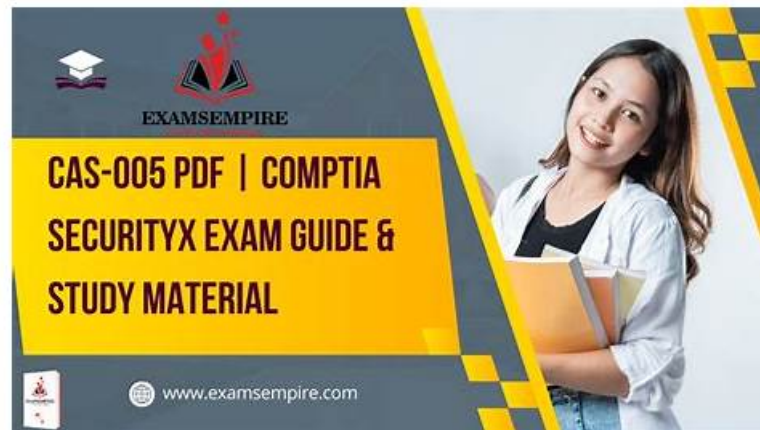


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CompTIA CAS-005 Exam Syllabus Topics:

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

>> CAS-005 Certification Exam <<

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CompTIA SecurityX Certification Exam Sample Questions (Q60-Q65):

NEW QUESTION # 60

Users must accept the terms presented in a captive portal when connecting to a guest network. Recently, users have reported that they are unable to access the Internet after joining the network. A network engineer observes the following:

- * Users should be redirected to the captive portal.
- * The captive portal runs TLS 1.2
- * Newer browser versions encounter security errors that cannot be bypassed
- * Certain websites cause unexpected redirects

Which of the following most likely explains this behavior?

- A. The TLS ciphers supported by the captive portal are deprecated
- B. Employment of the HSTS setting is proliferating rapidly.
- C. An attacker is redirecting supplicants to an evil twin WLAN.
- D. Allowed traffic rules are causing the NIPS to drop legitimate traffic

Answer: A

Explanation:

The most likely explanation for the issues encountered with the captive portal is that the TLS ciphers supported by the captive portal are deprecated. Here's why:

TLS Cipher Suites: Modern browsers are continuously updated to support the latest security standards and often drop support for deprecated and insecure cipher suites. If the captive portal uses outdated TLS ciphers, newer browsers may refuse to connect, causing security errors.

HSTS and Browser Security: Browsers with HTTP Strict Transport Security (HSTS) enabled will not allow connections to sites with weak security configurations. Deprecated TLS ciphers would cause these browsers to block the connection.

NEW QUESTION # 61

A pharmaceutical lab hired a consultant to identify potential risks associated with Building 2, a new facility that is under construction. The consultant received the IT project plan, which includes the following VLAN design:

Name	VLAN	Subnet	Function	Regulated network?
Building 1 servers	111	10.1.11.0/25	Servers	No
Building 1 users	100	10.1.0.0/23	User Wi-Fi and LAN	No
Building 1 HVAC	105	10.1.5.0/27	HVAC controls	No
Building 1 lab	170	10.1.70.0/24	Lab	Yes
Building 1 QC	180	10.1.80.0/24	Lab	Yes
Building 2 servers	211	10.2.11.0/25	Servers	No
Building 2 users	200	10.2.0.0/22	Users and lab	Yes
Building 2 HVAC	215	10.2.15.0/27	HVAC controls	No

Which of the following TTPs should the consultant recommend be addressed first?

- A. Lateral movement
- B. Privilege escalation
- C. Zone traversal
- D. Unauthorized execution

Answer: C

Explanation:

Theregulated lab environment (Yes)shares the same VLAN (10.2.0.0/22) withusers, creatingzone traversalrisk from unregulated zones to sensitive datanetworks.

This allows pivoting and lateral movement from non-regulated user devices into regulated lab environments

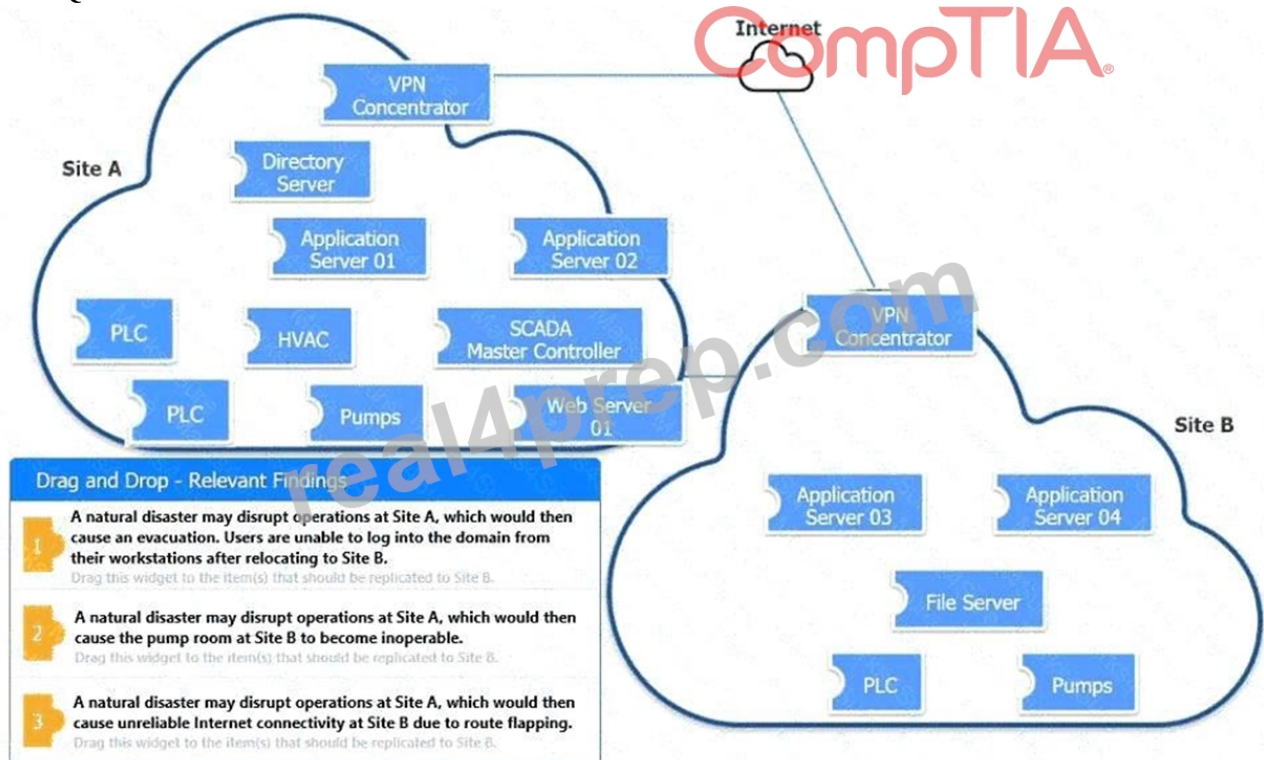
- a classiczone boundary violation.

Zone traversal should be mitigated with segmentation and firewall enforcement.

FromCAS-005, Domain 2: Risk Management and Mitigation Strategies:

"Zone traversal occurs when segmentation boundaries are misconfigured or merged, leading to regulatory and risk compliance failures." Reference:CAS-005 Study Guide, Chapter 8: Network Segmentation and Zoning, pg. 152-154

NEW QUESTION # 62



An organization is planning for disaster recovery and continuity of operations.

INSTRUCTIONS

Review the following scenarios and instructions. Match each relevant finding to the affected host.

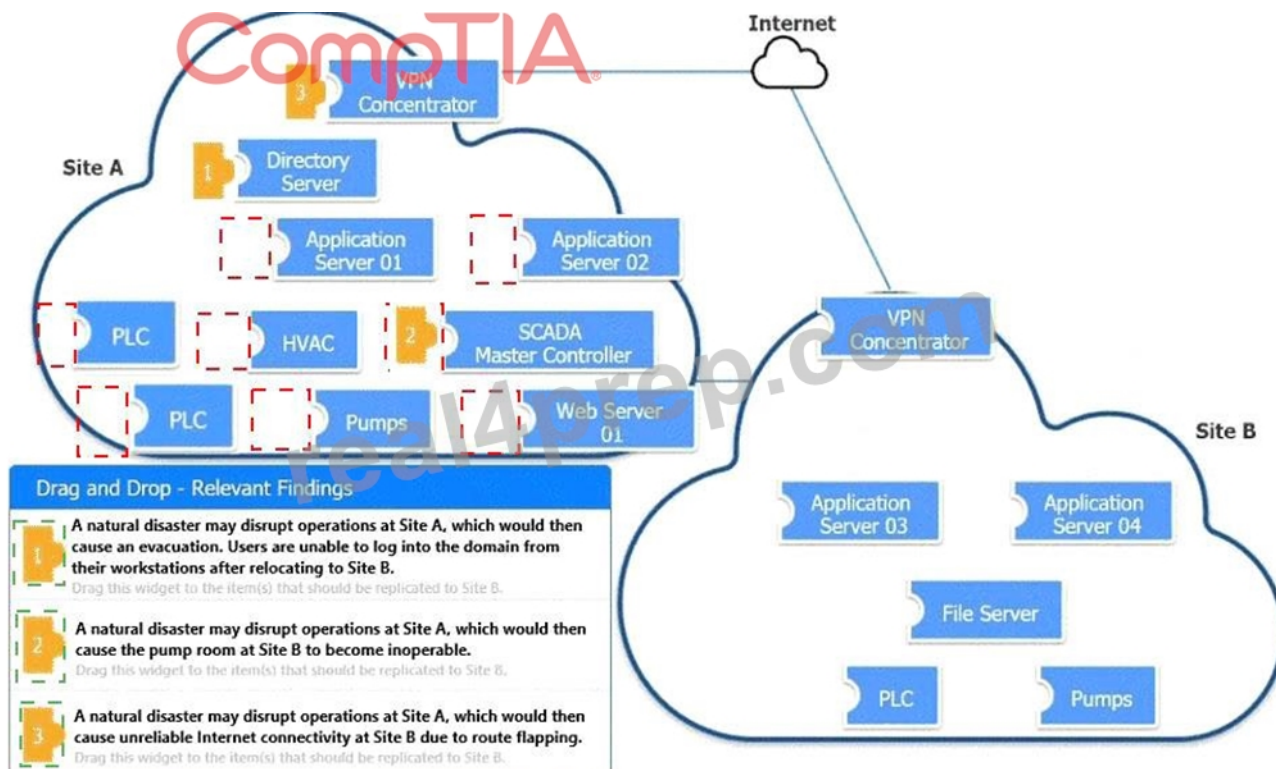
After associating scenario 3 with the appropriate host(s), click the host to select the appropriate corrective action for that finding.

Each finding may be used more than once.

If at any time you would like to bring back the initial state of the simulation, please click the Reset All button.

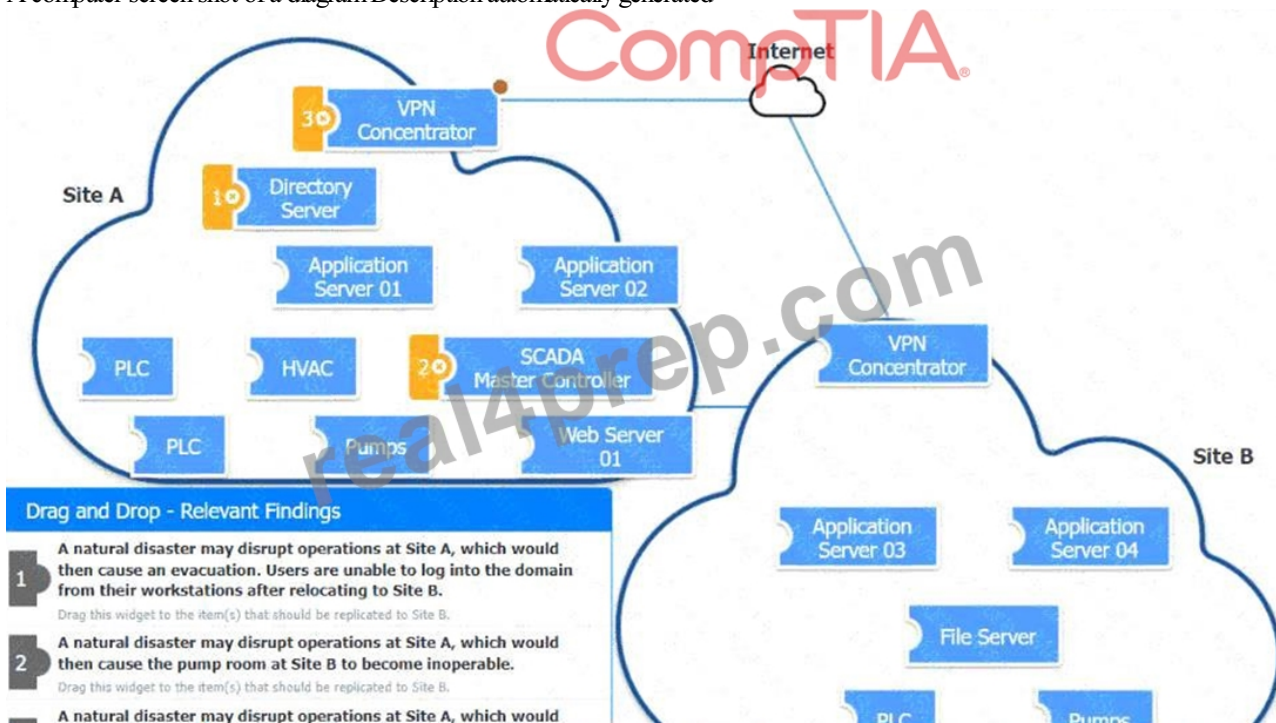
Answer:

Explanation:



Explanation:

A computer screen shot of a diagram Description automatically generated



A screenshot of a computer error Description automatically generated

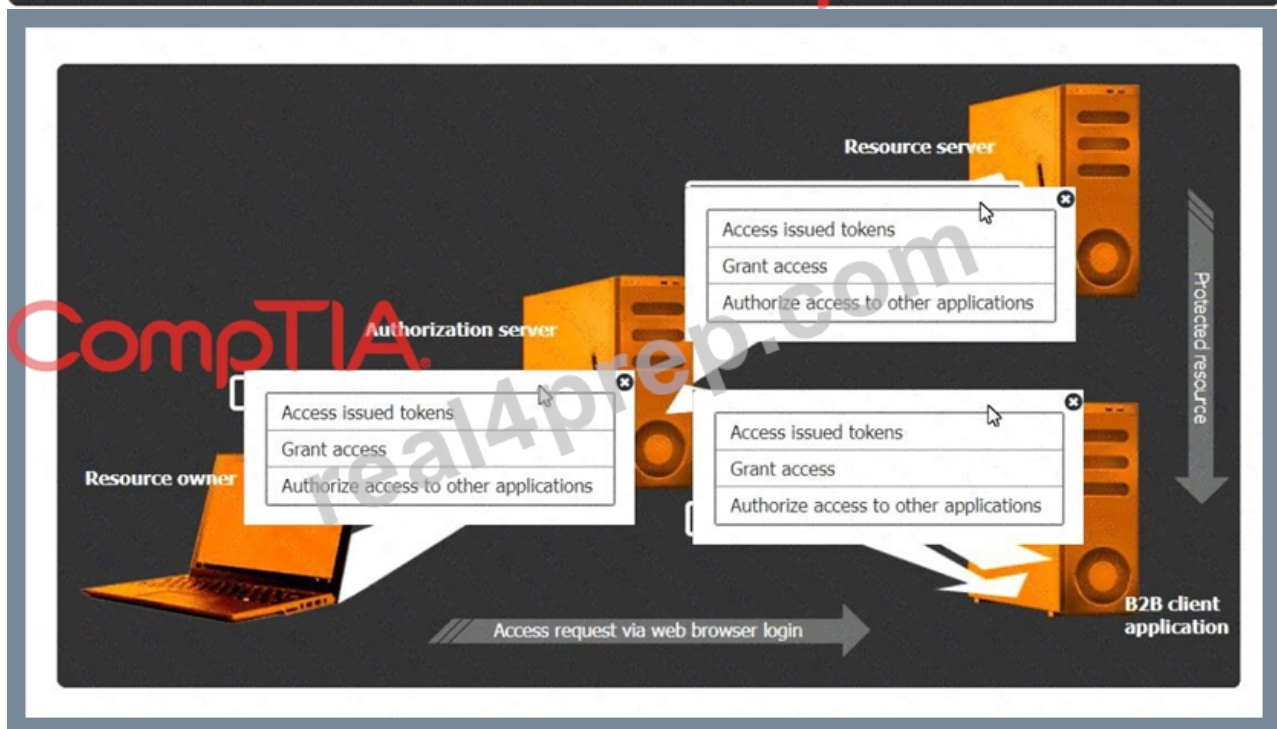
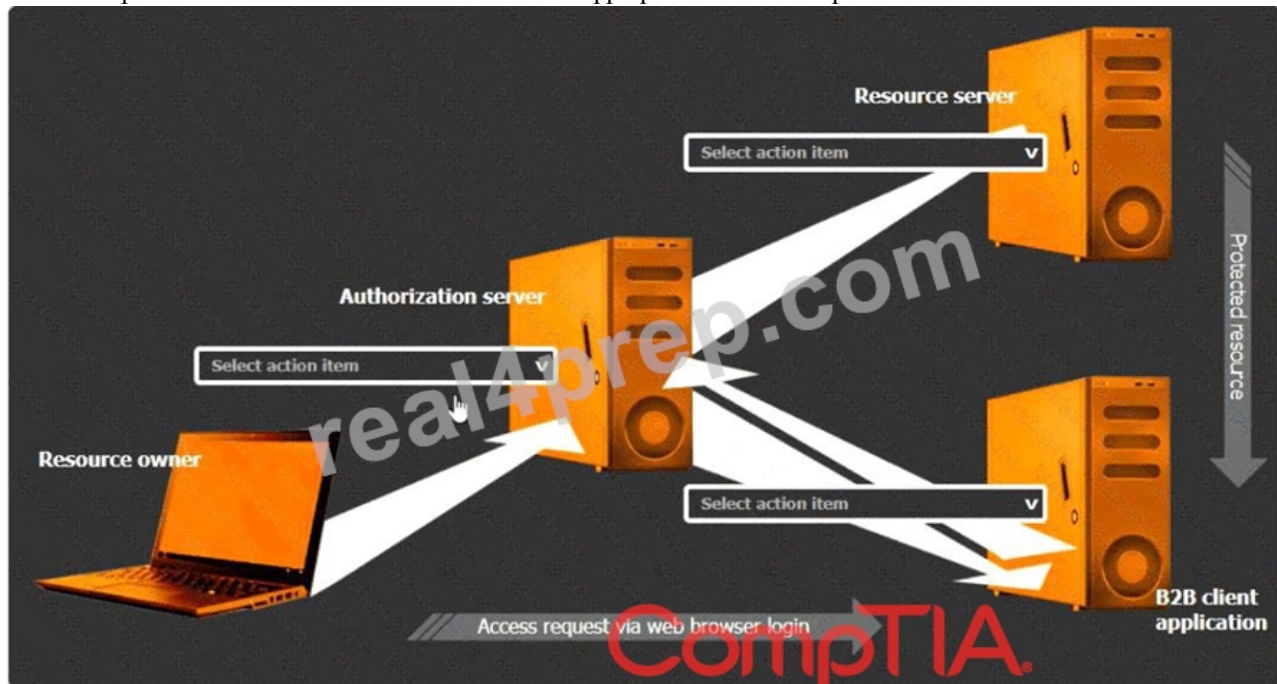


You are tasked with integrating a new B2B client application with an existing OAuth workflow that must meet the following requirements:

- . 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

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

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

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 # 64

A network engineer must ensure that always-on VPN access is enabled and restricted to company assets. Which of the following best describes what the engineer needs to do?"

- A. Modify signing certificates in order to support IKE version 2
- B. Add the VPN hostname as a SAN entry on the root certificate
- **C. Generate device certificates using the specific template settings needed**
- D. Create a wildcard certificate for connections from public networks

Answer: C

Explanation:

To ensure always-on VPN access is enabled and restricted to company assets, the network engineer needs to generate device certificates using the specific template settings required for the company's VPN solution.

These certificates ensure that only authorized devices can establish a VPN connection.

Why Device Certificates are Necessary:

* Authentication: Device certificates authenticate company assets, ensuring that only authorized devices can access the VPN.

* Security: Certificates provide a higher level of security compared to username and password combinations, reducing the risk of unauthorized access.

* Compliance: Certificates help in meeting security policies and compliance requirements by ensuring that only managed devices can

connect to the corporate network.

Other options do not provide the same level of control and security for always-on VPN access:

* B. Modify signing certificates for IKE version 2: While important for VPN protocols, it does not address device-specific authentication.

* C. Create a wildcard certificate: This is not suitable for device-specific authentication and could introduce security risks.

* D. Add the VPN hostname as a SAN entry: This is more related to certificate management and does not ensure device-specific authentication.

References:

* CompTIA SecurityX Study Guide

* "Device Certificates for VPN Access," Cisco Documentation

* NIST Special Publication 800-77, "Guide to IPsec VPNs"

NEW QUESTION # 65

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