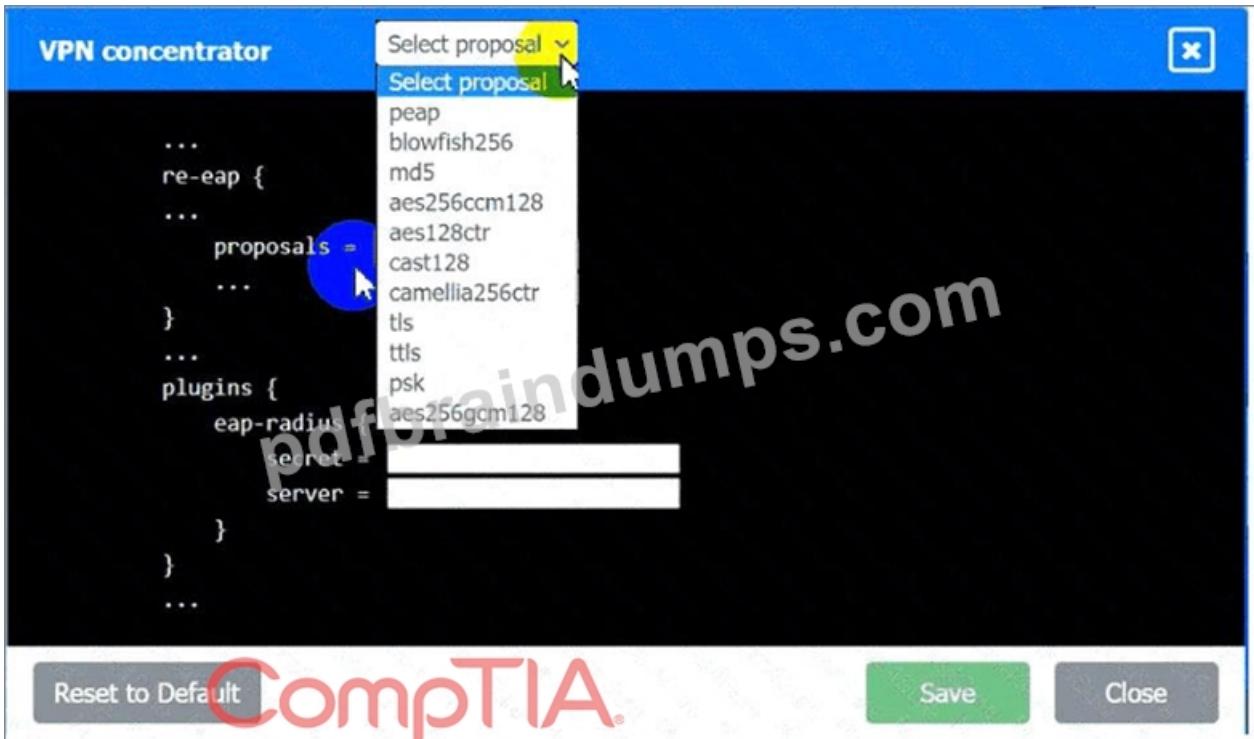
- \* The EAP method must use mutual certificate-based authentication (With issued client certificates).
- \* The IKEv2 Cipher suite must be configured to the MOST secure authenticated mode of operation,
- \* The secret must contain at least one uppercase character, one lowercase character, one numeric character, and one special character, and it must meet a minimum length requirement of eight characters, INSTRUCTIONS Click on the AAA server and VPN concentrator to complete the configuration.

Fill in the appropriate fields and make selections from the drop-down menus.

ComptIA



VPN Concentrator:



AAA Server:

AAA server



```
...  
eap {  
    default_eap_type =  
}  
...  
client conc {  
    ip addr = [REDACTED]  
    secret = [REDACTED]  
    require_message_authenticator = yes  
}  
...
```

A context menu is open over the 'eap' block, listing options: tls, cast128, peap, md5, aes256gcm128, aes128ctr, psk, blowfish256, aes256ccm128, ttls, and camellia256ctr. The 'aes256ccm128' option is highlighted with a red box.

Reset to Default

Save

Close

**Answer:**

Explanation:

See the answer below in Explanation.

Explanation:

VPN Concentrator:

A screenshot of a computer Description automatically generated

VPN concentrator



```
...  
re-eap {  
    ...  
    proposals = [REDACTED]  
    ...  
}  
...  
plugins {  
    eap-radius {  
        secret = $3cur3!P@ssw0rd  
        server = 192.168.1.100  
    }  
    ...  
}
```

A context menu is open over the 'proposals' block, listing options: peap, blowfish256, md5, aes256ccm128, aes128ctr, cast128, camellia256ctr, ttls, psk, and aes256gcm128. The 'aes256ccm128' option is highlighted with a red box.

AAA Server:

A screenshot of a computer Description automatically generated

AAA server

```
...  
eap {  
    default_eap_type =  
    ...  
}  
...  
client conc {  
    ip_addr = 192.168.1.100  
    secret = S3cur3!P@ssw0rd  
    require_message_authenticator = yes  
}  
...
```

Select eap

- tls
- cast128
- peap
- md5
- aes256gcm128
- aes128ctr
- psk
- blowfish256
- aes256ccm128
- ttls
- camellia256ctr

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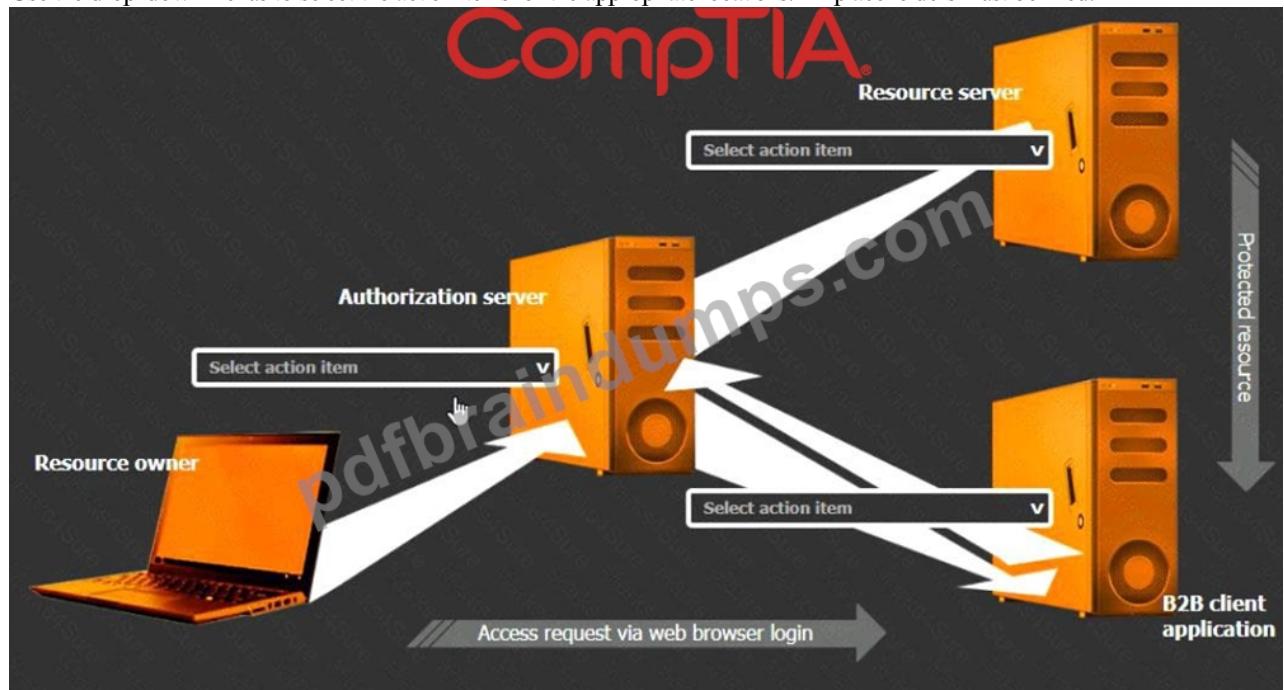
#### NEW QUESTION # 230

You are tasked with integrating a new B2B client application with an existing OAuth workflow that must meet the following requirements:

- . The application does not need to know the users' credentials.
- . An approval interaction between the users and the HTTP service must be orchestrated.
- . The application must have limited access to users' data.

#### INSTRUCTIONS

Use the drop-down menus to select the action items for the appropriate locations. All placeholders must be filled.





#### Answer:

Explanation:

Select the Action Items for the Appropriate Locations:

- \* Authorization Server:
- \* Action Item: Grant access
- \* Explanation: The authorization server's role is to authenticate the user and then issue an authorization code or token that the client application can use to access resources. Granting access involves the server authenticating the resource owner and providing the necessary tokens for the client application.
- \* Resource Server:
- \* Action Item: Access issued tokens
- \* Explanation: The resource server is responsible for serving the resources requested by the client application. It must verify the issued tokens from the authorization server to ensure the client has the right permissions to access the requested data.
- \* B2B Client Application:
- \* Action Item: Authorize access to other applications
- \* Explanation: The B2B client application must handle the OAuth flow to authorize access on behalf of the user without requiring direct knowledge of the user's credentials. This includes obtaining authorization tokens from the authorization server and using them to request access to the resource server.

Detailed Explanation:

OAuth 2.0 is designed to provide specific authorization flows for web applications, desktop applications, mobile phones, and living room devices. The integration involves multiple steps and components, including:

- \* Resource Owner (User):
- \* The user owns the data and resources that are being accessed.
- \* Client Application (B2B Client Application):
- \* Requests access to the resources controlled by the resource owner but does not directly handle the user's credentials. Instead, it uses tokens obtained through the OAuth flow.
- \* Authorization Server:
- \* Handles the authentication of the resource owner and issues the access tokens to the client application upon successful authentication.
- \* Resource Server:
- \* Hosts the resources that the client application wants to access. It verifies the access tokens issued by the authorization server before granting access to the resources.

OAuth Workflow:

- \* The resource owner accesses the client application.
- \* The client application redirects the resource owner to the authorization server for authentication.
- \* The authorization server authenticates the resource owner and asks for consent to grant access to the client application.
- \* Upon consent, the authorization server issues an authorization code or token to the client application.
- \* The client application uses the authorization code or token to request access to the resources from the resource server.

\* The resource server verifies the token with the authorization server and, if valid, grants access to the requested resources.

References:

\* CompTIA Security+ Study Guide: Provides comprehensive information on various authentication and authorization protocols, including OAuth.

\* OAuth 2.0 Authorization Framework (RFC 6749): The official documentation detailing the OAuth 2.0 framework, its flows, and components.

\* OAuth 2.0 Simplified: A book by Aaron Parecki that provides a detailed yet easy-to-understand explanation of the OAuth 2.0 protocol.

By ensuring that each component in the OAuth workflow performs its designated role, the B2B client application can securely access the necessary resources without compromising user credentials, adhering to the principle of least privilege.

## NEW QUESTION # 231

A security architect is implementing more restrictive policies to improve secure coding practices.

Which of the following solutions are the best ways to improve the security coding practices?

(Choose two.)

- A. Implement a SAST tool along the pipeline for every new commit.
- B. Perform regular vulnerability assessments on production software, defining tight SLAs for treatment.
- C. Deliver regular training for the software developers based on best practices.
- D. Perform regular code reviews and implement pair programming methodology.
- E. Hire a third-party company to perform regular software tests, including quality and unity tests.
- F. Define security gates and tests along the CI/CD flow with strict exception rules.

Answer: A,C

## NEW QUESTION # 232

A vulnerability can on a web server identified the following:

```
* TLS 1.2 Cipher Suites:  
The server accepted the following cipher suites:  
TLS_RSA_WITH_DES_CBC_SHA      56  
TLS_RSA_WITH_AES_128_CBC_SHA    128  
TLS_RSA_WITH_3DES_EDE_CBC_SHA  168  
TLS_DHE_RSA_WITH_3DES_EDE_CBC_SHA 168 bits (1024 bits)
```

Which of the following actions would most likely eliminate on path decryption attacks? (Select two).

- A. Removing support for CBC-based key exchange and signing algorithms
- B. Increasing the key length to 256 for TLS\_RSA\_WITH\_AES\_128\_CBC\_SHA
- C. Disallowing cipher suites that use ephemeral modes of operation for key agreement
- D. Restricting cipher suites to only allow TLS\_RSA\_WITH\_AES\_128\_CBC\_SHA
- E. Adding TLS\_ECDHE\_ECDSA\_WITH\_AES\_256\_GCM\_SHA256
- F. Implementing HIPS rules to identify and block BEAST attack attempts

Answer: A,E

Explanation:

On-path decryption attacks, such as BEAST (Browser Exploit Against SSL/TLS) and other related vulnerabilities, often exploit weaknesses in the implementation of CBC (Cipher Block Chaining) mode. To mitigate these attacks, the following actions are recommended:

B . Removing support for CBC-based key exchange and signing algorithms: CBC mode is vulnerable to certain attacks like BEAST. By removing support for CBC-based ciphers, you can eliminate one of the primary vectors for these attacks. Instead, use modern cipher modes like GCM (Galois/Counter Mode) which offer better security properties.

C . Adding TLS\_ECDHE\_ECDSA\_WITH\_AES\_256\_GCM\_SHA256: This cipher suite uses Elliptic Curve Diffie-Hellman Ephemeral (ECDHE) for key exchange, which provides perfect forward secrecy. It also uses AES in GCM mode, which is not susceptible to the same attacks as CBC. SHA-256 is a strong hash function that ensures data integrity.

Reference:

CompTIA Security+ Study Guide

NIST SP 800-52 Rev. 2, "Guidelines for the Selection, Configuration, and Use of Transport Layer Security (TLS) Implementations" OWASP (Open Web Application Security Project) guidelines on cryptography and secure communication

## NEW QUESTION # 233

A hospital provides tablets to its medical staff to enable them to more quickly access and edit patients' charts.

The hospital wants to ensure that if a tablet is identified as lost or stolen and a remote command is issued, the risk of data loss can be mitigated within seconds. The tablets are configured as follows:

- \* Full disk encryption is enabled.
- \* "Always On" corporate VPN is enabled.
- \* eFuse-backed keystore is enabled.
- \* Wi-Fi 6 is configured with SAE.
- \* Location services is disabled.
- \* Application allow list is unconfigured.

Assuming the hospital policy cannot be changed, which of the following is the best way to meet the hospital's objective?

- A. Revoke the user VPN and Wi-Fi certificates
- B. Configure the application allow list
- C. Issue new MFA credentials to all users
- D. Cryptographically erase FDE volumes

**Answer: D**

Explanation:

- \* The key requirement is to instantly eliminate data loss on a lost device.
- \* Cryptographic erasureworks by deleting encryption keys used for FDE (full disk encryption), rendering all data unrecoverable within seconds - satisfying the "mitigate within seconds" requirement.
- \* Revoking certificates won't wipe the data from a lost tablet.
- \* Changing MFA credentials won't help unless the device is secured, and app allow lists don't apply post-loss.
- \* From CAS-005, Domain 3: Secure Systems Design and Deployment:
  - \* "Cryptographic erase (CE) renders data irrecoverable by deleting encryption keys used to protect data on the device."

Reference: CAS-005 Guide, Chapter 9: Endpoint Security, pg. 178-180

## NEW QUESTION # 234

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