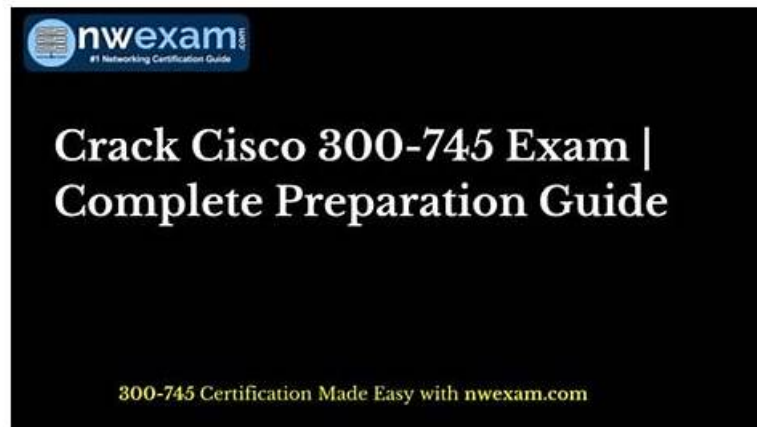


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Cisco Designing Cisco Security Infrastructure Sample Questions (Q46-Q51):

NEW QUESTION # 46

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

Answer: A

Explanation:

In the realm of modern application security and Kubernetes networking, Cilium has emerged as the industry-standard Container Network Interface (CNI) that leverages eBPF (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 traditional Security Groups (Option A) which are often limited to IP-based rules at the cloud infrastructure level, or ENIs (Option C) which are AWS-specific hardware interfaces, Cilium provides identity-aware security. It understands Kubernetes labels and metadata, allowing for granular Layer 7 policy enforcement. Furthermore, Cilium addresses the "visibility and observability" requirement through its Hubble component, which provides deep insights into network flows, application dependencies, and security events without the overhead of traditional sidecar proxies. An Ingress 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.

NEW QUESTION # 47

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

Answer: B

Explanation:

Cisco TrustSec provides software-defined segmentation by assigning Security Group Tags (SGTs) to users and devices. This allows policy enforcement that prevents communication between devices in the same VLAN without needing dynamic ACLs. It is the correct approach to achieve secure segmentation in this scenario.

NEW QUESTION # 48

Refer to the exhibit. In addition to SSL decryption, which firewall feature allows malware to be blocked?

The screenshot shows the configuration page for a rule named 'Default Inspect' in Cisco ISE. The rule is set to 'Mandatory' and 'Rule Enabled'. The action is 'Allow'. The intrusion policy is 'dCloud Intrusion...'. The selected sources are 'inside' (Routed Security Zone). The selected destinations and applications are 'outside' (Routed Security Zone) and 'encrypted visibility engine' (Application). The rule is configured to inspect traffic between the 'inside' zone and the 'outside' zone, specifically targeting the 'encrypted visibility engine' application. The interface includes search bars for Security Zone Objects, Applications, and Users, and buttons for 'Add Source Zone' and 'Add Destination Zone'. A large 'actual4labs.com' watermark is overlaid on the image.

- A. URL Filtering
- **B. File Inspection**
- C. SSL Offloading
- D. DLP

Answer: B

Explanation:

In the exhibit, SSL decryption is already enabled, which allows encrypted traffic to be inspected.

To block malware hidden within decrypted traffic, the next required feature is File Inspection. This function analyzes files passing through the firewall to detect and stop malicious content.

NEW QUESTION # 49

How is generative AI used in securing networks?

- A. to provide real-time load balancing
- **B. to detect unusual patterns in network traffic**
- C. to perform real-time audits to ensure regulatory compliance
- D. to improve resource consumption

Answer: B

Explanation:

The integration of Artificial Intelligence (AI) and Generative AI (GenAI) into network security is a pivotal component of the Cisco SDSI v1.0 blueprint. While traditional security mechanisms rely on deterministic rules and static signatures, GenAI leverages large-scale telemetry data to understand the baseline behavior of a specific network environment. By processing vast amounts of flow logs, packet metadata, and user activity, AI models can detect unusual patterns—often referred to as anomalies—that signify sophisticated threats such as zero-day exploits, lateral movement, or slow-and-low data exfiltration.

In a modern security architecture, GenAI enhances the "Visibility and Monitoring" domain by identifying deviations that would be invisible to human analysts. For instance, if an application suddenly changes its communication frequency or connects to a previously unknown internal segment, the AI can flag this as a potential compromise. Unlike Option A or B, which focus on operational efficiency and performance, or Option C, which is a reporting and compliance function, the use of AI for behavioral analytics directly strengthens the threat detection lifecycle. Cisco products like Secure Network Analytics (Stealthwatch) and Cognitive Intelligence use these AI capabilities to transition from reactive defense to a proactive posture, reducing the window of opportunity for attackers and aligning with the Cisco SAFE principle of continuous monitoring and pervasive visibility.

NEW QUESTION # 50

A global marketing firm, based in California with customers on every continent, suffered a data breach that exposed employee and customer PII. Which regulations is the company in danger of violating?

- A. ISO27001
- B. FedRamp
- C. ISO SP800-53
- **D. GDPR**

Answer: D

NEW QUESTION # 51

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