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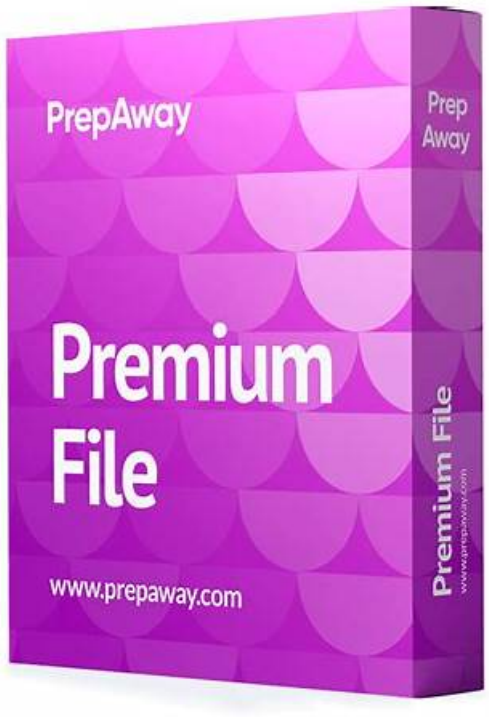

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Cisco 300-745 Exam Syllabus Topics:

Topic	Details
Topic 1	• 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 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	• 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 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.

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Cisco Designing Cisco Security Infrastructure Sample Questions (Q58-Q63):

NEW QUESTION # 58
A company has been facing recurring issues with SQL injection vulnerabilities affecting the products, leading to significant disruptions for customers. To address the security concerns proactively, the company wants to integrate a tool into the CI/CD pipeline. The tool must be capable of identifying vulnerabilities such as SQL injection early in the development process, which allows developers to rectify issues before the code is deployed. Which solution must be implemented to meet the requirement?

- A. Dynamic Application Security Testing tools, such as OWASP ZAP, Veracode, Burp Suite
- B. Static Application Security Testing tools, such as Checkmarx, Fortify, SonarQube
- C. workflow automation tools, such as GitHub Actions, Azure
- D. build log observability tools, such as Splunk, Datadog

Answer: B

Explanation:
Static Application Security Testing (SAST) tools analyze source code during the development and build phases of the CI/CD pipeline. They can identify coding flaws such as SQL injection vulnerabilities early, allowing developers to fix issues before deployment.

NEW QUESTION # 59
A pharmaceutical company needs a hub-and-spoke VPN topology. The design must be capable of building either partial or full mesh overlay networks. Which VPN solution must be implemented in the environment?

- A. DMVPN
- B. L2TP
- C. crypto maps
- D. SSL VPN

Answer: A

Explanation:
In the context of theDesigning Cisco Security Infrastructure (300-745 SDSI)blueprint,Dynamic Multipoint VPN (DMVPN)is the specialized architectural solution designed for scalable hub-and-spoke topologies that require the flexibility to evolve into partial or full mesh overlays. DMVPN leverages a combination of Multipoint GRE (mGRE) tunnels, Next Hop Resolution Protocol (NHRP), and IPsec encryption to create a dynamic environment.
The primary advantage of DMVPN is its ability to establish "on-demand" tunnels between spoke sites. In a traditional hub-and-spoke model, traffic between two spokes must transit the hub, which introduces latency and increases hub resource consumption. With DMVPN, spokes can use NHRP to discover the public IP addresses of other spokes and build direct tunnels between them automatically. This allows the pharmaceutical company to maintain a simple hub-and-spoke management model while benefiting from the performance of afull meshwhen traffic patterns demand it.
WhileSSL VPNs(Option D) andL2TP(Option B) are excellent for individual remote access, they are not designed for site-to-site mesh scalability.Crypto maps(Option C) represent the legacy method of building IPsec tunnels, which requires static, manual configuration of every peer relationship-making a full mesh practically impossible to manage at scale. DMVPN fulfills the Cisco SDSI objective of designing highly available and flexible secure infrastructure by automating the complexity of large-scale tunnel management.

NEW QUESTION # 60

Which generative AI impact is addressed by a human-in-the-loop design policy?

- A. scale changes
- B. deep fakes
- C. phishing
- D. AI hallucinations

Answer: D

Explanation:
A human-in-the-loop design policy ensures that humans validate or oversee AI-generated outputs, reducing the risk of AI hallucinations (false or misleading information generated by AI).
This provides accountability and accuracy in generative AI use.

NEW QUESTION # 61
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. posture
- B. profiling
- C. RADIUS
- D. TrustSec

Answer: D

Explanation:
The spread of malicious content between endpoints is a classic case oflateral movement. To control and restrict communication between individual endpoints-regardless of their physical location or IP address- Cisco TrustSecis the recommended architectural approach. TrustSec moves away from traditional, IP-based Access Control Lists (ACLs), which are difficult to manage and scale, and instead usesScalable 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. WhileRADIUS(Option A) is the protocol used for authentication, it does not perform the segmentation itself.Posture(Option C) checks the health of the device, andProfiling (Option D) identifies what the device is, but neither provides the policy-based traffic control of TrustSec. By implementing TrustSec, the company achievesmicro-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 # 62
A legal services company wants to prevent remote employees from accessing personal email and social media accounts while using corporate laptops. Which security solution enforces the policy?

- A. Cisco TrustSec
- B. Cisco Umbrella
- C. RADIUS server
- D. network monitoring tool

Answer: B

Explanation:
In the modern landscape of remote work, a legal services company must enforce acceptable use policies (AUP) regardless of where a corporate laptop is located.Cisco Umbrellais the ideal architectural solution for this requirement. Umbrella acts as a Secure Internet Gateway (SIG) that operates primarily at the DNS and web layer. When a remote employee attempts to access a personal email site or a social media platform, Umbrella intercepts the DNS request and checks it against the organization's defined security policy.
Cisco Umbrella provides granularContent Filteringcapabilities, allowing administrators to block entire categories of websites, such as

"Social Networking" or "Webmail," with a single click. This enforcement happens at the edge-before a connection is even established to the malicious or unauthorized site-making it highly efficient for remote users who may not be connected to the corporate VPN. WhileCisco TrustSec (Option A) andRADIUS(Option B) are powerful for internal network segmentation and authentication, they do not inherently provide the URL/domain-based categorization required to block specific web content for remote clients. Anetwork monitoring tool(Option D) provides visibility but lacks the active enforcement mechanism to block traffic. Therefore, Cisco Umbrella is the specified technology in the SDSI objectives for cloud-delivered web security and policy enforcement for a distributed workforce.
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NEW QUESTION # 63
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