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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	• 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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100% Pass Quiz 2026 Cisco 300-745: Designing Cisco Security Infrastructure Unparalleled Simulations Pdf

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Cisco Designing Cisco Security Infrastructure Sample Questions (Q42-Q47):

NEW QUESTION # 42
Refer to the exhibit.

A software developer noticed that the application source code had been found on the internet. To avoid such an incident from happening again, the developer applied a DLP policy to prevent from uploading source code into generative AI tool like ChatGPT. When testing the policy, the developer noticed that it is still possible for the source code to be uploaded. Which action must the developer take to prevent this issue?

- A. Enable the rule.
- B. Move the ChatGPT Source Code rule to the bottom.
- C. Modify the data classifications.
- D. Change the DLP action from Monitor to Block.

Answer: D

Explanation:
In the provided exhibit of theCisco Data Loss Prevention (DLP) Policyinterface (likely within Cisco Umbrella or a similar cloud security gateway), the reason for the policy's failure to stop the upload is clearly visible in the "Action" column. The rule named"ChatGPT Source Code"is currently configured with the action set toMonitor.
According to theCisco SDSI v1.0objectives regarding application and data security, theMonitoraction is designed for visibility and auditing. It allows the traffic to pass through while generating a log entry for security analysts to review. This is often used during an initial "discovery" phase to understand how data is moving without disrupting business processes. However, to fulfill the requirement ofpreventingthe unauthorized upload of sensitive data-such as application source code-the policy must be enforcement- centric.
By selectingOption D, the developer changes the action from "Monitor" toBlock. In "Block" mode, the DLP engine will actively intercept the web request to ChatGPT, inspect the content for "Source Code" classifications, and drop the connection if a match is found, thereby preventing the data from leaving the corporate environment. While moving rules (Option B) can resolve conflicts if a "Block" rule is superseded by an "Allow" rule higher in the list, the primary issue here is the non-restrictive action of the specific rule itself. Modifying data classifications (Option C) is unnecessary if the engine is already correctly identifying the source code, as evidenced by the successful monitoring logs mentioned in the scenario. Changing the action to Block is the definitive step to ensure data integrity and prevent intellectual property theft.

NEW QUESTION # 43
A financial company is focused on proactively protecting sensitive data stored on the devices. The company recognizes the potential risks associated with lost or stolen devices and they want a solution to ensure that if unauthorized user access the device, the data it contains is not accessible or misused. The solution includes implementing a strategy that renders data unreadable without user authentication. Which solution meets the requirement?

- A. Implement data encryption on disk.
- B. Apply GPS tracking.
- C. Install Kensington Lock.
- D. Use a BIOS password.

Answer: A

Explanation:
For a financial company, protecting "data at rest" is a critical requirement of the Cisco Security Infrastructure blueprint. While physical security and BIOS-level protections have their place,Data encryption on disk(such as BitLocker, FileVault, or hardware-encrypted drives) is the only solution that fulfills the requirement of rendering the actual data unreadable if the device is lost or stolen. Disk encryption uses cryptographic algorithms to transform readable data into ciphertext. Without the correct decryption key-which is typically released only after successful user authentication-the data remains a meaningless string of characters even if the hard drive is removed and connected to a different machine. A Kensington Lock(Option A) is a physical deterrent to prevent theft but does not protect the data if the lock is cut or the device is stolen. ABIOS password(Option B) can prevent the OS from booting but does not stop an attacker from reading the data directly from the storage media.GPS tracking(Option D) helps in recovery but does not prevent unauthorized data access in the interim. Implementing full-disk encryption aligns with the Cisco SAFEprinciple of pervasive data protection and ensures compliance with financial regulations regarding the safeguarding of sensitive client information on mobile endpoints.
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NEW QUESTION # 44
Network administrators at a medical facility cannot log in to network devices because of excessive resource consumption and high CPU utilization. The situation has led to delays in routine maintenance and troubleshooting, which affects overall network performance. An engineer must optimize the handling of traffic to reduce the impact and maintain consistent access and operational efficiency. Which approach must be implemented to meet the requirement?

- A. SNMP
- B. Control Plane Policing
- C. RBAC
- D. AAA

Answer: B

Explanation:
The scenario described-where high CPU utilization prevents administrators from accessing device management interfaces-is a classic indication that the device'sControl Planeis being overwhelmed by malicious or malformed traffic (such as a DoS attack or a routing

loop). To protect the "brains" of the network device,Control Plane Policing (CoPP)must be implemented.
CoPP allows an engineer to define filter and rate-limit policies specifically for traffic destined for the CPU.
By categorizing traffic into different classes (e.g., routing protocols, management traffic like SSH, and "catch- all" untrusted traffic), CoPP ensures that critical management and control traffic is prioritized while excessive or suspicious traffic is dropped before it can impact the device's performance. This maintainsoperational efficiencyeven during a traffic spike or attack. WhileAAA(Option B) handles authentication andRBAC (Option D) manages permissions once a user is logged in, neither can prevent the CPU exhaustion that blocks the login attempt in the first place.SNMP(Option C) is used for monitoring but does not provide active traffic policing.
Within the Cisco SDSI framework, CoPP is a fundamental "Self-Defending Network" feature required to ensure the availability and resilience of the core infrastructure.
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NEW QUESTION # 45
A developer company recently made a contract with new customer in the financial space. The customer has multiple remote sites and requires a VPN solution with the highest encryption.
Which protocol must be used in IPsec Phase 2?

- A. SD-WAN
- B. ISAKMP
- C. ESP
- D. IKE

Answer: C

Explanation:
In IPsec Phase 2, the Encapsulating Security Payload (ESP) protocol is used to provide confidentiality, integrity, and authentication for VPN traffic. ESP ensures the highest encryption and protection for sensitive financial data across remote sites.

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

Answer: A

Explanation:
When moving security closer to the data, the endpoint becomes the final perimeter. Ahost-based firewallis a software component that runs directly on the endpoint's operating system (Windows, macOS, or Linux).
While the company already has Next-Generation Firewalls (NGFWs) at the network edge, those devices cannot protect endpoints from threats originating within the same local network segment (East-West traffic) or when the device is used outside the corporate office.
Implementing a host-based firewall provides a critical layer ofdefense-in-depth. It allows security administrators to enforce strict inbound and outbound traffic rules based on applications and services specific to that device. For example, it can prevent a compromised laptop from scanning other devices on a public Wi- Fi network. In the Cisco ecosystem, this is often achieved through theCisco Secure Client(AnyConnect) using theNetwork Visibility Module (NVM)or integrated endpoint security suites.
While aDistributed Firewall(Option C) is used for micro-segmentation within data centers/clouds and aWeb Application Firewall (WAF)(Option B) protects servers from web-based attacks, only a host-based firewall meets the requirement for traffic filtering directly on the diverse array of endpoint devices. This approach ensures that even if the network edge is bypassed, the individual host remains hardened against lateral movement and unauthorized communication.

NEW QUESTION # 47

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