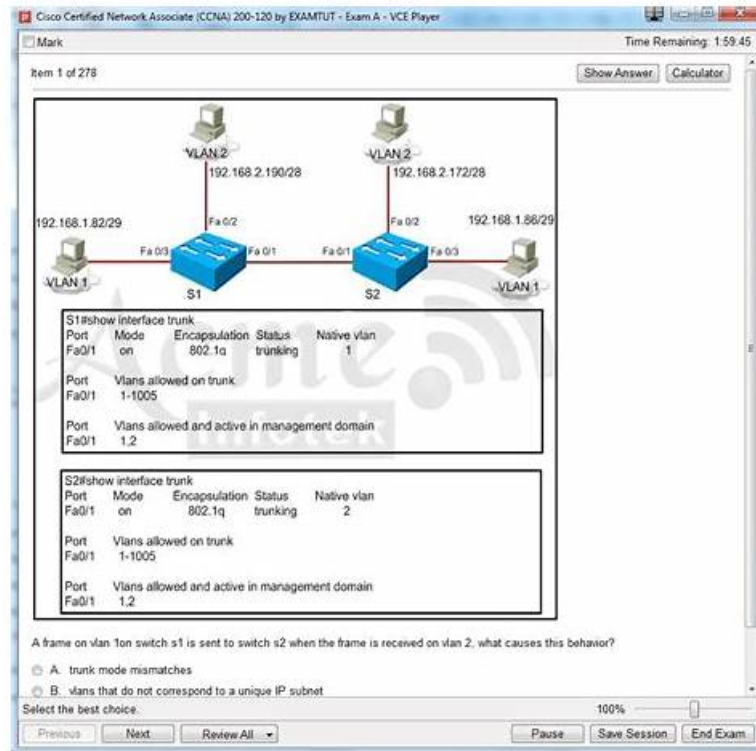


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Cisco 300-745 Exam Syllabus Topics:

Topic	Details

Topic 1	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • 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 3	<ul style="list-style-type: none"> • 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 4	<ul style="list-style-type: none"> • 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.

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

NEW QUESTION # 46

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

Answer: C

Explanation:

In the context of the Designing 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 a full mesh when traffic patterns demand it.

While SSL VPNs (Option D) and L2TP (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 # 47

Employees in a healthcare organization could not access their devices when they returned to work after the weekend. The security team discovered that a threat actor had encrypted the devices. Which security solution would mitigate the risk in future?

- A. network configuration management
- B. password policy enforcement
- C. data loss prevention
- D. endpoint detection and response

Answer: D

Explanation:

In the scenario described, the healthcare organization fell victim to a ransomware attack, where devices were encrypted to extort the organization. To mitigate such risks in the future, Endpoint Detection and Response (EDR) is the essential architectural component. According to the Cisco SDSI Secure Infrastructure domain, protecting endpoints requires more than just traditional antivirus; it necessitates a solution that provides deep visibility into file behavior and process execution.

A robust EDR solution, such as Cisco Secure Endpoint, continuously monitors all activity on the device.

When ransomware attempts to initiate its encryption process, the EDR can detect the malicious behavioral pattern in real-time. It can then take automated actions, such as isolating the infected host from the network and "stopping" the encryption process before it spreads. Furthermore, Cisco's EDR provides retrospective security, allowing administrators to see how the malware arrived and which other devices it touched. While Option A (Password Policies) helps prevent credential theft and Option C (DLP) prevents data theft, they do not stop the technical process of disk encryption. Only EDR provides the necessary detection and automated response capabilities to handle modern file-less and polymorphic malware threats effectively. This aligns with the Cisco SAFE goal of securing the endpoint layer against advanced persistent threats (APTs) and ransomware variants.

NEW QUESTION # 48

A developer company recently implemented a testing environment based on Linux operating system. The company needs a technology solution that produces tracing and filtering capabilities in the Linux kernel. Which technology meets these requirements without modifying the kernel source code?

- A. eBPF
- B. NGFW
- C. VPP
- D. distributed firewall

Answer: A

Explanation:

eBPF (extended Berkeley Packet Filter) allows tracing, filtering, and monitoring directly inside the Linux kernel without modifying the kernel source code. It provides deep visibility into system and application behavior, making it ideal for secure and efficient observability in a testing environment.

NEW QUESTION # 49

A developer company recently implemented a testing environment based on Linux operating system. The company needs a technology solution that produces tracing and filtering capabilities in the Linux kernel.

Which technology meets these requirements without modifying the kernel source code?

- A. eBPF
- B. NGFW
- C. VPP
- D. distributed firewall

Answer: A

Explanation:

In modern secure infrastructure design, especially within high-performance testing and developer environments, the ability to observe and filter traffic at a deep level is crucial. eBPF (extended Berkeley Packet Filter) is a revolutionary technology that allows developers to run sandboxed programs within the Linux kernel. The primary advantage of eBPF is that it enables sophisticated tracing, monitoring, and network filtering capabilities without the need to modify the underlying kernel source code or load intrusive kernel modules.

In the context of the Cisco SDSI objectives, eBPF is highlighted as a key component of distributed firewalling and cloud-native security architectures. It operates by attaching programs to various "hooks" in the kernel, such as network events, tracepoints, or system calls. When a packet enters the system or a specific event occurs, the eBPF program can inspect the context and make high-speed decisions on whether to allow, drop, or redirect traffic. This provides a much more efficient and flexible alternative to traditional technologies like IPTables. Because eBPF programs are verified for safety by a JIT compiler before being executed, they do not risk crashing the kernel, making them ideal for dynamic developer environments. Unlike Vector Packet Processing (VPP) (Option D), which moves packet processing into userspace, or standard Next-Generation Firewalls (NGFW) (Option C), which are typically separate appliances, eBPF provides "in-kernel" observability and enforcement that is programmable and highly scalable for microservices and containerized applications.

NEW QUESTION # 50

Which benefit does AI provide in network security?

- A. It identifies vulnerabilities associated with weak TLS algorithms.
- B. It speeds up network data transmission rates.
- C. It provides complete protection from DDoS attacks.
- D. It replaces comprehensive defense in depth.

Answer: A

Explanation:

According to the Cisco SDSI v1.0 objectives, Artificial Intelligence and Machine Learning (ML) provide significant benefits in automating the identification of complex security weaknesses. One of the primary benefits is the ability of AI to perform Encrypted Threat Analytics (ETA). AI models can analyze the metadata and initial handshake patterns of encrypted traffic-without needing to decrypt it-to identify vulnerabilities associated with weak TLS algorithms or outdated cipher suites.

By recognizing specific fingerprints in the TLS handshake, AI-driven tools can alert administrators to non-compliant encryption standards that might be susceptible to interception. While AI is a powerful force multiplier, it does not replace a comprehensive defense-in-depth strategy (Option B); rather, it enhances it. It does not directly speed up data transmission (Option A), as that is a function of hardware and bandwidth.

Furthermore, while AI helps mitigate DDoS attacks, it rarely provides "complete" protection (Option C) on its own, as DDoS mitigation requires a multi-layered approach involving massive bandwidth and specialized scrubbing. The ability to identify cryptographic weaknesses at scale is a core functional benefit of AI in modern security infrastructure, aligning with the Cisco goal of maintaining a hardened and compliant network posture through automated visibility.

NEW QUESTION # 51

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