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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">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	<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 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 VPN tunneling 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 (Q44-Q49):

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. AAA
- C. Control Plane Policing
- D. RBAC

Answer: C

Explanation:

The scenario described-where high CPU utilization prevents administrators from accessing device management interfaces-is a classic indication that the device's Control Plane is 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 maintains operational efficiency even during a traffic spike or attack. While AAA (Option B) handles authentication and RBAC (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.

NEW QUESTION # 45

A manufacturing company experienced a security breach that resulted in sales data being compromised. An engineer participating in the investigation must identify who logged into the sales system during the affected period. Which approach must be used to gather the information?

- A. SNMP
- B. NACM
- C. AAA
- D. PKI

Answer: C

Explanation:

In the aftermath of a security breach, forensic investigators rely on the Accounting portion of AAA (Authentication, Authorization, and Accounting) to reconstruct a timeline of events. While Authentication verifies identity and Authorization defines permissions, Accounting is the specific framework used to track user activity, including login/logout times and the specific commands executed during a session.

According to Cisco Security Infrastructure design objectives, implementing a centralized AAA solution (such as Cisco Identity Services Engine (ISE) or a TACACS+/RADIUS server) is critical for accountability. In this scenario, the engineer would query the

AAA logs to identify exactly "who" accessed the sales system during the compromise period. SNMP (Option A) is primarily for network monitoring and performance data, not granular user access logs. NACM (Option B) is an access control model for NETCONF but doesn't provide the broad auditing required here. PKI (Option D) provides the certificates used for digital signatures and encryption but does not log the historical "session" data needed for the investigation. Therefore, AAA is the fundamental architectural requirement for ensuring non-repudiation and providing the audit trail necessary to satisfy risk management and incident response requirements.

NEW QUESTION # 46

Refer to the exhibit.

Rule Type	Name	Severity	Action	Identities or File Owners	Applications	Data Classifications / File Labels	Last Modified
Real Time	ChatGPT Source Code	Low	Monitor	Inclusion 1 Identity	Inclusion 1 Application	Data Classifications Source Code	May 11, 2023
Real Time	DLP Blocks	Low	Block	Inclusion 3 Identities	Inclusion 1 Application	Data Classifications Internal User Classification	Aug 11, 2021
Real Time	EDM	High	Monitor	Inclusion 3 Identities	Inclusion All Destinations	Data Classifications Employee Data	Aug 01, 2023
Real Time	File Labels	Medium	Monitor	Inclusion 3 Identities	Inclusion All Destinations	File Labels restricted	Aug 01, 2023

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

Answer: B

Explanation:

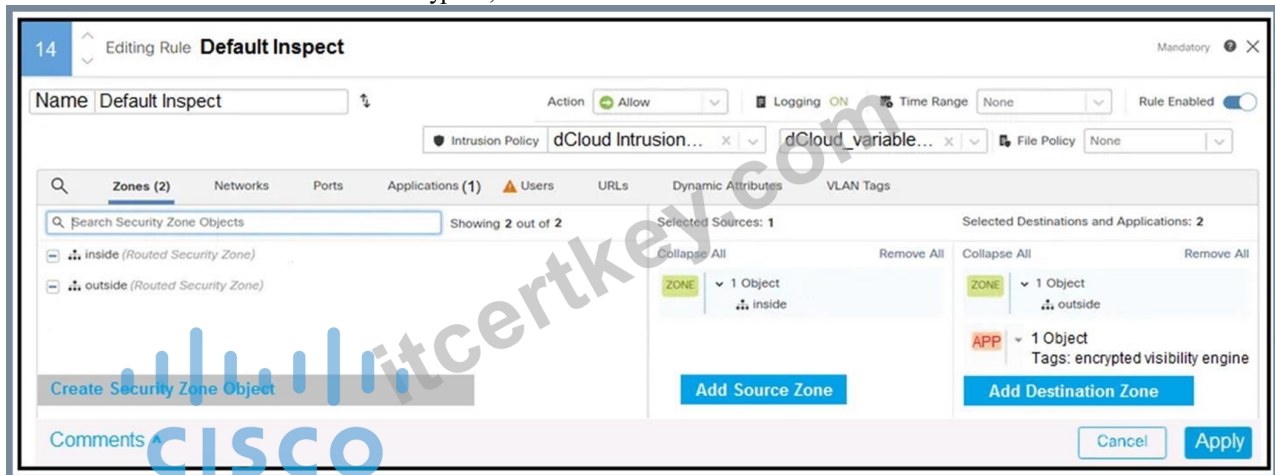
In the provided exhibit of the Cisco Data Loss Prevention (DLP) Policy interface (likely within Cisco Umbrella or a similar cloud security gateway), the reason for the policy's failure to stop the upload is clearly visible in the "Action" column. The rule named "ChatGPT Source Code" is currently configured with the action set to Monitor.

According to the Cisco SDSI v1.0 objectives regarding application and data security, the Monitor action 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 of preventing the unauthorized upload of sensitive data—such as application source code—the policy must be enforcement-centric.

By selecting Option D, the developer changes the action from "Monitor" to Block. 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 # 47

Refer to the exhibit. In addition to SSL decryption, which firewall feature allows malware to be blocked?



- A. File Inspection
- B. URL Filtering
- C. SSL Offloading
- D. DLP

Answer: A

Explanation:

In the exhibit, SSL decryption is already enabled, which allows encrypted traffic to be inspected.

To block malware hidden within decrypted traffic, the next required feature is File Inspection. This function analyzes files passing through the firewall to detect and stop malicious content.

NEW QUESTION # 48

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

Answer: C

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 Umbrella is 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 granular Content Filtering capabilities, 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. While Cisco TrustSec (Option A) and RADIUS (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. A network 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.

NEW QUESTION # 49

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