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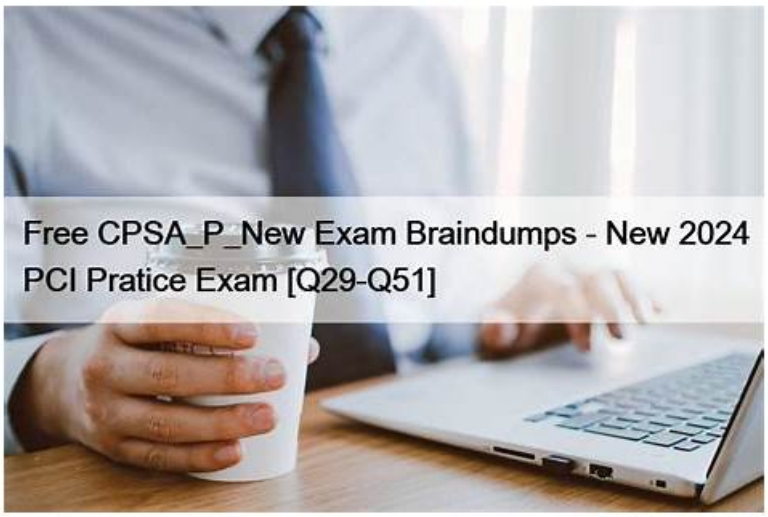

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Cisco 300-745 Exam Syllabus Topics:

Topic	Details
Topic 1	• 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 2	• 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 3	• 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	• 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.

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Cisco 300-745 Exam Questions - The Advantages of VCETorrent Preparation Material

To pass the Cisco 300-745 exam on the first try, candidates need Designing Cisco Security Infrastructure updated practice material. Preparing with real 300-745 exam questions is one of the finest strategies for cracking the exam in one go. Students who study with Cisco 300-745 Real Questions are more prepared for the exam, increasing their chances of succeeding. Finding original and latest

300-745 exam questions however, is a difficult process. Candidates require assistance finding the 300-745 updated questions.

Cisco Designing Cisco Security Infrastructure Sample Questions (Q45-Q50):

NEW QUESTION # 45
Which function does a DLP system perform when protecting application data?

- A. Enforces policy compliance by inspecting data in transit
- B. Redirects packets to edge firewalls
- C. Provides segmentation using VLANs
- D. Inspects routing tables

Answer: A

Explanation:
A Data Loss Prevention (DLP) system inspects data in transit (and at rest or in use) to ensure sensitive information is handled according to security policies.

NEW QUESTION # 46
After a recent security breach, a financial company is reassessing their overall security posture and strategy to better protect sensitive data and resources. The company already\ deployed on- premises next-generation firewalls at the network edge for each branch location. Security measures must be enhanced at the endpoint level. The goal is to implement a solution that provides additional traffic filtering directly on endpoint devices, thereby offering another layer of defense against potential threats. Which technology must be implemented to meet the requirement?

- A. distributed firewall
- B. traditional firewall
- C. host-based firewall
- D. web application firewall

Answer: C

Explanation:
A host-based firewall runs directly on endpoint devices, providing traffic filtering and protection at the endpoint level. This adds another layer of defense beyond the network edge firewalls, ensuring threats are mitigated closer to where sensitive data resides.

NEW QUESTION # 47
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. data masking
- B. authentication
- C. preshared key
- D. hashing

Answer: D

Explanation:
In the context of theCisco Security Infrastructure (300-745 SDSI)objectives, ensuringdata integrityis a fundamental requirement, particularly in the healthcare sector where the accuracy of medical records at remote sites is critical for patient safety.Hashingis the primary mathematical process used to verify that data has not been altered or tampered with during transit between locations. Hashing works by applying a cryptographic algorithm (such as SHA-256) to a data set to produce a fixed-size string of characters called a "hash" or "checksum." When data is sent from one remote site to another, the sender calculates a hash of the original data. Upon arrival, the receiving site recalculates the hash using the same algorithm. If the two hashes match exactly, the receiver is assured that the data is identical to the original and has maintained its integrity. Even a single-bit change in the original data would result in a completely different hash value.
WhileAuthentication(Option D) andPreshared Keys(Option C) are essential for verifying the identity of the sites and establishing secure tunnels (like IPsec VPNs), they do not, by themselves, provide the mathematical proof of content integrity.Data Masking(Option B) is a privacy technique used to hide sensitive information from unauthorized viewers, but it does not prevent or

detect data corruption or unauthorized modifications.
Therefore, hashing is the specified technical control for achieving verifiable data integrity across distributed infrastructures.

NEW QUESTION # 48
Which design policy addresses harmful content creation by generative AI?

- A. human in the loop
- B. watermarking
- C. quantum resistant encryption
- D. retrieval augmented generation

Answer: A

Explanation:
The creation of harmful content (such as hate speech, misinformation, or malicious code) by generative AI models is a major concern in modern security design. The most effective design policy to mitigate this is the Human-in-the-loop (HITL)approach. This involves integrating human oversight and intervention at various stages of the AI's operation, particularly during the verification of the model's output before it is published or acted upon.
According to Cisco SDSI objectives regarding AI security, HITL ensures that automated decisions are subject to ethical judgment and contextual awareness that AI currently lacks. Humans can provide "Reinforcement Learning from Human Feedback" (RLHF) to tune the model's safety filters, ensuring it refuses to generate toxic or prohibited content. WhileWatermarking(Option B) helps identify content as AI-generated after the fact, it does not prevent thecreationof harmful material.Retrieval Augmented Generation (RAG)(Option C) is a technique for grounding AI in specific data to reduce "hallucinations" but doesn't inherently filter for harmful intent.Quantum resistant encryption(Option A) is a cryptographic standard unrelated to content moderation. HITL remains the primary safeguard for ensuring AI outputs align with safety guidelines and organizational requirements.
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NEW QUESTION # 49
What is a use for AI in securing network infrastructure?

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

Answer: C

Explanation:
In the architecture of modern security, Artificial Intelligence (AI) and Machine Learning (ML) are leveraged to move beyond reactive, signature-based defenses. One of the most significant uses of AI in securing network infrastructure is the detection ofzero-day attacks(often referred to in exam contexts as "day zero" attacks). A zero-day attack exploits a vulnerability that is unknown to the software vendor or the public, meaning no signature exists for traditional firewalls or antivirus software to block it.
AI identifies these threats throughbehavioral analysisandanomaly detection. By establishing a highly granular baseline of "normal" network traffic patterns-including flow direction, packet size, inter-packet arrival times, and protocol behavior-AI models can detect subtle deviations that indicate a malicious exploit.
For example,Cisco Secure Network Analytics(formerly Stealthwatch) andEncrypted Threat Analytics (ETA)use ML to identify the cryptographic "fingerprints" of malware even within encrypted traffic, without the need for decryption. This allows the security infrastructure to identify and mitigate threats at the moment they appear, rather than waiting for a vendor to release a signature. While load balancing (Option B), traffic shaping (Option C), and Quality of Service (Option D) are critical for network performance and availability, they are traditional traffic engineering functions that do not inherently provide the advanced threat detection capabilities offered by AI-driven security models. Within the Cisco SDSI objectives, AI is positioned as the primary technology for achieving proactive visibility and reducing the "Mean Time to Detect" (MTTD) for previously unseen vulnerabilities.

NEW QUESTION # 50
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