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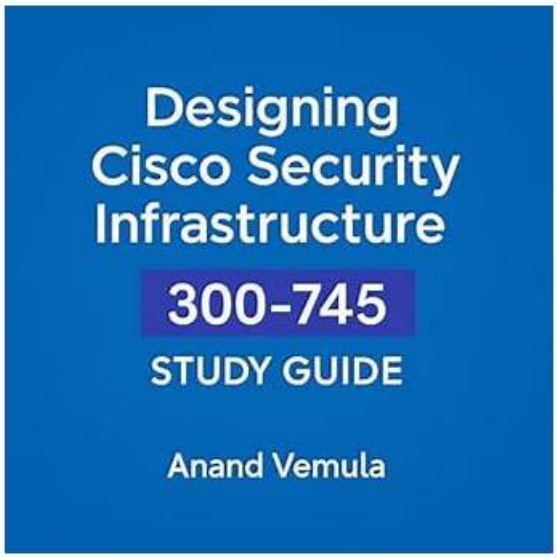


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## Cisco 300-745 Exam Syllabus Topics:

| Topic | Details |
|---|---|
| Topic 1 | • Secure Infrastructure: Covers selecting security approaches for endpoints, identities, email, and modern environments like hybrid work, IoT, SaaS, and multi-cloud. Includes choosing VPN<br>• tunneling solutions, securing management planes, and selecting the appropriate firewall architecture based on business needs. |
| Topic 2 | • 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. |
| Topic 3 | • 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 | • 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. |

**>> Answers 300-745 Real Questions <<**

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# Cisco Designing Cisco Security Infrastructure Sample Questions (Q65-Q70):

**NEW QUESTION # 65**
A construction company recently introduced a BYOD policy, where contractors can bring personal devices and connect to the wireless network. The network engineer configured a Wi-Fi network with a guest splash page to provide internet access only. Although the policy was limited to wireless devices, contractors started bringing devices that needed wired connections without authorization and connecting to the network. The network team suggested shutting down ports where unauthorized devices are connected. Which technology must be implemented to ensure that wired and wireless devices are granted network access only after successful authentication?

- A. private VLANs
- B. VACLs
- C. VxLANs
- D. 802.1x

**Answer: D**

Explanation:
To secure both wired and wireless access points against unauthorized devices, the industry-standard framework isIEEE 802.1x. This technology provides port-based network access control (PNAC), ensuring that no traffic-wired or wireless-is forwarded by the switch or access point until the device or user has been successfully authenticated by a central authority, typically a RADIUS server likeCisco Identity Services Engine (ISE).
In an 802.1x architecture, the device (Supplicant) must provide valid credentials or certificates to the switch /AP (Authenticator). The Authenticator then communicates with the Authentication Server to verify the identity. If authentication fails, the port remains in a "closed" state, effectively preventing the unauthorized "rogue" wired connections mentioned in the scenario. This approach is far more scalable and dynamic than manually shutting down ports or usingVACLs(Option C), which are static filters based on IP or MAC addresses.VxLANs(Option A) are used for network virtualization and overlay tunneling, whilePrivate VLANs(Option B) provide Layer 2 isolation within a subnet but do not verify identity. By implementing 802.1x, the construction company establishes a robust "gatekeeper" at the hardware level, satisfying the Cisco SDSI objective of securing the network edge through identity-based access control for a diverse set of devices.
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**NEW QUESTION # 66**
When designing security for applications distributed across multiple cloud providers, what is a key consideration?

- A. MPLS cloud backbone routing
- B. High-performance DHCP services
- C. Local proxy deployment
- D. Consistent identity and access policies

**Answer: D**

Explanation:
Consistent identity and access management policies across cloud providers ensure uniform security controls and simplify governance in multi-cloud environments.

**NEW QUESTION # 67**
An agricultural company wants to enhance the cybersecurity posture by implementing a defense- in-depth strategy to protect against polymorphic malware threats. Currently, the company's security infrastructure relies solely on a stateful traditional edge firewall that does not provide adequate protection against malware variants. Which technology must be added to the company's security architecture to achieve the goal?

- A. heuristics-based IPS
- B. physical security control
- C. network performance monitor
- D. web application firewall

**Answer: A**

Explanation:
A heuristics-based Intrusion Prevention System (IPS) analyzes traffic behavior and patterns, allowing it to detect and block polymorphic malware that constantly changes its signature to evade traditional defenses. Adding this technology strengthens the company's defense-in-depth strategy beyond the limitations of a stateful firewall.

**NEW QUESTION # 68**
A software development company uses multiple cloud providers to host the applications. The company is designing a scalable firewall solution that must meet the requirements:
- Consistent security policies across multiple cloud environments.
- Centralized visibility and management.
- Scalability to accommodate different cloud platforms.
Which type of firewall meets the requirements?

- A. host-based firewall
- B. zone-based firewall
- C. distributed firewall
- D. traditional firewall

**Answer: C**

Explanation:
A distributed firewall is designed for multi-cloud and hybrid environments. It ensures consistent security policies across multiple platforms, offers centralized visibility and management, and scales seamlessly with workloads across different cloud providers. This directly meets the requirements of the scenario, unlike traditional or host-based solutions that lack centralized scalability across multiple clouds.

**NEW QUESTION # 69**
A restaurant distribution center recently suffered a password spray attack targeting the Cisco Secure Firepower Threat Defense VPN headend. The attack attempts to gain unauthorized access by trying common passwords across many accounts. The attack poses a significant security threat to the organization's remote access infrastructure. To enhance the security of VPN setup and minimize the risk of similar attacks in the future, the IT security team must implement effective mitigation measures. Which technique effectively reduces the risk of this type of attack?

- A. Enable AAA authentication for the DefaultWEBVPN and DefaultRAGroup Connection Profiles.
- B. Disable group aliases in the connection profiles.
- C. Change the AAA authentication method from RADIUS to TACACS+.
- D. Implement an access list to block addresses from the previous password spray attack.

**Answer: A**

Explanation:
Enabling AAA authentication on the default connection profiles ensures that all VPN access attempts must go through strong authentication. This directly mitigates password spray attacks by enforcing centralized authentication controls, enabling account lockout, and supporting additional protections such as multifactor authentication.

**NEW QUESTION # 70**

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