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100% Pass Quiz 2026 Cisco 300-745: Designing Cisco Security Infrastructure Updated Actual Exam Dumps

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Cisco Designing Cisco Security Infrastructure Sample Questions (Q59-Q64):

NEW QUESTION # 59

An IT company experienced the spread of malicious content between user endpoints, which impacted business critical resources. The company wants to implement a solution to control communication between individual endpoints on the network. Which approach achieves the goal?

- A. profiling

- B. posture
- C. RADIUS
- **D. TrustSec**

Answer: D

Explanation:

The spread of malicious content between endpoints is a classic case of lateral movement. To control and restrict communication between individual endpoints—regardless of their physical location or IP address—Cisco TrustSec is the recommended architectural approach. TrustSec moves away from traditional, IP-based Access Control Lists (ACLs), which are difficult to manage and scale, and instead uses Scalable Group Tags (SGTs).

With TrustSec, every endpoint is assigned an SGT based on its role or security context (e.g., "Employee," "Contractor," or "HR"). Security policies are then defined in a centralized matrix (the egress policy matrix) that dictates which SGTs can talk to one another. For example, a policy can be set so that endpoints in the "Developer" group cannot communicate directly with endpoints in the "Sales" group, effectively preventing malware from hopping between machines. While RADIUS (Option A) is the protocol used for authentication, it does not perform the segmentation itself. Posture (Option C) checks the health of the device, and Profiling (Option D) identifies what the device is, but neither provides the policy-based traffic control of TrustSec. By implementing TrustSec, the company achieves micro-segmentation, significantly reducing the internal attack surface and containing potential breaches within a single group, which is a core goal of modern secure infrastructure design.

NEW QUESTION # 60

An IT company experienced the spread of malicious content between user endpoints, which impacted business critical resources. The company wants to implement a solution to control communication between individual endpoints on the network. Which approach achieves the goal?

- A. profiling
- B. posture
- C. RADIUS
- **D. TrustSec**

Answer: D

Explanation:

Cisco TrustSec enables software-defined segmentation by assigning Security Group Tags (SGTs) to endpoints and enforcing communication policies. This allows granular control of traffic between individual endpoints, preventing the spread of malicious content across the network.

NEW QUESTION # 61

Which tool must be used to prioritize incidents by a SOC?

- A. CloudWatch
- B. endpoint protection platform
- C. endpoint detection and response
- **D. SIEM**

Answer: D

Explanation:

A SIEM (Security Information and Event Management) tool collects and correlates security logs from across the enterprise, then applies analytics to prioritize incidents for SOC analysts. This enables efficient detection and response to the most critical threats.

NEW QUESTION # 62

A software development company uses multiple cloud providers to host 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. distributed firewall**
- B. host-based firewall
- C. traditional firewall
- D. zone-based firewall

Answer: A

Explanation:

In a multi-cloud architecture, traditional perimeter-based firewalls often create "chokepoints" and fail to provide the granularity needed for east-west traffic between microservices across different providers. A distributed firewall is the architectural solution designed to meet these modern requirements. Unlike a centralized appliance, a distributed firewall is implemented as a software-defined layer that resides close to the workloads—often within the hypervisor or as part of a service mesh.

According to Cisco Security Infrastructure objectives, a distributed firewall allows for centralized management of a unified policy that is pushed out to all enforcement points, regardless of whether the workload is in AWS, Azure, or an on-premises data center. This ensures consistent security policies across the entire footprint. Because the enforcement is decentralized, the solution scales automatically as new cloud platforms or workloads are added. While a Traditional Firewall (Option A) lacks the multi-cloud agility, a Zone-based Firewall (Option B) is typically tied to specific physical or logical interfaces on a router, and a Host-based Firewall (Option D) is managed at the individual OS level, which becomes difficult to coordinate centrally at scale. The distributed firewall model aligns with the Cisco SAFE architectural goal of pervasive security and simplified operations in highly dynamic, heterogeneous cloud environments.

NEW QUESTION # 63

A security engineer on an application design team must choose a framework of attack patterns to evaluate during threat modeling. Which framework provides the common set of attacks?

- A. GDPR
- B. SOC2
- C. Cisco SAFE
- **D. MITRE CAPEC**

Answer: D

Explanation:

MITRE CAPEC (Common Attack Pattern Enumeration and Classification) provides a standardized catalog of attack patterns. It is specifically designed for use in threat modeling and application design, allowing security engineers to anticipate and evaluate common attacks.

NEW QUESTION # 64

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