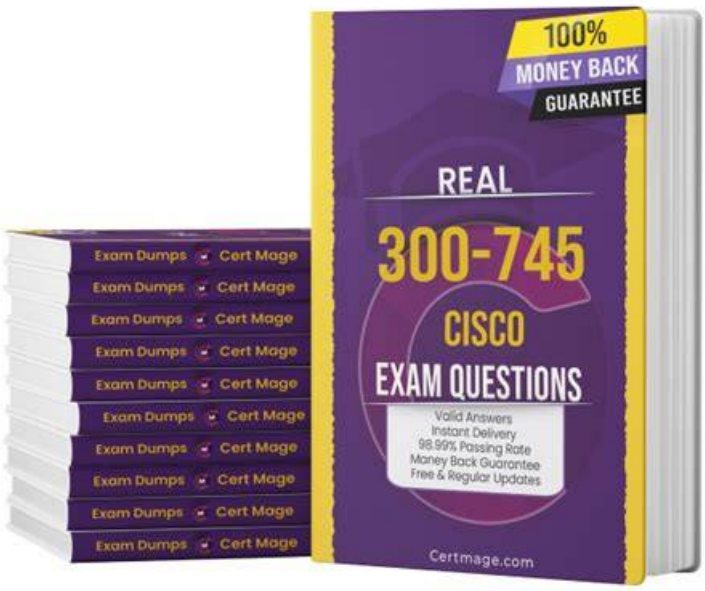
Real 300-745 Question, Mock 300-745 Exam



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This Cisco 300-745 exam preparation material is important because it will help you cover each topic and understand it well. You cannot pass the 300-745 exam if you do not have real 300-745 exam questions. It is the foremost thing that everyone should have to nail the 300-745 Exam. The 300-745 practice test material of Actualtests4sure is available in web-based practice tests, desktop practice exam software, and PDF.

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 • tunneling solutions, securing management planes, and selecting the appropriate firewall architecture based on business needs.
Topic 2	• 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	• 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 4	• 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.

>> Real 300-745 Question <<

Quiz 2026 Marvelous Cisco 300-745: Real Designing Cisco Security Infrastructure Question

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Cisco Designing Cisco Security Infrastructure Sample Questions (Q45-Q50):

NEW QUESTION # 45
After a recent security breach, a financial company is reassessing their overall security posture and strategy to better protect sensitive data and resources. The company already deployed on-premises next-generation firewalls at the network edge for each branch location. Security measures must be enhanced at the endpoint level. The goal is to implement a solution that provides additional traffic filtering directly on endpoint devices, thereby offering another layer of defense against potential threats. Which technology must be implemented to meet the requirement?

- A. web application firewall
- B. traditional firewall
- C. host-based firewall
- D. distributed firewall

Answer: C

Explanation:
When moving security closer to the data, the endpoint becomes the final perimeter. Ahost-based firewallis a software component that runs directly on the endpoint's operating system (Windows, macOS, or Linux).
While the company already has Next-Generation Firewalls (NGFWs) at the network edge, those devices cannot protect endpoints from threats originating within the same local network segment (East-West traffic) or when the device is used outside the corporate office.
Implementing a host-based firewall provides a critical layer ofdefense-in-depth. It allows security administrators to enforce strict inbound and outbound traffic rules based on applications and services specific to that device. For example, it can prevent a compromised laptop from scanning other devices on a public Wi- Fi network. In the Cisco ecosystem, this is often achieved through theCisco Secure Client(AnyConnect) using theNetwork Visibility Module (NVM)or integrated endpoint security suites.
While aDistributed Firewall(Option C) is used for micro-segmentation within data centers/clouds and aWeb Application Firewall (WAF)(Option B) protects servers from web-based attacks, only a host-based firewall meets the requirement for traffic filtering directly on the diverse array of endpoint devices. This approach ensures that even if the network edge is bypassed, the individual host remains hardened against lateral movement and unauthorized communication.

NEW QUESTION # 46
Which design policy addresses harmful content creation by generative AI?

- A. quantum resistant encryption
- B. human in the loop
- C. retrieval augmented generation
- D. watermarking

Answer: D

Explanation:
Watermarking is a generative AI design policy that embeds hidden identifiers into AI-generated content. This helps address the risk of harmful content creation by enabling traceability and accountability, making it easier to detect and regulate malicious or misleading AI outputs.

NEW QUESTION # 47
A global energy company moved a monolithic application from the data center to public cloud. Over time, the company added many capabilities to the application, and it is now difficult for the application team to scale it.

The application owner decided to modernize the application by moving to a Kubernetes cluster. However, he wants to ensure that the new application architecture provides a container network interface that is scalable, offers options for cloud-native security, and helps with visibility and observability. Which solution must be used to accomplish the task?

- A. security group
- B. ENI
- C. Cilium
- D. ingress gateway

Answer: C

Explanation:
In the realm of modern application security and Kubernetes networking,Ciliumhas emerged as the industry- standardContainer Network Interface (CNI)that leverageseBPF (extended Berkeley Packet Filter) technology. For a global company modernizing a monolithic app into microservices, Cilium provides the required scalability and high-performance networking by operating directly within the Linux kernel.
Unlike traditionalSecurity Groups(Option A) which are often limited to IP-based rules at the cloud infrastructure level, orENIs(Option C) which are AWS-specific hardware interfaces, Cilium providesidentity- awaresecurity. It understands Kubernetes labels and metadata, allowing for granular Layer 7 policy enforcement. Furthermore, Cilium addresses the "visibility and observability" requirement through itsHubble component, which provides deep insights into network flows, application dependencies, and security events without the overhead of traditional sidecar proxies. AnIngress Gateway(Option D) manages external traffic entering the cluster but does not provide the comprehensive pod-to-pod networking, eBPF-based security, or internal observability that a CNI like Cilium offers. Designing with Cilium aligns with Cisco's focus on cloud- native security and the use of eBPF for distributed firewalling and telemetry in modern application environments.
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NEW QUESTION # 48
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 Web Security Appliance
- B. Cisco Secure Endpoint
- C. Cisco Secure Firewall
- D. Cisco Umbrella

Answer: C

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 # 49
Which design policy addresses harmful content creation by generative AI?

- A. quantum resistant encryption
- B. watermarking
- C. retrieval augmented generation
- D. human in the loop

Answer: D

Explanation:
The creation of harmful content (such as hate speech, misinformation, or malicious code) by generative AI models is a major concern in modern security design. The most effective design policy to mitigate this is the Human-in-the-loop (HITL)approach. This involves integrating human oversight and intervention at various stages of the AI's operation, particularly during the verification of the model's

output before it is published or acted upon.
According to Cisco SDSI objectives regarding AI security, HITL ensures that automated decisions are subject to ethical judgment and contextual awareness that AI currently lacks. Humans can provide "Reinforcement Learning from Human Feedback" (RLHF) to tune the model's safety filters, ensuring it refuses to generate toxic or prohibited content. WhileWatermarking(Option B) helps identify content as AI-generated after the fact, it does not prevent thecreationof harmful material.Retrieval Augmented Generation (RAG)(Option C) is a technique for grounding AI in specific data to reduce "hallucinations" but doesn't inherently filter for harmful intent.Quantum resistant encryption(Option A) is a cryptographic standard unrelated to content moderation. HITL remains the primary safeguard for ensuring AI outputs align with safety guidelines and organizational requirements.
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NEW QUESTION # 50
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