Vendor: Cisco

Exam Code: 300-745

Exam Name: Designing Cisco Security Infrastructure

Version: DEMO

QUESTION 1
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. hashing
B. data masking
C. preshared key
D. authentication

Answer: A
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.

QUESTION 2
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. VPN
D. network access control list

Answer: A
Explanation:
Identity Access Management (IAM) enforces role-based access control, ensuring that new employees are automatically given the correct permissions aligned with their roles and responsibilities. This approach secures the cloud environment by preventing excessive or inappropriate access.

QUESTION 3
A manufacturing company implemented IoT devices throughout their smart factory and needs a security solution that meets these requirements:

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- Protect IoT devices from network-based attacks.
- Visibility into communication patterns.
- Anomaly detection for IoT traffic.
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Which firewall technology or feature should be recommended?

A. zone-based firewall
B. transparent firewall
C. traditional firewall
D. IPS/IDS

Answer: D
Explanation:
An Intrusion Prevention/Detection System (IPS/IDS) provides visibility into IoT communication

patterns, protects against network-based attacks, and uses anomaly detection to identify abnormal IoT traffic behaviors. This makes it the most effective solution for securing IoT devices in a smart factory.

QUESTION 4
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. Install Kensington Lock.
B. Use a BIOS password.
C. Implement data encryption on disk.
D. Apply GPS tracking.

Answer: C
Explanation:
Disk encryption ensures that data stored on devices is unreadable without proper authentication. If a device is lost or stolen, unauthorized users cannot access or misuse the data, since encryption protects the contents until the legitimate user provides credentials.

QUESTION 5
An oil and gas company recently faced a security breach when an employee's notepad, which contained critical login credentials, was stolen. The incident led to unauthorized access to a user account, which posed a significant risk to sensitive company data and operations. The company wants to adopt a security measure that enhances user account protection. Which action must be taken to prevent breaches like this from happening in the future?

A. Implement MFA
B. Implement single sign-on.
C. Update the RADIUS server.
D. Configure a password expiration policy.

Answer: A
Explanation:
Multi-Factor Authentication (MFA) strengthens user account security by requiring additional verification factors beyond passwords, such as tokens or biometrics. Even if credentials are stolen, MFA prevents unauthorized access, directly addressing the breach scenario.

QUESTION 6
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:
Endpoint Detection and Response (EDR) provides continuous monitoring, detection, and automated response to suspicious activity on devices. It can identify and stop ransomware attacks before encryption occurs, mitigating the risk of device lockouts in the future.

QUESTION 7
A telecommunications company recently introduced a hybrid working model. Based on the new policy, employees can work remotely for 2 days per week if corporate equipment is used. The IT department is preparing corporate laptops to support users during the remote working days. Which solution must the IT department implement that provides secure connectivity to corporate resources and protects sensitive corporate data even if a laptop is stolen?

A. Secure Client
B. Cisco Duo
C. ISE Posture
D. Umbrella

Answer: A
Explanation:
Cisco Secure Client (formerly AnyConnect) provides secure remote connectivity through VPN, ensuring encrypted access to corporate resources. It also integrates endpoint security features, protecting sensitive corporate data even if a laptop is stolen.

QUESTION 8
A pharmaceutical company needs hub-and-spoke VPN topology. The design must be capable of building either partial or full mesh overlay networks. Which VPN solution must be implemented in the environment?

A. DMVPN
B. L2TP
C. crypto maps
D. SSL VPN

Answer: A
Explanation:
Dynamic Multipoint VPN (DMVPN) supports hub-and-spoke topologies while allowing flexibility to build partial or full mesh overlays as needed. It provides scalable and dynamic VPN tunnels without requiring static configuration, making it the best fit for the requirement.

QUESTION 9
A furniture company recently discovered that the endpoint detection and response configuration flagged several malicious files on company-managed laptops. The company must enhance security to prevent known malicious files from being delivered to the network and endpoints. The new solution must enhance the company's ability to inspect and filter incoming traffic effectively. Which security product must be used to accomplish this goal?

A. next-generation firewall
B. traditional firewall
C. host-based firewall
D. eBPF

Answer: A
Explanation:
A next-generation firewall (NGFW) inspects and filters incoming traffic with deep packet inspection, intrusion prevention, and advanced malware filtering. This prevents known malicious files from reaching the network and endpoints, complementing the company's EDR solution.

QUESTION 10
A bank experienced challenges with compromised endpoints gaining access to the internal network. To enhance security, the bank wants to ensure that all endpoints are scanned for compliance check before being allowed to access the network. Which action achieves the level of security and control?

A. Use MFA using Cisco DUO.
B. Configure TrustSec using Cisco ISE.
C. Set up data loss prevention policy.
D. Implement Posture validation using Cisco ISE.

Answer: D
Explanation:
Posture validation with Cisco ISE checks endpoint compliance (such as antivirus status, patches, and security configurations) before granting network access. This ensures compromised or non-compliant endpoints are denied access, directly addressing the bank's security concern.

QUESTION 11
A financial company is in the process of upgrading network access across the entire company. The solution must ensure:

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- least privilege access
- control access across different network segments
- increased security for employers
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Which solution approach must the company take?

A. NetFlow
B. SNMP
C. PKI
D. RBAC

Answer: D
Explanation:
Role-Based Access Control (RBAC) enforces least privilege access by granting permissions based on roles, not individuals. It also provides centralized control across network segments, ensuring employees only have the access necessary for their responsibilities, thereby increasing overall security.

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