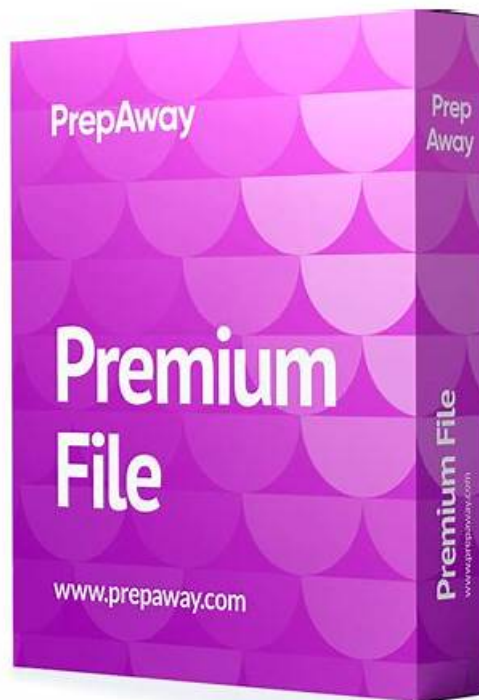


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Learning knowledge is not only to increase the knowledge reserve, but also to understand how to apply it, and to carry out the theories and principles that have been learned into the specific answer environment. Studying for attending Designing Cisco Security Infrastructure exam pays attention to the method. The good method often can bring the result with half the effort, therefore we in the examination time, and also should know some test-taking skill. The 300-745 Quiz guide on the basis of summarizing the past years, found that many of the questions, the answers have certain rules can be found, either subjective or objective questions, we can find in the corresponding module of similar things in common.

Cisco 300-745 Exam Syllabus Topics:

Topic	Details
Topic 1	<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 2	<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.
Topic 3	<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 4	<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 VPNtunneling solutions, securing management planes, and selecting the appropriate firewall architecture based on business needs.

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Cisco Designing Cisco Security Infrastructure Sample Questions (Q13-Q18):

NEW QUESTION # 13

What is a use for AI in securing network infrastructure?

- A. load balancing
- B. traffic shaping
- C. quality of service
- D. known day zero attack detection

Answer: D

Explanation:

AI enhances network security by detecting zero-day attacks through behavior analysis, anomaly detection, and pattern recognition. This allows threats to be identified and mitigated even before traditional signatures are available.

NEW QUESTION # 14

A construction company recently introduced a BYOD policy, where contractors can bring personal devices and connect to the wireless network. The network engineer configured a Wi-Fi network with a guest splash page to provide internet access only. Although the policy was limited to wireless devices, contractors started bringing devices that needed wired connections without authorization and connecting to the network. The network team suggested shutting down ports where unauthorized devices are connected. Which technology must be implemented to ensure that wired and wireless devices are granted network access only after successful authentication?

- A. VACLs
- B. VxLANs
- C. private VLANs
- D. 802.1x

Answer: D

Explanation:

802.1X provides port-based network access control, requiring devices (wired or wireless) to authenticate before gaining network access. This ensures that only authorized users and devices can connect, enforcing the BYOD policy and preventing unauthorized wired connections.

NEW QUESTION # 15

An agricultural company wants to enhance the cybersecurity posture by implementing a defense-in-depth strategy to protect against polymorphic malware threats. Currently, the company's security infrastructure relies solely on a stateful traditional edge firewall that does not provide adequate protection against malware variants. Which technology must be added to the company's security architecture to achieve the goal?

- A. network performance monitor
- B. heuristics-based IPS
- C. physical security control
- D. web application firewall

Answer: B

Explanation:

Polymorphic malware is particularly dangerous because it constantly changes its identifiable features (such as its file name or encryption keys) to evade traditional signature-based detection. A stateful traditional firewall is ineffective here as it primarily checks packet headers rather than inspecting the payload for malicious intent. To defend against these variants, a heuristics-based IPS (Intrusion Prevention System) is required.

Unlike traditional IPS systems that look for an exact match of a known threat "signature," heuristics-based systems look for suspicious characteristics or behaviors. For example, if a file attempts to modify system registries in a specific sequence or uses obfuscation techniques common to malware, the heuristics engine will flag and block it even if it has never seen that specific version of the malware before. This is a core component of Cisco Secure Firewall (NGFW). While a WAF (Option A) protects web applications and a Network Performance Monitor (Option C) provides visibility into traffic speeds, neither is designed to combat evolving malware. Adding a heuristics-based IPS provides the "deep packet inspection" layer necessary for a true defense-in-depth strategy, ensuring the agricultural company is protected against modern, evasive cyber threats.

NEW QUESTION # 16

A technology company recently onboarded a new customer in the medical space. The customer needs a solution to provide data integrity across remote sites. Which solution must be used to meet this requirement?

- A. preshared key
- B. authentication
- C. data masking
- D. hashing

Answer: D

Explanation:

Hashing ensures data integrity by generating a fixed-length value (hash) for data. When data is transmitted between remote sites, the hash can be recalculated and compared to verify that the data has not been altered in transit.

NEW QUESTION # 17

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 # 18

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