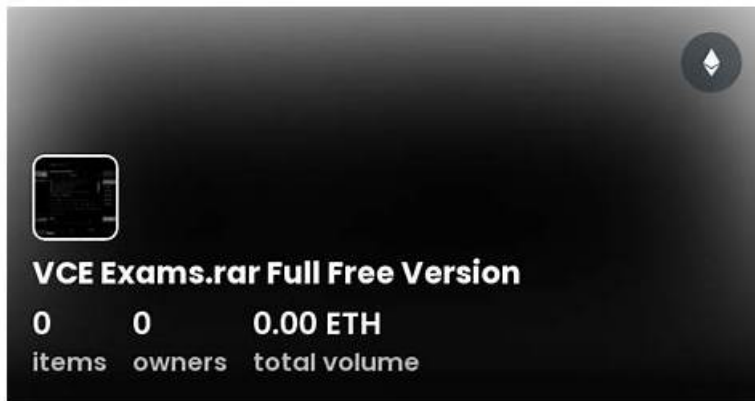


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Cisco 300-745 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none">Secure Infrastructure: Covers selecting security approaches for endpoints, identities, email, and modern environments like hybrid work, IoT, SaaS, and multi-cloud. Includes choosing VPN tunneling solutions, securing management planes, and selecting the appropriate firewall architecture based on business needs.
Topic 2	<ul style="list-style-type: none">Artificial Intelligence, Automation, and DevSecOps: Explores AI's role in securing network infrastructure, selecting tools for automated security architectures such as SOAR, IaC, and API tooling, and integrating security into DevSecOps workflows and pipelines to minimize deployment risk.
Topic 3	<ul style="list-style-type: none">Applications: Focuses on selecting security solutions to protect applications and designing secure architectures for cloud-native, containerized, and serverless environments using segmentation. Also addresses security design impacts of emerging technologies like AI, ML, and quantum computing.
Topic 4	<ul style="list-style-type: none">Risk, Events, and Requirements: Covers SOC incident handling and response tools, modifying security designs to mitigate or respond to incidents, and applying frameworks like MITRE CAPEC, NIST SP 800-37, and SAFE. Includes matching regulatory and compliance requirements to business scenarios.

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Cisco Designing Cisco Security Infrastructure Sample Questions (Q68-Q73):

NEW QUESTION # 68

Which tool is used by a SOC analyst to quarantine an endpoint?

- A. load balancer
- B. flow collector
- C. syslog
- **D. Cisco XDR**

Answer: D

Explanation:

In the event of a confirmed compromise, a SOC analyst must act quickly to prevent lateral movement. Cisco XDR (Extended Detection and Response) is the integrated security platform designed to provide cross-layered detection and automated response actions across the network, endpoint, and cloud. One of the most critical response actions within XDR is the ability to quarantine or isolate an endpoint.

Cisco XDR integrates with endpoint security agents (like Cisco Secure Client) and network infrastructure (like Cisco ISE). From a single interface, an analyst can trigger a "Host Isolation" command. This command instructs the endpoint agent to block all network traffic except for communication with the security console, effectively putting the device in digital quarantine. This is much faster and more effective than manually tracking down the device. A flow collector (Option A) and syslog (Option B) are diagnostic tools used for visibility and logging; they cannot take active enforcement actions. A load balancer (Option C) manages traffic distribution for applications and is irrelevant to endpoint containment. Cisco XDR fulfills the SDSI objective of "Securing Infrastructure through Automation," allowing SOC teams to mitigate threats at scale through coordinated response workflows.

NEW QUESTION # 69

A video game company identified a potential threat of a SYN flood attack, which could disrupt the online gaming services and impact user experience. The attack can overwhelm network resources by exploiting the TCP handshake process, leading to server unavailability and degraded performance. To safeguard the company's infrastructure and ensure uninterrupted service, it is essential to enhance the security measures in place. The company must implement a solution that manages and mitigates the risk of such network-based attacks. Which security product must be implemented to mitigate similar risks?

- A. Cisco Secure Endpoint
- B. Cisco Umbrella
- C. Cisco Web Security Appliance
- **D. Cisco Secure Firewall**

Answer: D

Explanation:

A SYN flood attack is a type of DoS/DDoS attack targeting the TCP handshake process. The correct mitigation is deploying a Cisco Secure Firewall, which includes advanced intrusion prevention, SYN flood protection, and traffic management capabilities to prevent resource exhaustion and keep services available.

NEW QUESTION # 70

Which function does a DLP system perform when protecting application data?

- **A. Enforces policy compliance by inspecting data in transit**
- B. Provides segmentation using VLANs
- C. Inspects routing tables
- D. Redirects packets to edge firewalls

Answer: A

Explanation:

A Data Loss Prevention (DLP) system inspects data in transit (and at rest or in use) to ensure sensitive information is handled according to security policies.

NEW QUESTION # 71

A telecommunications company recently introduced a hybrid working model. Based on the new policy, employees can work remotely for 2 days per week if corporate equipment is used. The IT department is preparing corporate laptops to support users during the remote working days. Which solution must the IT department implement that provides secure connectivity to corporate resources and protects sensitive corporate data even if a laptop is stolen?

- A. Umbrella
- **B. Secure Client**
- C. ISE Posture
- D. Cisco Duo

Answer: B

Explanation:

The Cisco Secure Client (formerly AnyConnect) is the comprehensive solution designed to handle the complexities of a hybrid workforce. To meet the company's requirements, Secure Client provides a secure VPN tunnel (SSL or IPsec) that ensures all traffic between the remote laptop and corporate resources is encrypted and authenticated.

Critically, for the scenario where a laptop is stolen, Secure Client integrates with various endpoint security modules. While it primarily handles secure connectivity, it is the platform that hosts features like Always-On VPN and management of disk encryption status. According to Cisco Security Infrastructure design principles, Secure Client acts as the unified agent on the endpoint that maintains the security posture and connectivity regardless of the user's location.

While Cisco Duo (Option B) provides essential Multi-Factor Authentication (MFA) to verify the user's identity, it does not provide the encrypted tunnel for data transit. ISE Posture (Option C) is a feature (often delivered via Secure Client) that checks the health of the device but doesn't provide the connectivity itself.

Umbrella (Option D) protects the user from malicious sites and provides a roaming client for DNS/web security, but it does not replace the requirement for a secure tunnel to private corporate resources. Therefore, Secure Client is the holistic solution that bridges the gap between the remote user and the corporate data center while ensuring that the device remains under the organization's security umbrella.

NEW QUESTION # 72

A global hotel chain is using Cisco ISE and Cisco switches to manage the network. The hotel company wants to enhance network security by segmenting users and endpoints. The company must ensure that devices within the same VLAN cannot communicate with each other. The goal is to prevent cross-communication without the use of dynamic access control lists. Which action must be taken using Cisco ISE to meet the requirement?

- A. Enable identity groups.
- **B. Configure TrustSec.**
- C. Implement device posturing.
- D. Set up endpoint profiling.

Answer: B

Explanation:

Cisco TrustSec is a next-generation security architecture that provides software-defined segmentation to simplify the provisioning of network access control. In a hotel environment where guest privacy is paramount, TrustSec is the ideal solution to prevent "peer-to-peer" or cross-communication between devices located within the same VLAN. Traditional methods for this isolation, such as Private VLANs (PVLANS) or complex, manually managed Access Control Lists (ACLs), can be extremely difficult to maintain at scale across a global infrastructure.

TrustSec replaces these IP-based or VLAN-based restrictions with Scalable Group Tags (SGTs). When a device connects to the network, Cisco Identity Services Engine (ISE) authenticates the endpoint and assigns it a specific SGT based on its role, identity, or security posture. The network infrastructure (switches) then enforces policy based on these tags. To meet the requirement of preventing communication between devices in the same VLAN without using dynamic ACLs (dACLs), ISE can be configured to assign the same SGT to guest devices and then apply a Security Group ACL (SGACL) that denies traffic where both the source and destination tags are identical. This "intra-SGT" isolation effectively blocks devices from communicating with their neighbors on the same local segment. This approach aligns with the Cisco SAFE architecture by providing granular, identity-aware segmentation that is topology-independent, allowing the hotel chain to maintain a simplified network structure while ensuring robust client security.

NEW QUESTION # 73

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