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Cisco 300-745 Exam Syllabus Topics:

Topic	Details
Topic 1	<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 2	<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 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"> • 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.

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Cisco Designing Cisco Security Infrastructure Sample Questions (Q34-Q39):

NEW QUESTION # 34

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. password policy enforcement
- B. network configuration management
- 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 # 35

A financial company uses a remote access solution that directs all traffic over a secure tunnel. The company recently received some large ISP bills from the headquarter location. According to traffic analysis during the investigation, most of the network traffic was due to employees spending a lot of time on video conferences provided by a SaaS collaboration company. What must the company modify to reduce the cost without negatively impacting security or employee experience?

- A. Block the video conferencing app when connected on VPN.
- B. Suggest users to disconnect from the VPN when on video calls.
- C. Split-exclude the video SaaS application from the VPN.
- D. Reduce the video resolution size permitted within the SaaS application.

Answer: C

Explanation:

In a Full Tunnel VPN configuration, all traffic from the remote client is sent to the VPN headend before being routed to its final destination. This often results in "hairpinning," where high-bandwidth latency-sensitive traffic, such as video conferencing, travels to the corporate data center only to be sent back out to the internet, doubling the bandwidth consumption at the headquarter's ISP link. To resolve this, the company should implement Split-Exclude tunneling. This configuration allows the VPN administrator to define specific applications or IP ranges—in this case, the SaaS video platform—that should bypass the secure tunnel and go directly to the internet via the user's local ISP. This significantly reduces the load on the corporate headquarter's internet connection and often improves the "employee experience" by reducing latency for the video stream. Unlike Option A, which degrades quality, or Option C/D, which disrupts workflow and security posture, split-excluding trusted SaaS traffic maintains a high security standard for internal resources while optimizing infrastructure costs. This aligns with the Cisco SDSI objective of designing scalable and cost-effective remote access solutions using Cisco Secure Client (AnyConnect) and Firepower Threat Defense (FTD) policies.

NEW QUESTION # 36

A company hosted multiple applications in the Kubernetes environment, using the naming app01, app02, and so on. An app01 user could access app02 data because no security measures are implemented. The administrator decided to place each application within a separate namespace and ensure that the namespaces are completely isolated and cannot communicate with each other. Which solution must be used to accomplish the task?

- A. HTTPRoute
- B. NetworkPolicy
- C. Gateway
- D. RoleBinding

Answer: B

Explanation:

In a Kubernetes environment, Namespaces provide a logical partition for resources but do not, by default, provide network isolation. To prevent "app01" from communicating with "app02," a NetworkPolicy must be implemented. NetworkPolicies act as the Layer 3/4 distributed firewall for the cluster, allowing administrators to define explicit rules for ingress and egress traffic between pods and namespaces.

To achieve complete isolation, a common design pattern is to implement a "deny-all" default policy for each namespace and then explicitly allow only necessary traffic. This aligns with the Cisco SAFE architectural principle of micro-segmentation.

While RoleBinding (Option B) manages permissions for the Kubernetes API (who can create or delete pods), it does not control the actual network traffic between those pods. HTTPRoute (Option A) and Gateway (Option D) are components of the Kubernetes Gateway API used for managing external traffic routing and load balancing, rather than internal pod-to-pod isolation. By deploying NetworkPolicies, the administrator ensures that the "blast radius" of a compromised application is contained within its own namespace, fulfilling a core objective of securing cloud-native application infrastructure.

NEW QUESTION # 37

A global energy company moved a monolithic application from the data center to public cloud.

Over time, the company added many capabilities to the application, and it is now difficult for the application team to scale it. The application owner decided to modernize the application by moving to a Kubernetes cluster. However, he wants to ensure that the new application architecture provides a container network interface that is scalable, offers options for cloud-native security, and helps with visibility and observability. Which solution must be used to accomplish the task?

- A. security group
- B. ENI
- C. Cilium
- D. ingress gateway

Answer: C

Explanation:

Cilium is a Kubernetes Container Network Interface (CNI) that provides scalability, cloud-native security with eBPF-based enforcement, and strong visibility/observability into network traffic between microservices. It is purpose-built to modernize applications running in Kubernetes clusters.

NEW QUESTION # 38

An administrator at a large university wants to ensure that the new employees have the right level of access when they are onboarded. The administrator asked the team to configure the cloud environment and ensure that new employees have the appropriate access based on their roles and responsibilities. Which technique must be recommended to ensure the right level of access?

- A. identity access management
- B. security groups
- C. network access control list
- D. VPN

Answer: A

Explanation:

In a modern cloud and campus environment, managing the lifecycle of an identity is the cornerstone of a secure architecture. Identity and Access Management (IAM) is the comprehensive framework of policies and technologies that ensures the right individuals have the appropriate access to technology resources. According to the Cisco SDSI objectives, IAM is the primary mechanism used to transition from manual, error-prone onboarding to a policy-driven approach based on roles and responsibilities. IAM solutions allow administrators to define digital identities and associate them with specific roles (Role-Based Access Control). When a new employee is onboarded, the IAM system automatically provisions access to the necessary cloud applications and data based on their department or job function. This ensures the principle of least privilege is maintained from day one. While Security Groups (Option B) and Network Access Control Lists (ACLs) (Option D) are important technical controls for filtering traffic at the network layer, they do not manage the identity lifecycle or the complex mapping of users to application permissions. A VPN (Option C) provides a secure tunnel for remote access but does not define what a user can do once they are inside the network. IAM provides the central control plane for identity-centric security, which is essential for a large university environment with high user turnover and diverse access requirements.

NEW QUESTION # 39

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