SY0-501 Dumps

CompTIA Security+ Certification Exam

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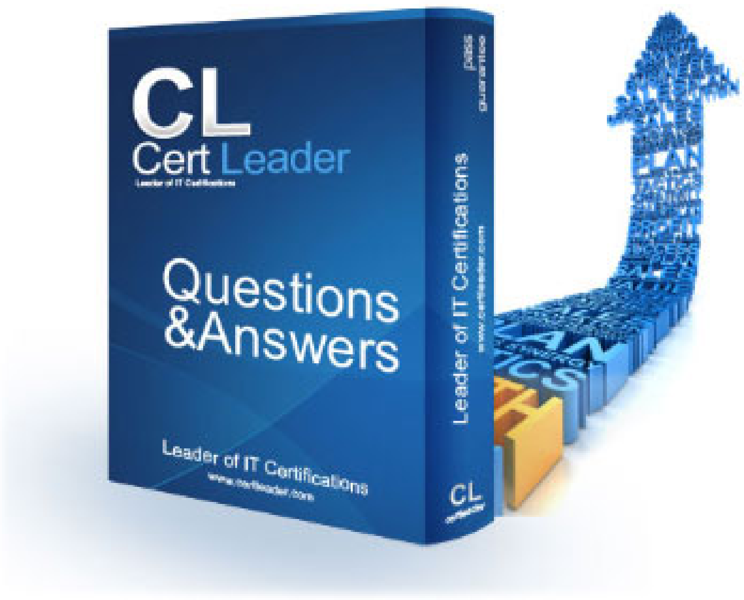


NEW QUESTION 1
- (Exam Topic 1)
An analyst wants to implement a more secure wireless authentication for office access points. Which of the following technologies allows for encrypted authentication of wireless clients over TLS?

A. PEAP
B. EAP
C. WPA2
D. RADIUS

Answer: A

Explanation:
EAP by itself is only an authentication framework.
PEAP (Protected Extensible Authentication Protocol) fully encapsulates EAP and is designed to work within a TLS (Transport Layer Security) tunnel that may be encrypted but is authenticated. The primary motivation behind the creation of PEAP was to help correct the deficiencies discovered within EAP since that protocol assumes that the communications channel is protected. As a result, when EAP messages are able to be
discovered in the “clear” they do not provide the protection that was assumed when the protocol was originally authored.
PEAP, EAP-TTLS, and EAP-TLS “protect” inner EAP authentication within SSL/TLS sessions.

NEW QUESTION 2
- (Exam Topic 1)
An organization finds that most help desk calls are regarding account lockout due to a variety of applications running on different systems. Management is looking for a solution to reduce the number of account lockouts while improving security. Which of the following is the BEST solution for this organization?

A. Create multiple application accounts for each user.
B. Provide secure tokens.
C. Implement SSO.
D. Utilize role-based access control.

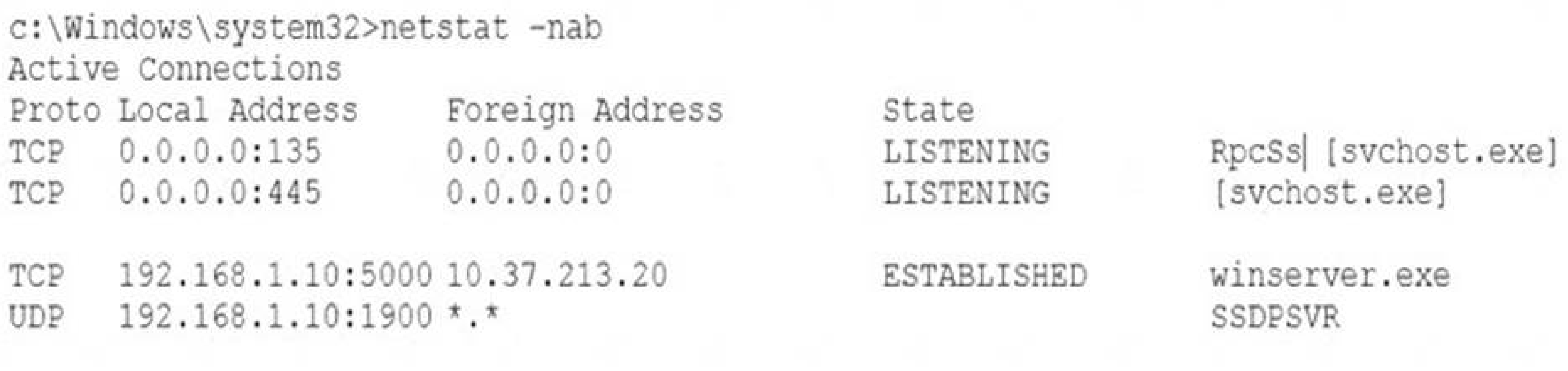
Answer: C

NEW QUESTION 3
- (Exam Topic 1)
Which of the following BEST describes an important security advantage yielded by implementing vendor diversity?

A. Sustainability
B. Homogeneity
C. Resiliency
D. Configurability

Answer: C

NEW QUESTION 4
- (Exam Topic 1)
After a user reports stow computer performance, a systems administrator detects a suspicious file, which was installed as part of a freeware software package. The systems administrator reviews the output below:



```
c:\Windows\system32>netstat -nab
Active Connections
Proto Local Address      Foreign Address        State          
TCP   0.0.0.0:135        0.0.0.0:0              LISTENING      RpcSs| [svchost.exe]
TCP   0.0.0.0:445        0.0.0.0:0              LISTENING      [svchost.exe]

TCP   192.168.1.10:5000 10.37.213.20            ESTABLISHED    winserver.exe
UDP   192.168.1.10:1900 *.*                                    SSDPSVR
```

Based on the above information, which of the following types of malware was installed on the user's computer?

A. RAT
B. Keylogger
C. Spyware
D. Worm
E. Bot

Answer: D

NEW QUESTION 5
- (Exam Topic 1)
A network administrator at a small office wants to simplify the configuration of mobile clients connecting to an encrypted wireless network. Which of the following should be implemented in the administrator does not want to provide the wireless password or he certificate to the employees?

A. WPS

B. 802.1x
C. WPA2-PSK
D. TKIP

Answer: A

NEW QUESTION 6
- (Exam Topic 1)
A company's user lockout policy is enabled after five unsuccessful login attempts. The help desk notices a user is repeatedly locked out over the course of a workweek. Upon contacting the user, the help desk discovers the user is on vacation and does not have network access. Which of the following types of attacks are MOST likely occurring? (Select two.)

A. Replay
B. Rainbow tables
C. Brute force
D. Pass the hash
E. Dictionary

Answer: CE

NEW QUESTION 7
- (Exam Topic 1)
Which of the following can be provided to an AAA system for the identification phase?

A. Username
B. Permissions
C. One-time token
D. Private certificate

Answer: A

NEW QUESTION 8
- (Exam Topic 1)
Malicious traffic from an internal network has been detected on an unauthorized port on an application server. Which of the following network-based security controls should the engineer consider implementing?

A. ACLs
B. HIPS
C. NAT
D. MAC filtering

Answer: A

NEW QUESTION 9
- (Exam Topic 1)
Which of the following would MOST likely appear in an uncredentialed vulnerability scan?

A. Self-signed certificates
B. Missing patches
C. Auditing parameters
D. Inactive local accounts

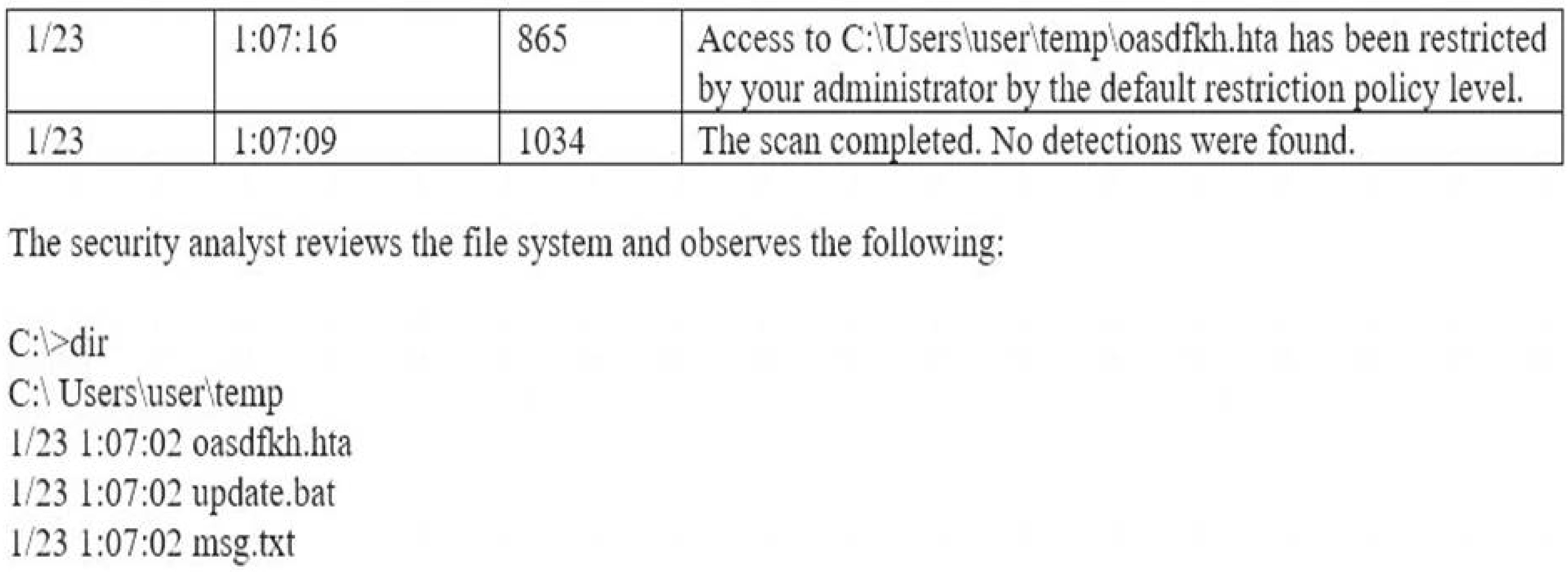
Answer: D

NEW QUESTION 10
- (Exam Topic 1)
A high-security defense installation recently begun utilizing large guard dogs that bark very loudly and excitedly at the slightest provocation. Which of the following types of controls does this BEST describe?

A. Deterrent
B. Preventive
C. Detective
D. Compensating

Answer: A

NEW QUESTION 10
- (Exam Topic 1)
A security analyst observes the following events in the logs of an employee workstation:



1/23	1:07:16	865	Access to C:\Users\user\temp\oasdfkh.hta has been restricted by your administrator by the default restriction policy level.
1/23	1:07:09	1034	The scan completed. No detections were found.

The security analyst reviews the file system and observes the following:

```
C:\>dir
C:\ Users\user\temp
1/23 1:07:02 oasdfkh.hta
1/23 1:07:02 update.bat
1/23 1:07:02 msg.txt
```

Given the information provided, which of the following MOST likely occurred on the workstation?

A. Application whitelisting controls blocked an exploit payload from executing.
B. Antivirus software found and quarantined three malware files.
C. Automatic updates were initiated but failed because they had not been approved.
D. The SIEM log agent was not tuned properly and reported a false positive.

Answer: A

NEW QUESTION 11
- (Exam Topic 1)
A company determines that it is prohibitively expensive to become compliant with new credit card regulations. Instead, the company decides to purchase insurance to cover the cost of any potential loss. Which of the following is the company doing?

A. Transferring the risk
B. Accepting the risk
C. Avoiding the risk
D. Migrating the risk

Answer: A

NEW QUESTION 15
- (Exam Topic 1)
Users report the following message appears when browsing to the company’s secure site: This website cannot be trusted. Which of the following actions should a security analyst take to resolve these messages? (Select two.)

A. Verify the certificate has not expired on the server.
B. Ensure the certificate has a .pfx extension on the server.
C. Update the root certificate into the client computer certificate store.
D. Install the updated private key on the web server.
E. Have users clear their browsing history and relaunch the session.

Answer: AC

NEW QUESTION 18
- (Exam Topic 1)
Despite having implemented password policies, users continue to set the same weak passwords and reuse old passwords. Which of the following technical controls would help prevent these policy violations? (Select two.)

A. Password expiration
B. Password length
C. Password complexity
D. Password history
E. Password lockout

Answer: CD

NEW QUESTION 19
- (Exam Topic 1)
A security consultant discovers that an organization is using the PCL protocol to print documents, utilizing the default driver and print settings. Which of the following is the MOST likely risk in this situation?

A. An attacker can access and change the printer configuration.
B. SNMP data leaving the printer will not be properly encrypted.
C. An MITM attack can reveal sensitive information.
D. An attacker can easily inject malicious code into the printer firmware.
E. Attackers can use the PCL protocol to bypass the firewall of client computers.

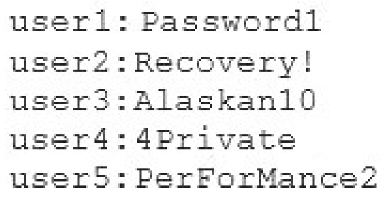
Answer: B

NEW QUESTION 24
- (Exam Topic 1)
A wireless network uses a RADIUS server that is connected to an authenticator, which in turn connects to a supplicant. Which of the following represents the authentication architecture in use?

A. Open systems authentication
B. Captive portal
C. RADIUS federation
D. 802.1x

Answer: D

NEW QUESTION 29
- (Exam Topic 1)
An auditor is reviewing the following output from a password-cracking tool:



```
user1:Password1
user2:Recovery!
user3:Alaskan10
user4:4Private
user5:PerForMance2
```

Which of the following methods did the auditor MOST likely use?

A. Hybrid
B. Dictionary
C. Brute force
D. Rainbow table

Answer: A

NEW QUESTION 32
- (Exam Topic 1)
A security analyst is diagnosing an incident in which a system was compromised from an external IP address. The socket identified on the firewall was traced to 207.46.130.0:6666. Which of the following should the
security analyst do to determine if the compromised system still has an active connection?

A. tracert
B. netstat
C. ping
D. nslookup

Answer: B

NEW QUESTION 36
- (Exam Topic 1)
A company is terminating an employee for misbehavior. Which of the following steps is MOST important in the process of disengagement from this employee?

A. Obtain a list of passwords used by the employee.
B. Generate a report on outstanding projects the employee handled.
C. Have the employee surrender company identification.
D. Have the employee sign an NDA before departing.

Answer: C

NEW QUESTION 40
- (Exam Topic 1)
A system administrator wants to provide for and enforce wireless access accountability during events where external speakers are invited to make presentations to a mixed audience of employees and non-employees.
Which of the following should the administrator implement?

A. Shared accounts
B. Preshared passwords
C. Least privilege
D. Sponsored guest

Answer: D

NEW QUESTION 45
- (Exam Topic 1)
Multiple organizations operating in the same vertical want to provide seamless wireless access for their employees as they visit the other organizations. Which of the following should be implemented if all the organizations use the native 802.1x client on their mobile devices?

A. Shibboleth
B. RADIUS federation

C. SAML
D. OAuth
E. OpenID connect

Answer: B

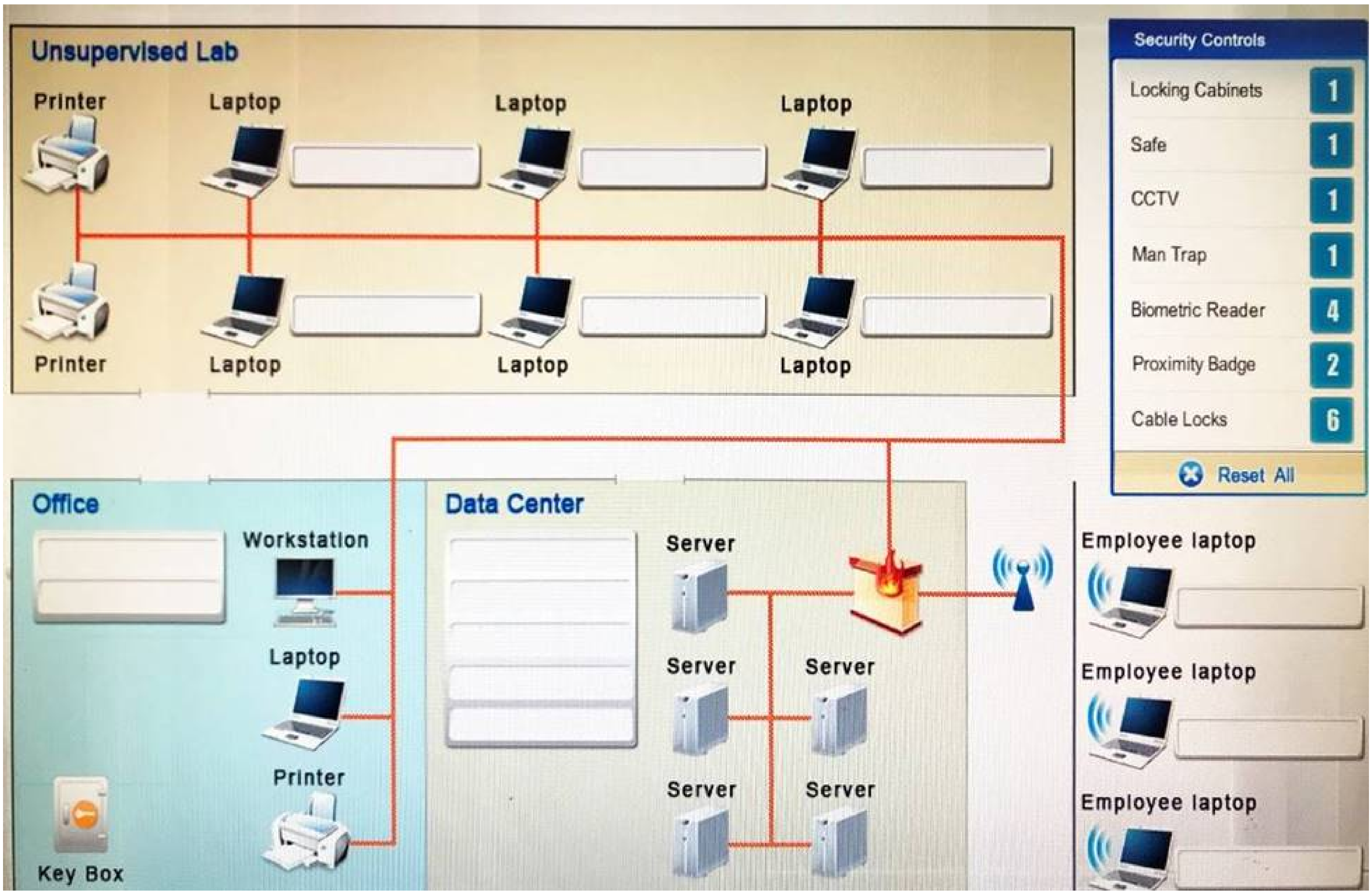
Explanation:
http://archive.oreilly.com/pub/a/wireless/2005/01/01/authentication.html

NEW QUESTION 47
- (Exam Topic 1)
A security analyst wishes to increase the security of an FTP server. Currently, all traffic to the FTP server is unencrypted. Users connecting to the FTP server use a variety of modern FTP client software.
The security analyst wants to keep the same port and protocol, while also still allowing unencrypted connections. Which of the following would BEST accomplish these goals?

A. Require the SFTP protocol to connect to the file server.
B. Use implicit TLS on the FTP server.
C. Use explicit FTPS for connections.
D. Use SSH tunneling to encrypt the FTP traffic.

Answer: C

NEW QUESTION 48
- (Exam Topic 1)
You have been tasked with designing a security plan for your company. Drag and drop the appropriate security controls on the floor plan.
Instructions: All objects must be used and all place holders must be filled. Order does not matter. When you have completed the simulation, please select the Done button to submit.

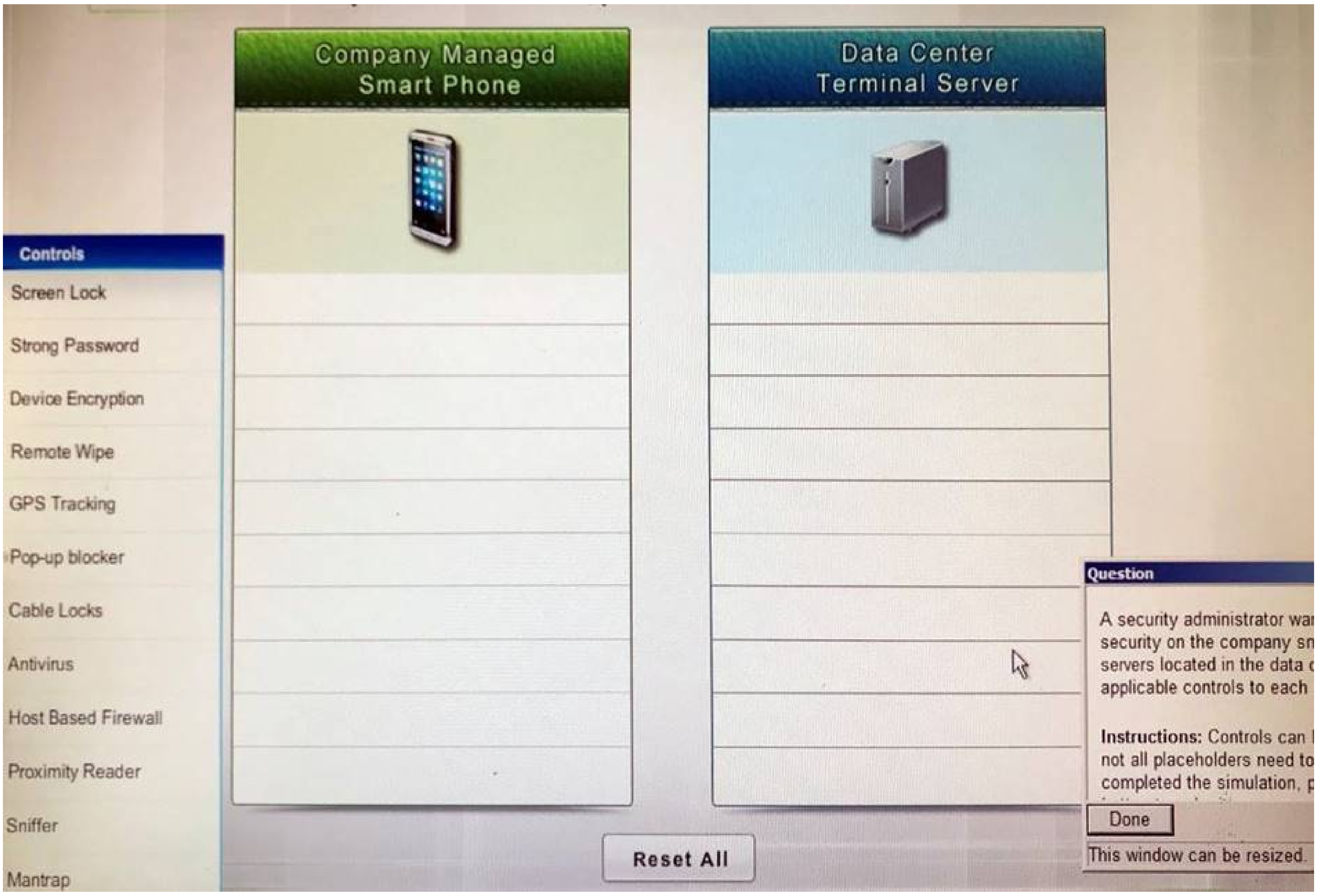


A. Mastered
B. Not Mastered

Answer: A

Explanation:
Cable locks - Adding a cable lock between a laptop and a desk prevents someone from picking it up and walking away
Proximity badge + reader
Safe is a hardware/physical security measure
Mantrap can be used to control access to sensitive areas. CCTV can be used as video surveillance. Biometric reader can be used to control and prevent unauthorized access. Locking cabinets can be used to protect backup media, documentation and other physical artefacts.

NEW QUESTION 53
- (Exam Topic 1)
A security administrator wants to implement strong security on the company smart phones and terminal servers located in the data center. Drag and drop the applicable controls to each asset types?
Instructions: Controls can be used multiple times and not all placeholders need to be filled. When you have completed the simulation, please select the Done button to submit.



A security administrator wa
security on the company sn
servers located in the data c
applicable controls to each

Instructions: Controls can
not all placeholders need to
completed the simulation, p

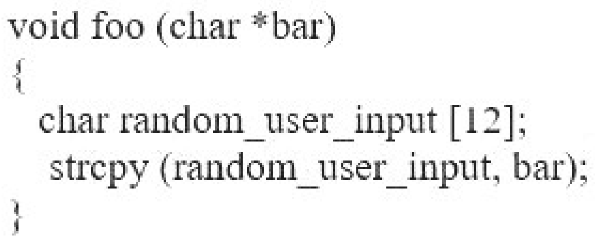
This window can be resized.

A. Mastered
B. Not Mastered

Answer: A

Explanation:
Company Manages Smart Phone Screen Lock
Strong Password Device Encryption Remote Wipe GPS Tracking
Pop-up blocker
Data Center Terminal Server Cable Locks
Antivirus
Host Based Firewall Proximity Reader Sniffer
Mantrap

NEW QUESTION 58
- (Exam Topic 1)
An analyst is reviewing a simple program for potential security vulnerabilities before being deployed to a Windows server. Given the following code:



```
void foo (char *bar)
{
  char random_user_input [12];
   strcpy (random_user_input, bar);
}
```

Which of the following vulnerabilities is present?

A. Bad memory pointer
B. Buffer overflow
C. Integer overflow
D. Backdoor

Answer: B

NEW QUESTION 59
- (Exam Topic 1)
When trying to log onto a company's new ticketing system, some employees receive the following message: Access denied: too many concurrent sessions. The ticketing system was recently installed on a small VM with only the recommended hardware specifications. Which of the following is the MOST likely cause for this error message?

A. Network resources have been exceeded.
B. The software is out of licenses.
C. The VM does not have enough processing power.
D. The firewall is misconfigured.

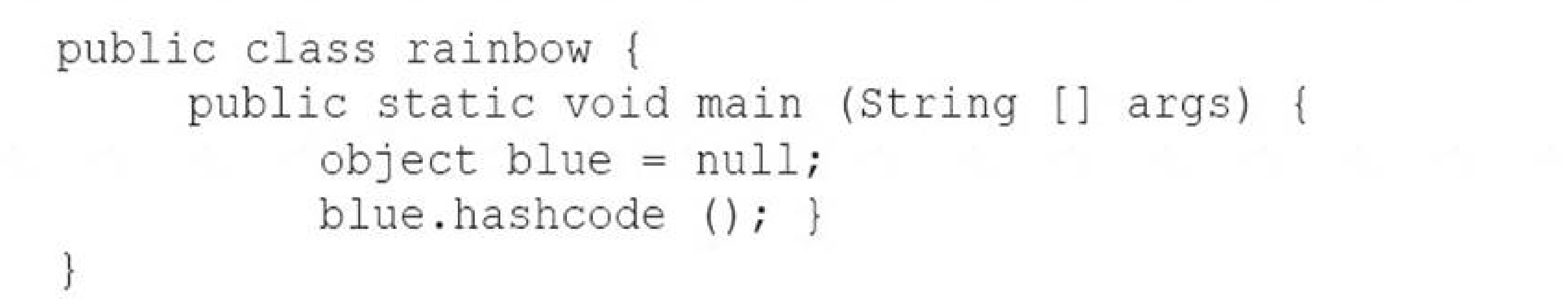
Answer: C

NEW QUESTION 62
- (Exam Topic 1)
As part of a new industry regulation, companies are required to utilize secure, standardized OS settings. A technical must ensure the OS settings are hardened. Which of the following is the BEST way to do this?

A. Use a vulnerability scanner.
B. Use a configuration compliance scanner.
C. Use a passive, in-line scanner.
D. Use a protocol analyzer.

Answer: B

NEW QUESTION 64
- (Exam Topic 1)
Refer to the following code:



```
public class rainbow {
     public static void main (String [] args) {
          object blue = null;
          blue.hashcode (); }
}
```

Which of the following vulnerabilities would occur if this is executed?

A. Page exception
B. Pointer deference
C. NullPointerException
D. Missing null check

Answer: D

NEW QUESTION 67
- (Exam Topic 1)
Which of the following security controls does an iris scanner provide?

A. Logical
B. Administrative
C. Corrective
D. Physical
E. Detective
F. Deterrent

Answer: D

NEW QUESTION 69
- (Exam Topic 1)
Which of the following encryption methods does PKI typically use to securely project keys?

A. Elliptic curve
B. Digital signatures
C. Asymmetric
D. Obfuscation

Answer: C

NEW QUESTION 74
- (Exam Topic 1)
A systems administrator is attempting to recover from a catastrophic failure in the datacenter. To recover the domain controller, the systems administrator needs to provide the domain administrator credentials. Which of the following account types is the systems administrator using?

A. Shared account
B. Guest account
C. Service account
D. User account

Answer: C

NEW QUESTION 79
- (Exam Topic 1)
An administrator is replacing a wireless router. The configuration of the old wireless router was not documented before it stopped functioning. The equipment connecting to the wireless network uses older legacy equipment that was manufactured prior to the release of the 802.11i standard. Which of the following configuration options should the administrator select for the new wireless router?

A. WPA+CCMP
B. WPA2+CCMP
C. WPA+TKIP
D. WPA2+TKIP

Answer: D

NEW QUESTION 82
- (Exam Topic 1)
A network administrator wants to implement a method of securing internal routing. Which of the following should the administrator implement?

A. DMZ
B. NAT
C. VPN
D. PAT

Answer: C

NEW QUESTION 85
- (Exam Topic 1)
Ann. An employee in the payroll department, has contacted the help desk citing multiple issues with her device, including:
- Slow performance
- Word documents, PDFs, and images no longer opening
- A pop-up

Ann states the issues began after she opened an invoice that a vendor emailed to her. Upon opening the invoice, she had to click several security warnings to view it in her word processor. With which of the following is the device MOST likely infected?

A. Spyware
B. Crypto-malware
C. Rootkit
D. Backdoor

Answer: D

NEW QUESTION 86
- (Exam Topic 1)
Which of the following threat actors is MOST likely to steal a company’s proprietary information to gain a market edge and reduce time to market?

A. Competitor
B. Hacktivist
C. Insider
D. Organized crime.

Answer: A

NEW QUESTION 90
- (Exam Topic 1)
A security analyst is hardening a server with the directory services role installed. The analyst must ensure LDAP traffic cannot be monitored or sniffed and maintains compatibility with LDAP clients. Which of the following should the analyst implement to meet these requirements? (Select two.)

A. Generate an X.509-compliant certificate that is signed by a trusted CA.
B. Install and configure an SSH tunnel on the LDAP server.
C. Ensure port 389 is open between the clients and the servers using the communication.
D. Ensure port 636 is open between the clients and the servers using the communication.
E. Remote the LDAP directory service role from the server.

Answer: AD

NEW QUESTION 94
- (Exam Topic 1)
Adhering to a layered security approach, a controlled access facility employs security guards who verify the authorization of all personnel entering the facility. Which of the following terms BEST describes the security control being employed?

A. Administrative
B. Corrective
C. Deterrent
D. Compensating

Answer: C

NEW QUESTION 98
- (Exam Topic 1)
A company is currently using the following configuration:

- IAS server with certificate-based EAP-PEAP and MSCHAP
- Unencrypted authentication via PAP

A security administrator needs to configure a new wireless setup with the following configurations:

- PAP authentication method
- PEAP and EAP provide two-factor authentication

Which of the following forms of authentication are being used? (Select two.)

A. PAP
B. PEAP
C. MSCHAP
D. PEAP- MSCHAP
E. EAP
F. EAP-PEAP

Answer: AC

NEW QUESTION 101
- (Exam Topic 1)
A penetration tester is crawling a target website that is available to the public. Which of the following represents the actions the penetration tester is performing?

A. URL hijacking
B. Reconnaissance
C. White box testing
D. Escalation of privilege

Answer: B

NEW QUESTION 102
- (Exam Topic 1)
A department head at a university resigned on the first day of the spring semester. It was subsequently determined that the department head deleted numerous files and directories from the server-based home directory while the campus was closed. Which of the following policies or procedures could have prevented this from occurring?

A. Time-of-day restrictions
B. Permission auditing and review
C. Offboarding
D. Account expiration

Answer: C

NEW QUESTION 107
- (Exam Topic 1)
When identifying a company's most valuable assets as part of a BIA, which of the following should be the FIRST priority?

A. Life
B. Intellectual property
C. Sensitive data
D. Public reputation

Answer: A

NEW QUESTION 110
- (Exam Topic 1)
When configuring settings in a mandatory access control environment, which of the following specifies the subjects that can access specific data objects?

A. Owner
B. System
C. Administrator
D. User

Answer: C

NEW QUESTION 113
- (Exam Topic 2)

A chief Financial Officer (CFO) has asked the Chief Information Officer (CISO) to provide responses to a recent audit report detailing deficiencies in the organization security controls. The CFO would like to know ways in which the organization can improve its authorization controls.
Given the request by the CFO, which of the following controls should the CISO focus on in the report? (Select Three)

A. Password complexity policies
B. Hardware tokens
C. Biometric systems
D. Role-based permissions
E. One time passwords
F. Separation of duties
G. Multifactor authentication
H. Single sign-on
I. Lease privilege

Answer: DFI

NEW QUESTION 117
- (Exam Topic 2)
Which of the following cryptography algorithms will produce a fixed-length, irreversible output?

A. AES
B. 3DES
C. RSA
D. MD5

Answer: D

NEW QUESTION 120
- (Exam Topic 2)
A company has a security policy that specifies all endpoint computing devices should be assigned a unique identifier that can be tracked via an inventory management system. Recent changes to airline security regulations have cause many executives in the company to travel with mini tablet devices instead of laptops.
These tablet devices are difficult to tag and track. An RDP application is used from the tablet to connect into the company network.
Which of the following should be implemented in order to meet the security policy requirements?

A. Virtual desktop infrastructure (IDI)
B. WS-security and geo-fencing
C. A hardware security module (HSM)
D. RFID tagging system
E. MDM software
F. Security Requirements Traceability Matrix (SRTM)

Answer: E

NEW QUESTION 123
- (Exam Topic 2)
A security analyst wants to harden the company’s VoIP PBX. The analyst is worried that credentials may be intercepted and compromised when IP phones authenticate with the BPX. Which of the following would best prevent this from occurring?

A. Implement SRTP between the phones and the PBX.
B. Place the phones and PBX in their own VLAN.
C. Restrict the phone connections to the PBX.
D. Require SIPS on connections to the PBX.

Answer: D

NEW QUESTION 124
- (Exam Topic 2)
A technician suspects that a system has been compromised. The technician reviews the following log entry: WARNING- hash mismatch: C:\Window\SysWOW64\user32.dll
WARNING- hash mismatch: C:\Window\SysWOW64\kernel32.dll
Based solely ono the above information, which of the following types of malware is MOST likely installed on the system?

A. Rootkit
B. Ransomware
C. Trojan
D. Backdoor

Answer: A

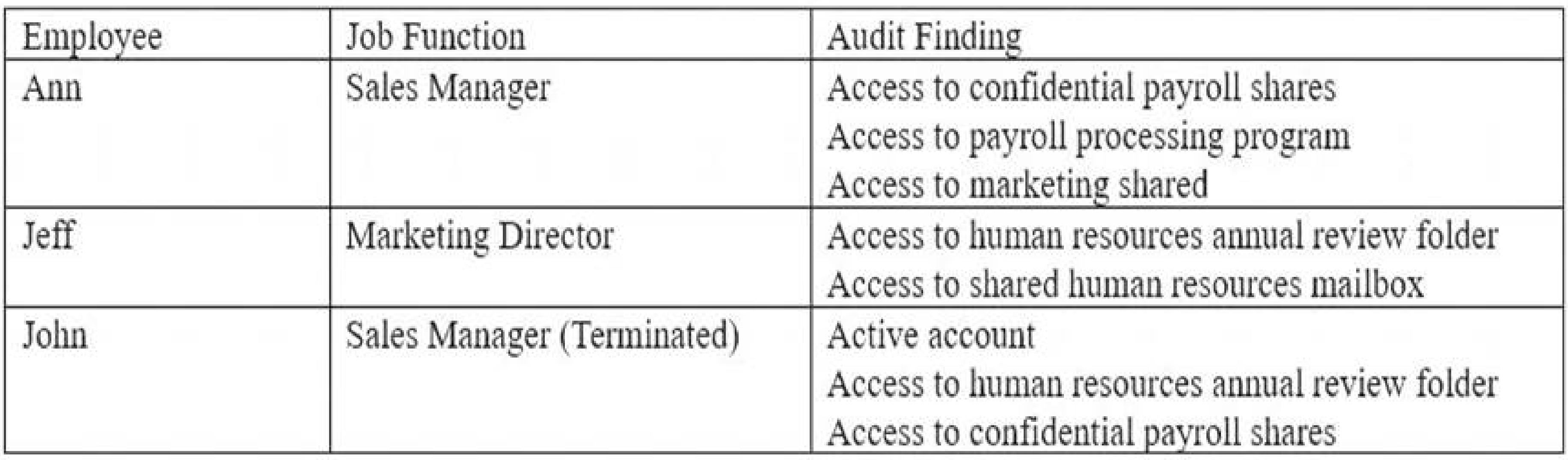
NEW QUESTION 127
- (Exam Topic 2)
Which of the following AES modes of operation provide authentication? (Select two.)

A. CCM
B. CBC
C. GCM
D. DSA

E. CFB

Answer: AC

NEW QUESTION 129
- (Exam Topic 2)
An audit takes place after company-wide restricting, in which several employees changed roles. The following deficiencies are found during the audit regarding access to confidential data:



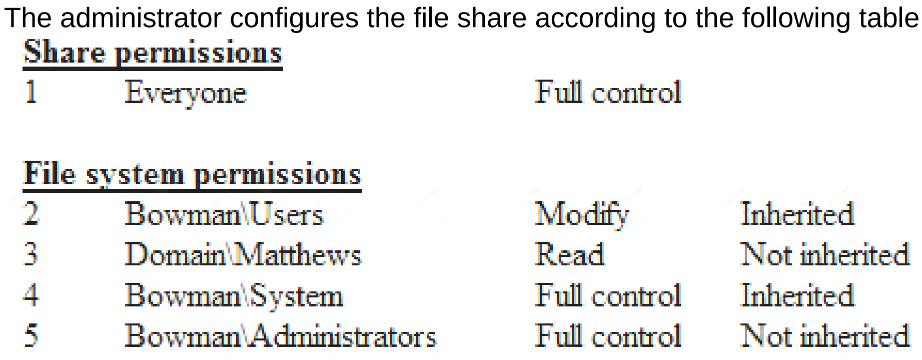
Employee	Job Function	Audit Finding
Ann	Sales Manager	Access to confidential payroll shares Access to payroll processing program Access to marketing shared
Jeff	Marketing Director	Access to human resources annual review folder Access to shared human resources mailbox
John	Sales Manager (Terminated)	Active account Access to human resources annual review folder Access to confidential payroll shares

Which of the following would be the BEST method to prevent similar audit findings in the future?

A. Implement separation of duties for the payroll department.
B. Implement a DLP solution on the payroll and human resources servers.
C. Implement rule-based access controls on the human resources server.
D. Implement regular permission auditing and reviews.

Answer: A

NEW QUESTION 131
- (Exam Topic 2)
An administrator is configuring access to information located on a network file server named “Bowman”. The files are located in a folder named “BalkFiles”. The files are only for use by the “Matthews” division and should be read-only. The security policy requires permissions for shares to be managed at the file system layer and also requires those permissions to be set according to a least privilege model. Security policy for this data type also dictates that administrator-level accounts on the system have full access to the files.
The administrator configures the file share according to the following table:



Share permissions

1	Everyone	Full control	

File system permissions

2	Bowman\Users	Modify	Inherited
3	Domain\Matthews	Read	Not inherited
4	Bowman\System	Full control	Inherited
5	Bowman\Administrators	Full control	Not inherited

Which of the following rows has been misconfigured?

A. Row 1
B. Row 2
C. Row 3
D. Row 4
E. Row 5

Answer: D

NEW QUESTION 133
- (Exam Topic 2)
Which of the following differentiates a collision attack from a rainbow table attack?

A. A rainbow table attack performs a hash lookup
B. A rainbow table attack uses the hash as a password
C. In a collision attack, the hash and the input data are equivalent
D. In a collision attack, the same input results in different hashes

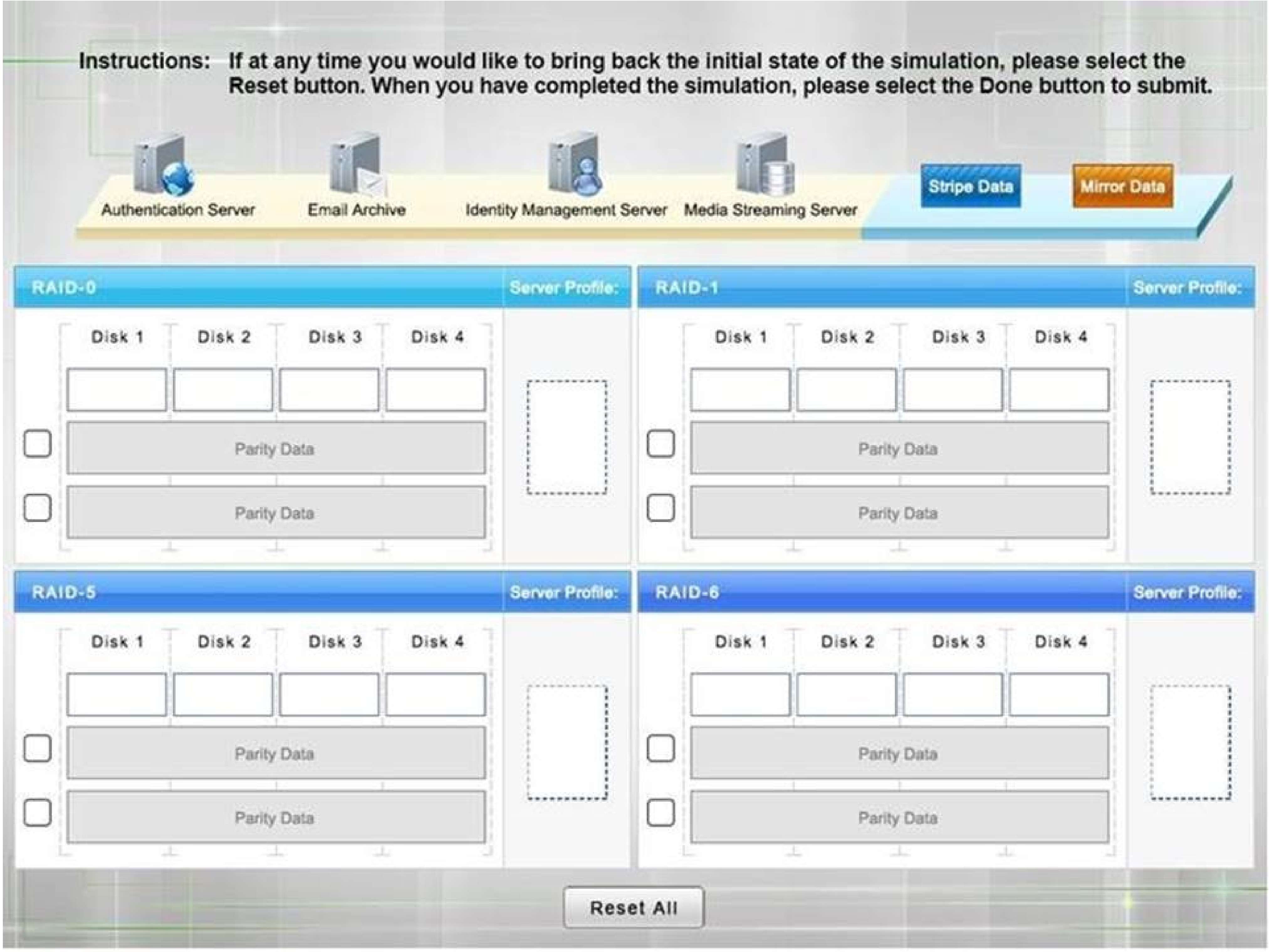
Answer: A

NEW QUESTION 137
- (Exam Topic 2)
A security administrator is given the security and availability profiles for servers that are being deployed.

- Match each RAID type with the correct configuration and MINIMUM number of drives.
- Review the server profiles and match them with the appropriate RAID type based on integrity, availability, I/O, storage requirements. Instructions:

- All drive definitions can be dragged as many times as necessary
- Not all placeholders may be filled in the RAID configuration boxes
- If parity is required, please select the appropriate number of parity checkboxes
- Server profiles may be dragged only once

If at any time you would like to bring back the initial state of the simulation, please select the Reset button. When you have completed the simulation, please select the Done button to submit. Once the simulation is submitted, please select the Next button to continue.



Instructions: If at any time you would like to bring back the initial state of the simulation, please select the Reset button. When you have completed the simulation, please select the Done button to submit.

A. Mastered
B. Not Mastered

Answer: A

Explanation:
RAID-0 is known as striping. It is not a fault tolerant solution but does improve disk performance for read/write operations. Striping requires a minimum of two disks and does not use parity.
RAID-0 can be used where performance is required over fault tolerance, such as a media streaming server. RAID-1 is known as mirroring because the same data is written to two disks so that the two disks have
identical data. This is a fault tolerant solution that halves the storage space. A minimum of two disks are used in mirroring and does not use parity. RAID-1 can be used where fault tolerance is required over performance, such as on an authentication server. RAID-5 is a fault tolerant solution that uses parity and striping. A minimum of three disks are required for RAID-5 with one disk's worth of space being used for parity information. However, the parity information is distributed across all the disks. RAID-5 can recover from a sing disk failure.
RAID-6 is a fault tolerant solution that uses dual parity and striping. A minimum of four disks are required for RAID-6. Dual parity allows RAID-6 to recover from the simultaneous failure of up to two disks. Critical data should be stored on a RAID-6 system.
http://www.adaptec.com/en-us/solutions/raid_levels.html

NEW QUESTION 139
- (Exam Topic 2)
An attacker discovers a new vulnerability in an enterprise application. The attacker takes advantage of the vulnerability by developing new malware. After installing the malware, the attacker is provided with access to the infected machine.
Which of the following is being described?

A. Zero-day exploit
B. Remote code execution
C. Session hijacking
D. Command injection

Answer: A

NEW QUESTION 143
- (Exam Topic 2)
After a merger between two companies a security analyst has been asked to ensure that the organization's systems are secured against infiltration by any former employees that were terminated during the transition.
Which of the following actions are MOST appropriate to harden applications against infiltration by former employees? (Select TWO)

A. Monitor VPN client access
B. Reduce failed login out settings
C. Develop and implement updated access control policies
D. Review and address invalid login attempts
E. Increase password complexity requirements
F. Assess and eliminate inactive accounts

Answer: CF

NEW QUESTION 148
- (Exam Topic 2)
A security administrator has been tasked with improving the overall security posture related to desktop machines on the network. An auditor has recently that several machines with confidential customer information displayed in the screens are left unattended during the course of the day.
Which of the following could the security administrator implement to reduce the risk associated with the finding?

A. Implement a clean desk policy
B. Security training to prevent shoulder surfing
C. Enable group policy based screensaver timeouts
D. Install privacy screens on monitors

Answer: C

NEW QUESTION 151
- (Exam Topic 2)
An in-house penetration tester is using a packet capture device to listen in on network communications. This is an example of:

A. Passive reconnaissance
B. Persistence
C. Escalation of privileges
D. Exploiting the switch

Answer: D

NEW QUESTION 153
- (Exam Topic 2)
To reduce disk consumption, an organization’s legal department has recently approved a new policy setting the data retention period for sent email at six months. Which of the following is the BEST way to ensure this
goal is met?

A. Create a daily encrypted backup of the relevant emails.
B. Configure the email server to delete the relevant emails.
C. Migrate the relevant emails into an “Archived” folder.
D. Implement automatic disk compression on email servers.

Answer: A

NEW QUESTION 158
- (Exam Topic 2)
While reviewing the monthly internet usage it is noted that there is a large spike in traffic classified as "unknown" and does not appear to be within the bounds of the organizations Acceptable Use Policy.
Which of the following tool or technology would work BEST for obtaining more information on this traffic?

A. Firewall logs
B. IDS logs
C. Increased spam filtering
D. Protocol analyzer

Answer: B

NEW QUESTION 163
- (Exam Topic 2)
A bank requires tellers to get manager approval when a customer wants to open a new account. A recent audit shows that there have been four cases in the previous year where tellers opened accounts without management approval. The bank president thought separation of duties would prevent this from happening.
In order to implement a true separation of duties approach the bank could:

A. Require the use of two different passwords held by two different individuals to open an account
B. Administer account creation on a role based access control approach
C. Require all new accounts to be handled by someone else other than a teller since they have different duties
D. Administer account creation on a rule based access control approach

Answer: C

NEW QUESTION 167
- (Exam Topic 2)
An organization requires users to provide their fingerprints to access an application. To improve security, the application developers intend to implement multifactor authentication. Which of the following should be implemented?

A. Use a camera for facial recognition
B. Have users sign their name naturally
C. Require a palm geometry scan
D. Implement iris recognition

Answer: B

NEW QUESTION 170
- (Exam Topic 2)
A security engineer is faced with competing requirements from the networking group and database administrators. The database administrators would like ten application servers on the same subnet for ease of administration, whereas the networking group would like to segment all applications from one another. Which of the following should the security administrator do to rectify this issue?

A. Recommend performing a security assessment on each application, and only segment the applications with the most vulnerability
B. Recommend classifying each application into like security groups and segmenting the groups from one another
C. Recommend segmenting each application, as it is the most secure approach
D. Recommend that only applications with minimal security features should be segmented to protect them

Answer: B

NEW QUESTION 172
- (Exam Topic 2)
An employee receives an email, which appears to be from the Chief Executive Officer (CEO), asking for a report of security credentials for all users.
Which of the following types of attack is MOST likely occurring?

A. Policy violation
B. Social engineering
C. Whaling
D. Spear phishing

Answer: D

NEW QUESTION 174
- (Exam Topic 2)
A security analyst notices anomalous activity coming from several workstations in the organizations. Upon identifying and containing the issue, which of the following should the security analyst do NEXT?

A. Document and lock the workstations in a secure area to establish chain of custody
B. Notify the IT department that the workstations are to be reimaged and the data restored for reuse
C. Notify the IT department that the workstations may be reconnected to the network for the users to continue working
D. Document findings and processes in the after-action and lessons learned report

Answer: D

NEW QUESTION 179
- (Exam Topic 2)
A security administrator must implement a system to ensure that invalid certificates are not used by a custom developed application. The system must be able to check the validity of certificates even when internet access is unavailable.
Which of the following MUST be implemented to support this requirement?

A. CSR
B. OCSP
C. CRL
D. SSH

Answer: C

NEW QUESTION 183
- (Exam Topic 2)
Which of the following cryptographic algorithms is irreversible?

A. RC4
B. SHA-256
C. DES
D. AES

Answer: B

NEW QUESTION 185

- (Exam Topic 2)
Which of the following are the MAIN reasons why a systems administrator would install security patches in a staging environment before the patches are applied to the production server? (Select two.)

A. To prevent server availability issues
B. To verify the appropriate patch is being installed
C. To generate a new baseline hash after patching
D. To allow users to test functionality
E. To ensure users are trained on new functionality

Answer: AD

NEW QUESTION 190
- (Exam Topic 2)
AChief Information Officer (CIO) drafts an agreement between the organization and its employees. The agreement outlines ramifications for releasing information without consent and/or approvals. Which of the following BEST describes this type of agreement?

A. ISA
B. NDA
C. MOU
D. SLA

Answer: B

NEW QUESTION 191
- (Exam Topic 2)
An organization’s primary datacenter is experiencing a two-day outage due to an HVAC malfunction. The node located in the datacenter has lost power and is no longer operational, impacting the ability of all users to connect to the alternate datacenter. Which of the following BIA concepts BEST represents the risk described in this scenario?

A. SPoF
B. RTO
C. MTBF
D. MTTR

Answer: A

NEW QUESTION 192
- (Exam Topic 2)
A security engineer is configuring a wireless network that must support mutual authentication of the wireless client and the authentication server before users provide credentials. The wireless network must also support authentication with usernames and passwords. Which of the following authentication protocols MUST the security engineer select?

A. EAP-FAST
B. EAP-TLS
C. PEAP
D. EAP

Answer: C

NEW QUESTION 193
- (Exam Topic 2)
A network administrator wants to ensure that users do not connect any unauthorized devices to the company network. Each desk needs to connect a VoIP phone and computer. Which of the following is the BEST way to accomplish this?

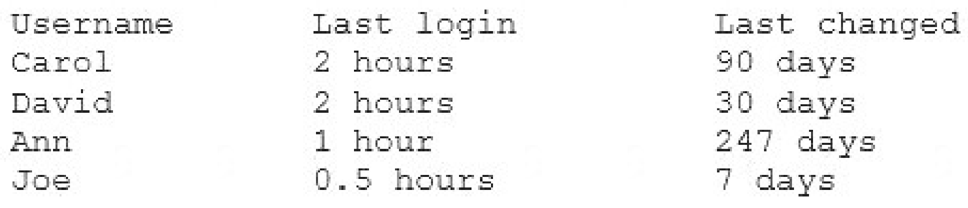
A. Enforce authentication for network devices
B. Configure the phones on one VLAN, and computers on another
C. Enable and configure port channels
D. Make users sign an Acceptable use Agreement

Answer: A

NEW QUESTION 196
- (Exam Topic 2)
A company’s AUP requires:

- Passwords must meet complexity requirements.
- Passwords are changed at least once every six months.
- Passwords must be at least eight characters long.

An auditor is reviewing the following report:



```
Username        Last login          Last changed
Carol           2 hours             90 days
David           2 hours             30 days
Ann             1 hour              247 days
Joe             0.5 hours           7 days
```

Which of the following controls should the auditor recommend to enforce the AUP?

A. Account lockout thresholds
B. Account recovery
C. Password expiration
D. Prohibit password reuse

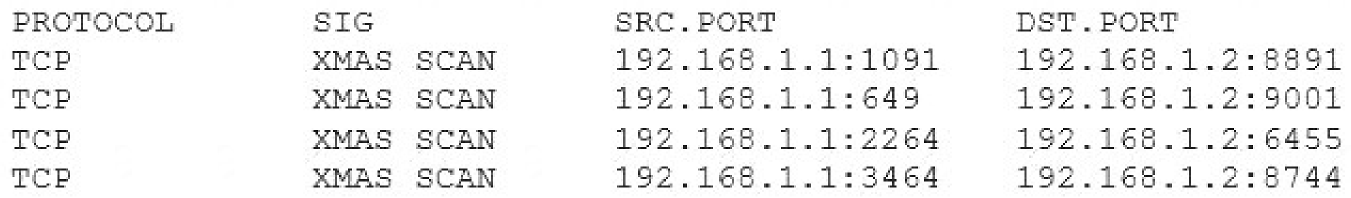
Answer: C

NEW QUESTION 199
- (Exam Topic 2)
A technician has installed new vulnerability scanner software on a server that is joined to the company domain. The vulnerability scanner is able to provide visibility over the patch posture of all company's clients. Which of the following is being used?

A. Gray box vulnerability testing
B. Passive scan
C. Credentialed scan
D. Bypassing security controls

Answer: A

NEW QUESTION 201
- (Exam Topic 2)
A security analyst has received the following alert snippet from the HIDS appliance:



```
PROTOCOL        SIG            SRC.PORT             DST.PORT
TCP             XMAS SCAN      192.168.1.1:1091     192.168.1.2:8891
TCP             XMAS SCAN      192.168.1.1:649      192.168.1.2:9001
TCP             XMAS SCAN      192.168.1.1:2264     192.168.1.2:6455
TCP             XMAS SCAN      192.168.1.1:3464     192.168.1.2:8744
```

Given the above logs, which of the following is the cause of the attack?

A. The TCP ports on destination are all open
B. FIN, URG, and PSH flags are set in the packet header
C. TCP MSS is configured improperly
D. There is improper Layer 2 segmentation

Answer: B

NEW QUESTION 202
- (Exam Topic 2)
An application developer is designing an application involving secure transports from one service to another that will pass over port 80 for a request.
Which of the following secure protocols is the developer MOST likely to use?

A. FTPS
B. SFTP
C. SSL
D. LDAPS
E. SSH

Answer: C

NEW QUESTION 206
- (Exam Topic 2)
A security administrator is trying to encrypt communication. For which of the following reasons should administrator take advantage of the Subject Alternative Name (SAM) attribute of a certificate?

A. It can protect multiple domains
B. It provides extended site validation
C. It does not require a trusted certificate authority
D. It protects unlimited subdomains

Answer: B

NEW QUESTION 208
- (Exam Topic 2)
A company was recently audited by a third party. The audit revealed the company's network devices were transferring files in the clear. Which of the following protocols should the company use to transfer files?

A. HTTPS
B. LDAPS
C. SCP
D. SNMPv3

Answer: C

NEW QUESTION 213
- (Exam Topic 2)
A new firewall has been places into service at an organization. However, a configuration has not been entered on the firewall. Employees on the network segment covered by the new firewall report they are unable to access the network. Which of the following steps should be completed to BEST resolve the issue?

A. The firewall should be configured to prevent user traffic form matching the implicit deny rule.
B. The firewall should be configured with access lists to allow inbound and outbound traffic.
C. The firewall should be configured with port security to allow traffic.
D. The firewall should be configured to include an explicit deny rule.

Answer: A

NEW QUESTION 217
- (Exam Topic 2)
A user of the wireless network is unable to gain access to the network. The symptoms are:
1.) Unable to connect to both internal and Internet resources
2.) The wireless icon shows connectivity but has no network access
The wireless network is WPA2 Enterprise and users must be a member of the wireless security group to authenticate.
Which of the following is the MOST likely cause of the connectivity issues?

A. The wireless signal is not strong enough
B. A remote DDoS attack against the RADIUS server is taking place
C. The user's laptop only supports WPA and WEP
D. The DHCP scope is full
E. The dynamic encryption key did not update while the user was offline

Answer: A

NEW QUESTION 220
- (Exam Topic 2)
A security analyst accesses corporate web pages and inputs random data in the forms. The response received includes the type of database used and SQL commands that the database accepts. Which of the following should the security analyst use to prevent this vulnerability?

A. Application fuzzing
B. Error handling
C. Input validation
D. Pointer dereference

Answer: C

NEW QUESTION 225
- (Exam Topic 2)
An administrator has concerns regarding the traveling sales team who works primarily from smart phones. Given the sensitive nature of their work, which of the following would BEST prevent access to the data in case of loss or theft?

A. Enable screensaver locks when the phones are not in use to prevent unauthorized access
B. Configure the smart phones so that the stored data can be destroyed from a centralized location
C. Configure the smart phones so that all data is saved to removable media and kept separate from the device
D. Enable GPS tracking on all smart phones so that they can be quickly located and recovered

Answer: B

NEW QUESTION 230
- (Exam Topic 2)
A user is presented with the following items during the new-hire onboarding process:
-Laptop
-Secure USB drive
-Hardware OTP token
-External high-capacity HDD
-Password complexity policy
-Acceptable use policy
-HASP key
-Cable lock
Which of the following is one component of multifactor authentication?

A. Secure USB drive
B. Cable lock
C. Hardware OTP token
D. HASP key

Answer: C

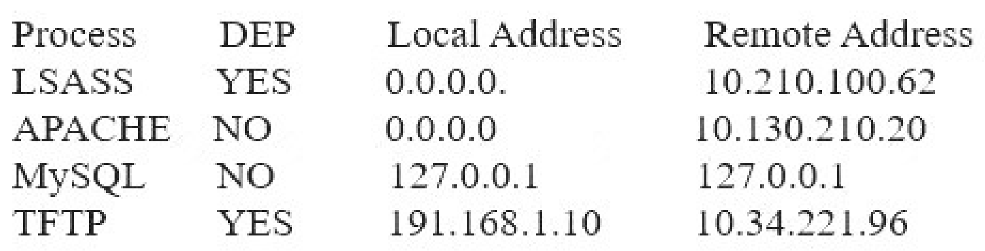
NEW QUESTION 231
- (Exam Topic 2)
A security analyst receives an alert from a WAF with the following payload: var data= “<test test test>” ++ <../../../../../../etc/passwd>”
Which of the following types of attacks is this?

A. Cross-site request forgery

B. Buffer overflow
C. SQL injection
D. JavaScript data insertion
E. Firewall evasion script

Answer: D

NEW QUESTION 234
- (Exam Topic 2)
A systems administrator is reviewing the following information from a compromised server:



Process	DEP	Local Address	Remote Address
LSASS	YES	0.0.0.0.	10.210.100.62
APACHE	NO	0.0.0.0	10.130.210.20
MySQL	NO	127.0.0.1	127.0.0.1
TFTP	YES	191.168.1.10	10.34.221.96

Given the above information, which of the following processes was MOST likely exploited via a remote buffer overflow attack?

A. Apache
B. LSASS
C. MySQL
D. TFTP

Answer: A

NEW QUESTION 239
- (Exam Topic 2)
Which of the following vulnerability types would the type of hacker known as a script kiddie be MOST dangerous against?

A. Passwords written on the bottom of a keyboard
B. Unpatched exploitable Internet-facing services
C. Unencrypted backup tapes
D. Misplaced hardware token

Answer: B

NEW QUESTION 241
- (Exam Topic 2)
As part of the SDLC, a third party is hired to perform a penetration test. The third party will have access to the source code, integration tests, and network diagrams. Which of the following BEST describes the assessment being performed?

A. Black box
B. Regression
C. White box
D. Fuzzing

Answer: C

NEW QUESTION 246
- (Exam Topic 3)
An organization is working with a cloud services provider to transition critical business applications to a hybrid cloud environment. The organization retains sensitive customer data and wants to ensure the provider has sufficient administrative and logical controls in place to protect its data. In which of the following documents would this concern MOST likely be addressed?

A. Service level agreement
B. Interconnection security agreement
C. Non-disclosure agreement
D. Business process analysis

Answer: A

NEW QUESTION 250
- (Exam Topic 3)
A company is planning to encrypt the files in several sensitive directories of a file server with a symmetric key. Which of the following could be used?

A. RSA
B. TwoFish
C. Diffie-Helman
D. NTLMv2
E. RIPEMD

Answer: B

NEW QUESTION 253
- (Exam Topic 3)
A system administrator is configuring a site-to-site VPN tunnel. Which of the following should be configured on the VPN concentrator during the IKE phase?

A. RIPEMD
B. ECDHE
C. Diffie-Hellman
D. HTTPS

Answer: C

NEW QUESTION 254
- (Exam Topic 3)
An organization is moving its human resources system to a cloud services provider.
The company plans to continue using internal usernames and passwords with the service provider, but the security manager does not want the service provider to have a company of the passwords. Which of the following options meets all of these requirements?

A. Two-factor authentication
B. Account and password synchronization
C. Smartcards with PINS
D. Federated authentication

Answer: D

NEW QUESTION 258
- (Exam Topic 3)
A system administrator wants to implement an internal communication system that will allow employees to send encrypted messages to each other. The system must also support non- repudiation. Which of the following implements all these requirements?

A. Bcrypt
B. Blowfish
C. PGP
D. SHA

Answer: C

NEW QUESTION 259
- (Exam Topic 3)
In an effort to reduce data storage requirements, some company devices to hash every file and eliminate duplicates. The data processing routines are time sensitive so the hashing algorithm is fast and supported on a wide range of systems. Which of the following algorithms is BEST suited for this purpose?

A. MD5
B. SHA
C. RIPEMD
D. AES

Answer: B

NEW QUESTION 261
- (Exam Topic 3)
A security administrator needs to implement a system that detects possible intrusions based upon a vendor provided list. Which of the following BEST describes this type of IDS?

A. Signature based
B. Heuristic
C. Anomaly-based
D. Behavior-based

Answer: A

NEW QUESTION 265
- (Exam Topic 3)
After correctly configuring a new wireless enabled thermostat to control the temperature of the company's meeting room, Joe, a network administrator determines that the thermostat is not connecting to the internetbased control system. Joe verifies that the thermostat received the expected network parameters and it is associated with the AP. Additionally, the other wireless mobile devices connected to the same wireless network are functioning properly. The network administrator verified that the thermostat works when tested at his residence. Which of the following is the MOST likely reason the thermostat is not connecting to the internet?

A. The company implements a captive portal
B. The thermostat is using the incorrect encryption algorithm
C. the WPA2 shared likely is incorrect
D. The company's DHCP server scope is full

Answer: C

NEW QUESTION 268
- (Exam Topic 3)
Which of the following should be used to implement voice encryption?

A. SSLv3
B. VDSL
C. SRTP
D. VoIP

Answer: C

NEW QUESTION 270
- (Exam Topic 3)
Joe a computer forensic technician responds to an active compromise of a database server. Joe first collects information in memory, then collects network traffic and finally conducts an image of the hard drive. Which of the following procedures did Joe follow?

A. Order of volatility
B. Chain of custody
C. Recovery procedure
D. Incident isolation

Answer: A

NEW QUESTION 271
- (Exam Topic 3)
A business has recently deployed laptops to all sales employees. The laptops will be used primarily from home offices and while traveling, and a high amount of wireless mobile use is expected. To protect the laptops while connected to untrusted wireless networks, which of the following would be the BEST method for reducing the risk of having the laptops compromised?

A. MAC filtering
B. Virtualization
C. OS hardening
D. Application white-listing

Answer: C

NEW QUESTION 273
- (Exam Topic 3)
A new intern in the purchasing department requires read access to shared documents. Permissions are normally controlled through a group called "Purchasing", however, the purchasing group permissions allow write access. Which of the following would be the BEST course of action?

A. Modify all the shared files with read only permissions for the intern.
B. Create a new group that has only read permissions for the files.
C. Remove all permissions for the shared files.
D. Add the intern to the "Purchasing" group.

Answer: B

NEW QUESTION 278
- (Exam Topic 3)
Malware that changes its binary pattern on specific dates at specific times to avoid detection is known as a (n):

A. armored virus
B. logic bomb
C. polymorphic virus
D. Trojan

Answer: C

NEW QUESTION 279
- (Exam Topic 3)
The process of applying a salt and cryptographic hash to a password then repeating the process many times is known as which of the following?

A. Collision resistance
B. Rainbow table
C. Key stretching
D. Brute force attack

Answer: C

NEW QUESTION 282
- (Exam Topic 3)
An attacker uses a network sniffer to capture the packets of a transaction that adds $20 to a gift card. The attacker then user a function of the sniffer to push those packets back onto the network again, adding another $20 to the gift card. This can be done many times. Which of the following describes this type of attack?

A. Integer overflow attack
B. Smurf attack
C. Replay attack
D. Buffer overflow attack
E. Cross-site scripting attack

Answer: C

NEW QUESTION 287
- (Exam Topic 3)
An employee uses RDP to connect back to the office network. If RDP is misconfigured, which of the following security exposures would this lead to?

A. A virus on the administrator's desktop would be able to sniff the administrator's username and password.
B. Result in an attacker being able to phish the employee's username and password.
C. A social engineering attack could occur, resulting in the employee's password being extracted.
D. A man in the middle attack could occur, resulting the employee's username and password being captured.

Answer: D

NEW QUESTION 289
- (Exam Topic 3)
A product manager is concerned about continuing operations at a facility located in a region undergoing significant political unrest. After consulting with senior management, a decision is made to suspend operations at the facility until the situation stabilizes.
Which of the following risk management strategies BEST describes management's response?

A. Deterrence
B. Mitigation
C. Avoidance
D. Acceptance

Answer: C

NEW QUESTION 294
- (Exam Topic 3)
During a data breach cleanup, it is discovered that not all of the sites involved have the necessary data wiping tools. The necessary tools are quickly distributed to the required technicians, but when should this problem BEST be revisited?

A. Reporting
B. Preparation
C. Mitigation
D. Lessons Learned

Answer: D

NEW QUESTION 298
- (Exam Topic 3)
Anne, the Chief Executive Officer (CEO), has reported that she is getting multiple telephone calls from someone claiming to be from the helpdesk. The caller is asking to verify her network authentication credentials because her computer is broadcasting across the network. This is MOST likely which of the following types of attacks?

A. Vishing
B. Impersonation
C. Spim
D. Scareware

Answer: A

NEW QUESTION 300
- (Exam Topic 3)
A software developer wants to ensure that the application is verifying that a key is valid before establishing SSL connections with random remote hosts on the Internet. Which of the following should be used in the code? (Select TWO.)

A. Escrowed keys
B. SSL symmetric encryption key
C. Software code private key
D. Remote server public key
E. OCSP

Answer: CE

NEW QUESTION 305
- (Exam Topic 3)
A security administrator wishes to implement a secure a method of file transfer when communicating with outside organizations. Which of the following protocols would BEST facilitate secure file transfers? (Select TWO)

A. SCP
B. TFTP
C. SNMP
D. FTP
E. SMTP
F. FTPS

Answer: AF

NEW QUESTION 307
- (Exam Topic 3)
Joe is exchanging encrypted email with another party. Joe encrypts the initial email with a key. When Joe receives a response, he is unable to decrypt the response with the same key he used initially. Which of the following would explain the situation?

A. An ephemeral key was used for one of the messages
B. A stream cipher was used for the initial email; a block cipher was used for the reply
C. Out-of-band key exchange has taken place
D. Asymmetric encryption is being used

Answer: D

Explanation:
Asymmetric algorithms use two keys to encrypt and decrypt datA. These asymmetric keys are referred to as the public key and the private key. The sender uses the public key to encrypt a message, and the receiver uses the private key to decrypt the message; what one key does, the other one undoes.

NEW QUESTION 309
- (Exam Topic 3)
While performing surveillance activities, an attacker determines that an organization is using 802.1X to secure LAN access. Which of the following attack mechanisms can the attacker utilize to bypass the identified network security?

A. MAC spoofing
B. Pharming
C. Xmas attack
D. ARP poisoning

Answer: A

NEW QUESTION 311
- (Exam Topic 3)
A penetration testing is preparing for a client engagement in which the tester must provide data that proves and validates the scanning tools' results. Which of the following is the best method for collecting this information?

A. Set up the scanning system's firewall to permit and log all outbound connections
B. Use a protocol analyzer to log all pertinent network traffic
C. Configure network flow data logging on all scanning system
D. Enable debug level logging on the scanning system and all scanning tools used.

Answer: A

NEW QUESTION 316
- (Exam Topic 3)
Which of the following attack types is being carried out where a target is being sent unsolicited messages via Bluetooth?

A. War chalking
B. Bluejacking
C. Bluesnarfing
D. Rogue tethering

Answer: B

Explanation:
Bluejacking is the sending of unsolicited messages over Bluetooth to Bluetooth-enabled devices such as mobile phones, PDAs or laptop computers, sending a vCard which typically contains a message in the name field (i.e., for bluedating or bluechat) to another Bluetooth-enabled device via the OBEX protocol.

NEW QUESTION 318
- (Exam Topic 3)
A company wants to host a publicly available server that performs the following functions:

- Evaluates MX record lookup
- Can perform authenticated requests for A and AAA records
- Uses RRSIG

Which of the following should the company use to fulfill the above requirements?

A. DNSSEC
B. SFTP
C. nslookup
D. dig
E. LDAPS

Answer: A

Explanation:
DNS Security Extensions (DNSSEC) provides, among other things, cryptographic authenticity of responses using Resource Record Signatures (RRSIG) and authenticated denial of existence using Next-Secure (NSEC) and Hashed-NSEC records (NSEC3).

NEW QUESTION 322
- (Exam Topic 3)
A Security Officer on a military base needs to encrypt several smart phones that will be going into the field. Which of the following encryption solutions should be deployed in this situation?

A. Elliptic curve
B. One-time pad
C. 3DES
D. AES-256

Answer: D

NEW QUESTION 327
- (Exam Topic 3)
Recently several employees were victims of a phishing email that appeared to originate from the company president. The email claimed the employees would be disciplined if they did not click on a malicious link in the message. Which of the following principles of social engineering made this attack successful?

A. Authority
B. Spamming
C. Social proof
D. Scarcity

Answer: A

NEW QUESTION 331
- (Exam Topic 3)
A technician must configure a firewall to block external DNS traffic from entering a network. Which of the following ports should they block on the firewall?

A. 53
B. 110
C. 143
D. 443

Answer: A

NEW QUESTION 336
- (Exam Topic 3)
Joe a website administrator believes he owns the intellectual property for a company invention and has been replacing image files on the company's public facing website in the DMZ. Joe is using steganography to hide stolen data. Which of the following controls can be implemented to mitigate this type of inside threat?

A. Digital signatures
B. File integrity monitoring
C. Access controls
D. Change management
E. Stateful inspection firewall

Answer: B

NEW QUESTION 339
- (Exam Topic 3)
A supervisor in your organization was demoted on Friday afternoon. The supervisor had the ability to modify the contents of a confidential database, as well as other managerial permissions. On Monday morning, the database administrator reported that log files indicated that several records were missing from the database. Which of the following risk mitigation strategies should have been implemented when the supervisor was demoted?

A. Incident management
B. Routine auditing
C. IT governance
D. Monthly user rights reviews

Answer: D

NEW QUESTION 344
- (Exam Topic 3)
The chief Security Officer (CSO) has reported a rise in data loss but no break ins have occurred. By doing which of the following is the CSO most likely to reduce the number of incidents?

A. Implement protected distribution
B. Empty additional firewalls
C. Conduct security awareness training
D. Install perimeter barricades

Answer: C

NEW QUESTION 349
- (Exam Topic 3)
An information system owner has supplied a new requirement to the development team that calls for increased non-repudiation within the application. After undergoing several audits, the owner determined that current levels of non-repudiation were insufficient.

Which of the following capabilities would be MOST appropriate to consider implementing is response to the new requirement?

A. Transitive trust
B. Symmetric encryption
C. Two-factor authentication
D. Digital signatures
E. One-time passwords

Answer: D

NEW QUESTION 352
- (Exam Topic 3)
An administrator intends to configure an IPSec solution that provides ESP with integrity protection, but not confidentiality protection. Which of the following AES modes of operation would meet this integrity-only requirement?

A. HMAC
B. PCBC
C. CBC
D. GCM
E. CFB

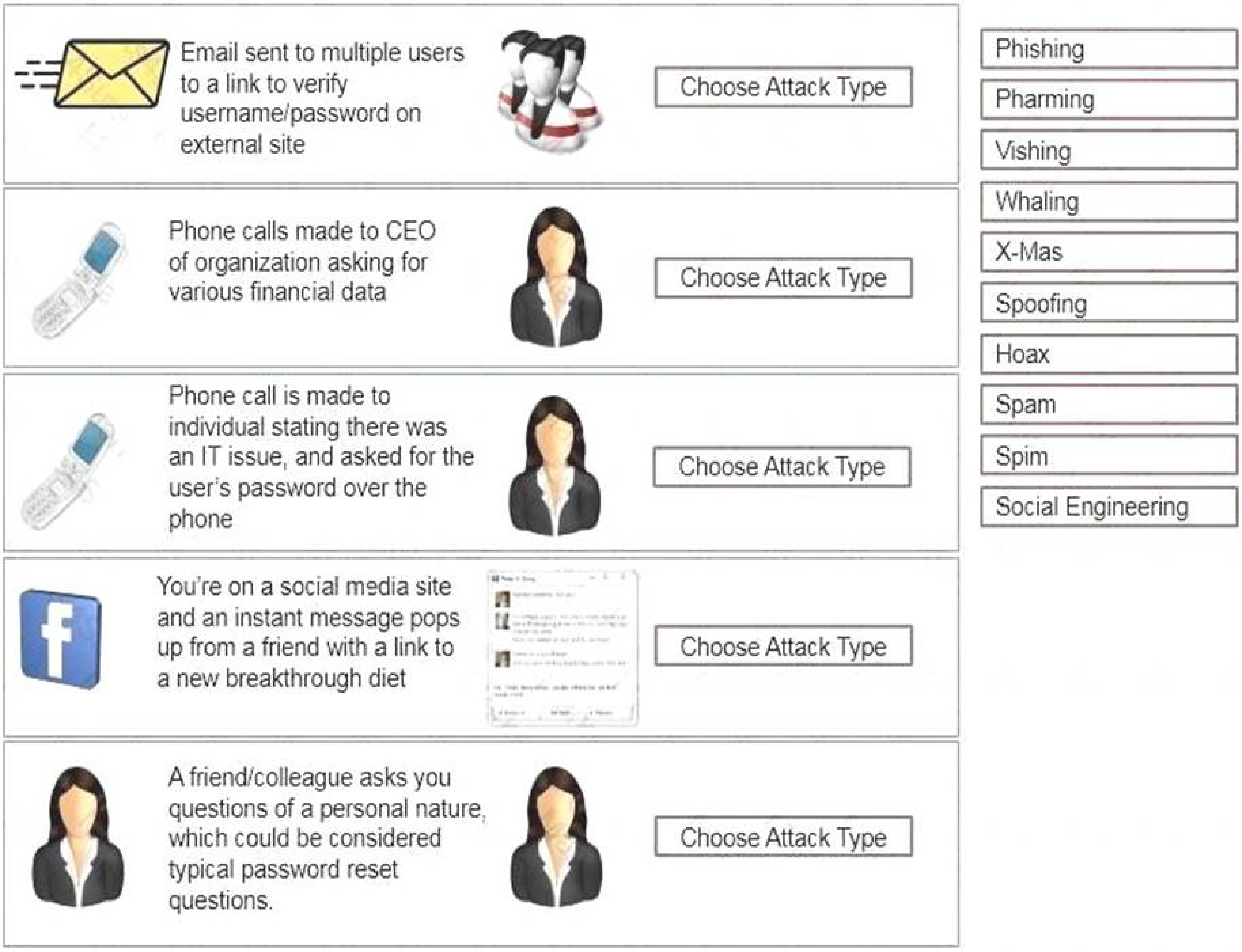
Answer: A

NEW QUESTION 353
- (Exam Topic 3)
The data backup window has expanded into the morning hours and has begun to affect production users. The main bottleneck in the process is the time it takes to replicate the backups to separate severs at the offsite data center. Which of the following uses of deduplication could be implemented to reduce the backup window?

A. Implement deduplication at the network level between the two locations
B. Implement deduplication on the storage array to reduce the amount of drive space needed
C. Implement deduplication on the server storage to reduce the data backed up
D. Implement deduplication on both the local and remote servers

Answer: B

NEW QUESTION 358
- (Exam Topic 3)
Task: Determine the types of attacks below by selecting an option from the dropdown list.



Email sent to multiple users to a link to verify username/password on external site — Choose Attack Type

Phone calls made to CEO of organization asking for various financial data — Choose Attack Type

Phone call is made to individual stating there was an IT issue, and asked for the user's password over the phone — Choose Attack Type

You're on a social media site and an instant message pops up from a friend with a link to a new breakthrough diet — Choose Attack Type

A friend/colleague asks you questions of a personal nature, which could be considered typical password reset questions. — Choose Attack Type

Phishing
Pharming
Vishing
Whaling
X-Mas
Spoofing
Hoax
Spam
Spim
Social Engineering

A. Mastered
B. Not Mastered

Answer: A

Explanation:
A: Phishing is the act of sending an email to a user falsely claiming to be an established legitimate enterprise in an attempt to scam the user into surrendering private information that will be used for identity theft.
Phishing email will direct the user to visit a website where they are asked to update personal information, such as a password, credit card, social security, or bank account numbers, that the legitimate organization already has. The website, however, is bogus and set up only to steal the information the user enters on the page.
B: Whaling is a specific kind of malicious hacking within the more general category of phishing, which involves hunting for data that can be used by the hacker. In general, phishing efforts are focused on collecting personal data about users. In whaling, the targets are high-ranking bankers, executives or others in powerful positions or job titles. Hackers who engage in whaling often describe these efforts as "reeling in a big fish," applying a familiar metaphor to the process of scouring technologies for loopholes and opportunities for data theft. Those who are engaged in whaling may, for example, hack into specific networks where these powerful individuals work or store sensitive data. They may also set up keylogging or other malware on a work station associated with one of these executives. There are many ways that hackers can pursue whaling, leading C- level or top-level executives in business and government to stay vigilant about the possibility of cyber threats.
C: Vishing is the act of using the telephone in an attempt to scam the user into surrendering private
information that will be used for identity theft. The scammer usually pretends to be a legitimate business, and fools the victim into thinking he or she will profit.
D: SPIM is a term sometimes used to refer to spam over IM (Instant Messaging). It's also called just spam, instant spam, or IM marketing. No matter what the name, it consists of unwanted messages transmitted through some form of instant messaging service, which can include Short Message Service (SMS)
E: Social engineering is a non-technical method of intrusion hackers use that relies heavily on human interaction and often involves tricking people into breaking normal security procedures. It is one of the greatest threats that organizations today encounter. A social engineer runs what used to be called a "con game." For example, a person using social engineering to break into a computer network might try to gain the confidence of an authorized user and get them to reveal information that compromises the network's security. Social engineers often rely on the natural helpfulness of people as well as on their weaknesses. They might, for example, call the authorized employee with some kind of urgent problem that requires immediate network access. Appealing to vanity, appealing to authority, appealing to greed, and old-fashioned eavesdropping are other typical social engineering techniques.
http://www.webopedia.com/TERM/P/phishing.html http://www.techopedia.com/definition/28643/whaling http://www.webopedia.com/TERM/V/vishing.html
http://searchsecurity.techtarget.com/definition/social-engineering

NEW QUESTION 359
- (Exam Topic 3)
The firewall administrator is adding a new certificate for the company's remote access solution. The solution requires that the uploaded file contain the entire certificate chain for the certificate to load properly. The administrator loads the company certificate and the root CA certificate into the file. The file upload is rejected. Which of the following is required to complete the certificate chain?

A. Certificate revocation list
B. Intermediate authority
C. Recovery agent
D. Root of trust

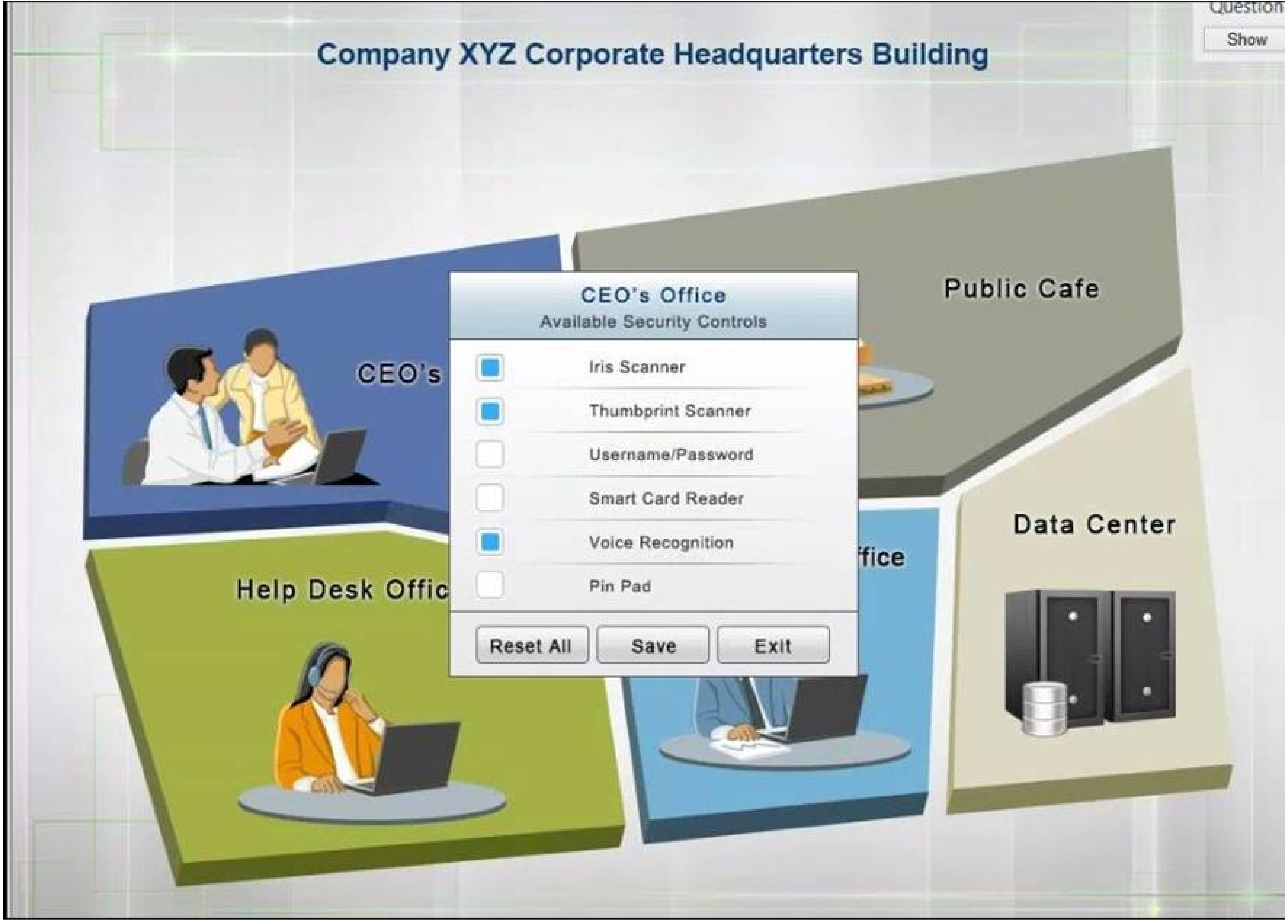
Answer: B

NEW QUESTION 362
- (Exam Topic 3)
A security administrator is evaluating three different services: radius, diameter, and Kerberos. Which of the following is a feature that is UNIQUE to Kerberos?

A. It provides authentication services
B. It uses tickets to identify authenticated users
C. It provides single sign-on capability
D. It uses XML for cross-platform interoperability

Answer: B

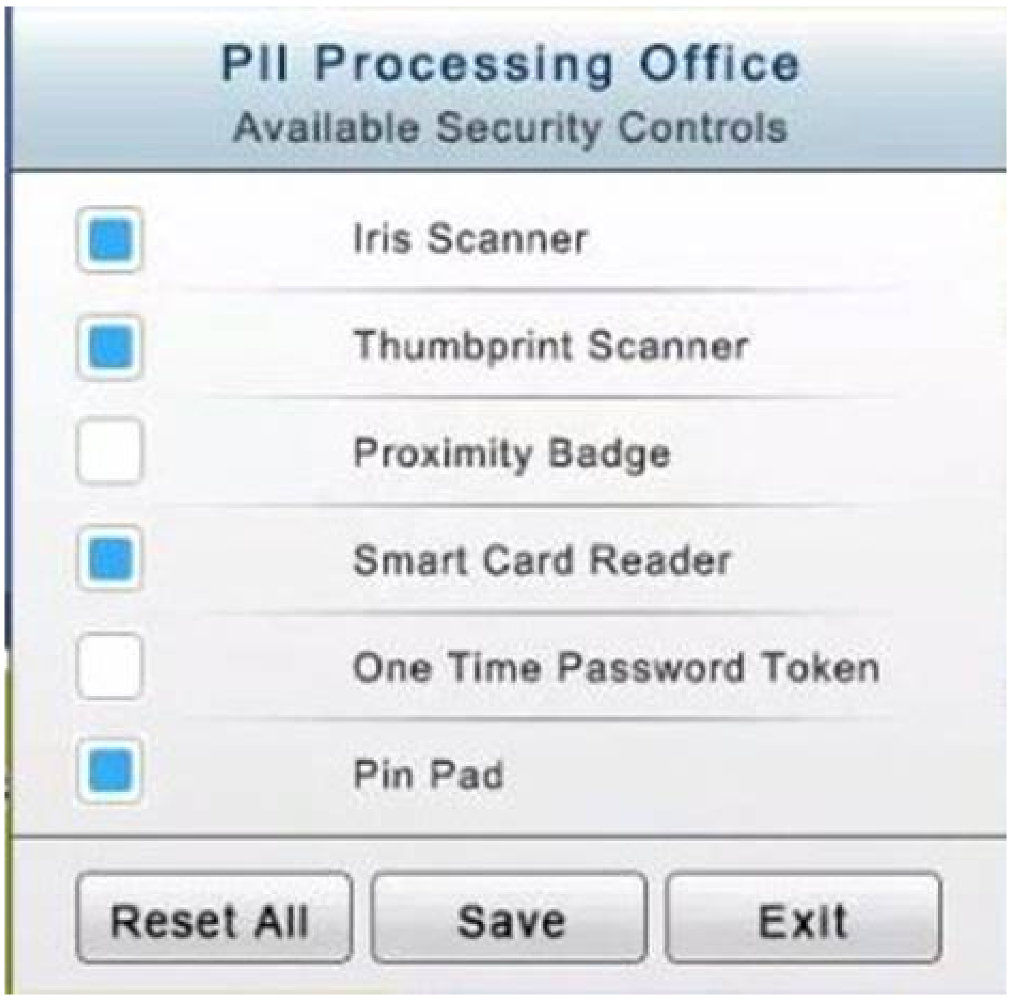
NEW QUESTION 363
- (Exam Topic 3)
You have just received some room and WiFi access control recommendations from a security consulting company. Click on each building to bring up available security controls. Please implement the following requirements:
The Chief Executive Officer's (CEO) office had multiple redundant security measures installed on the door to the office. Remove unnecessary redundancies to deploy three-factor authentication, while retaining the expensive iris render.
The Public Cafe has wireless available to customers. You need to secure the WAP with WPA and place a passphrase on the customer receipts.
In the Data Center you need to include authentication from the "something you know" category and take advantage of the existing smartcard reader on the door.
In the Help Desk Office, you need to require single factor authentication through the use of physical tokens given to guests by the receptionist.
The PII Office has redundant security measures in place. You need to eliminate the redundancy while maintaining three-factor authentication and retaining the more expensive controls.



CEO's Office
Available Security Controls

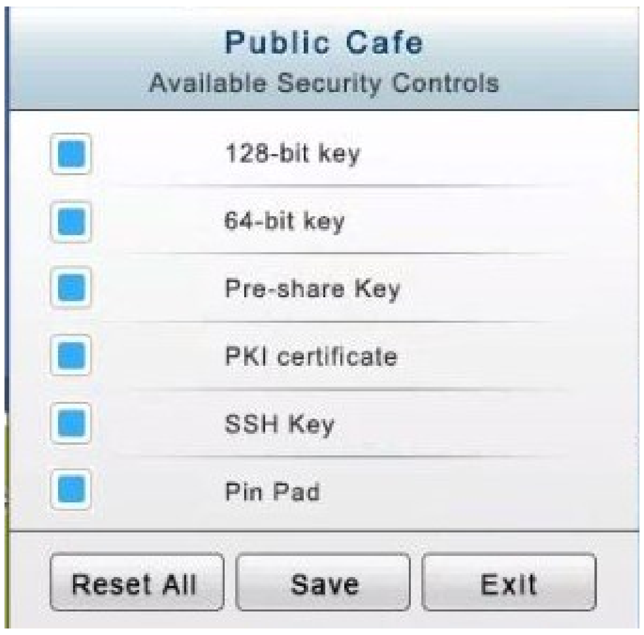
☑ Iris Scanner
☑ Thumbprint Scanner
□ Username/Password
□ Smart Card Reader
☑ Voice Recognition
□ Pin Pad

Instructions: The original security controls for each office can be reset at any time by selecting the Reset button. Once you have met the above requirements for each office, select the Save button. When you have completed the entire simulation, please select the Done button to submit. Once the simulation is submitted, please select the Next button to continue.



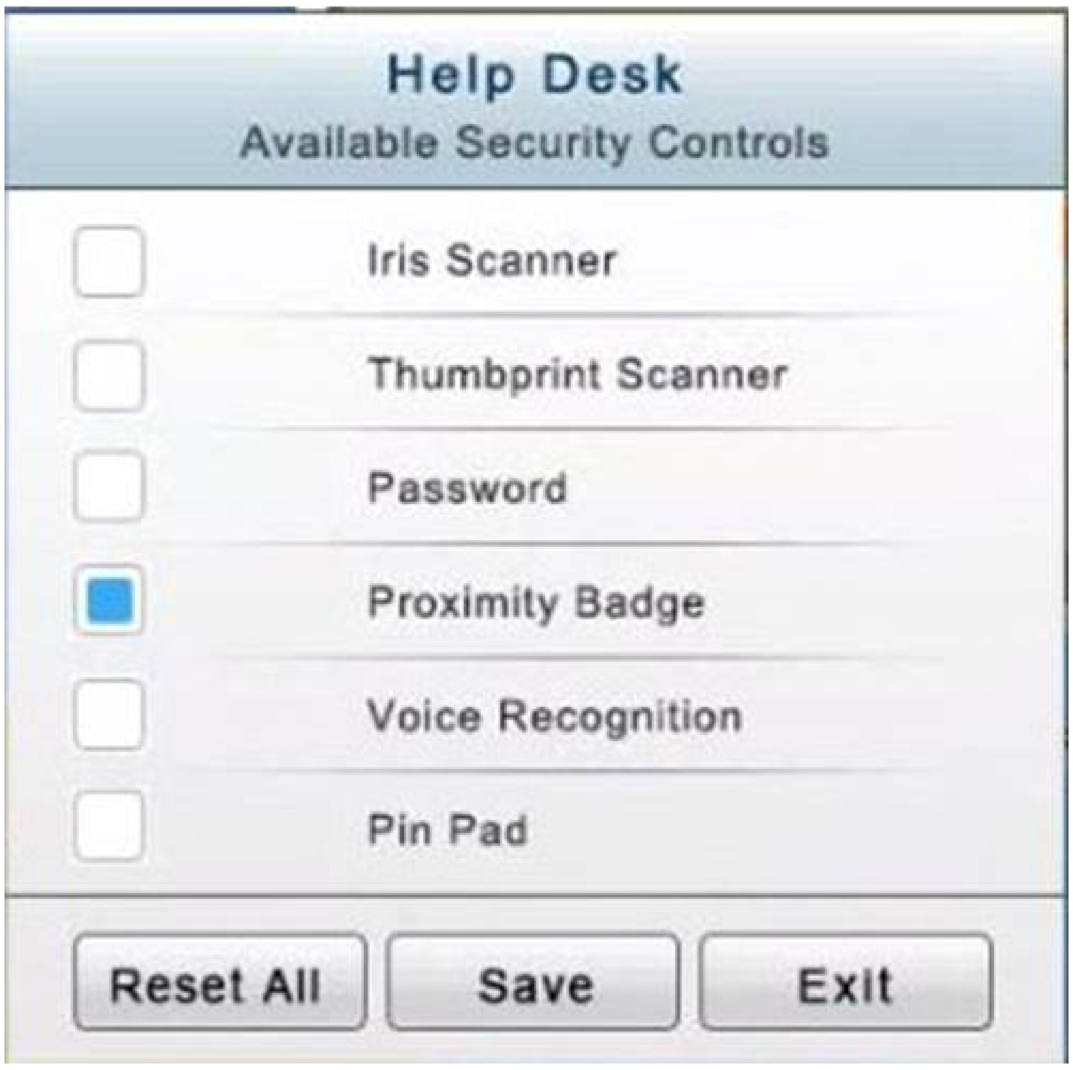
PII Processing Office
Available Security Controls

- ☑ Iris Scanner
- ☑ Thumbprint Scanner
- ☐ Proximity Badge
- ☑ Smart Card Reader
- ☐ One Time Password Token
- ☑ Pin Pad



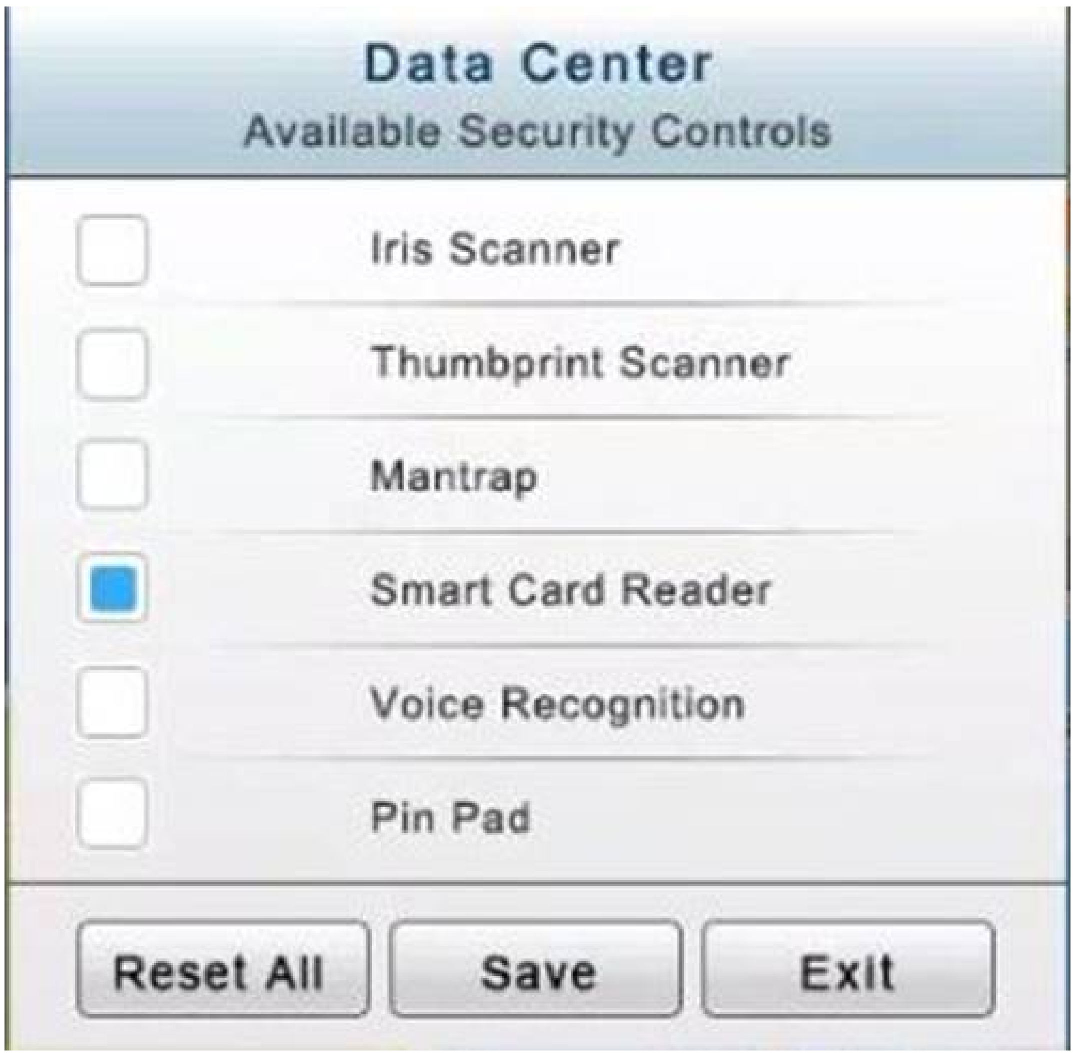
Public Cafe
Available Security Controls

- ☑ 128-bit key
- ☑ 64-bit key
- ☑ Pre-share Key
- ☑ PKI certificate
- ☑ SSH Key
- ☑ Pin Pad



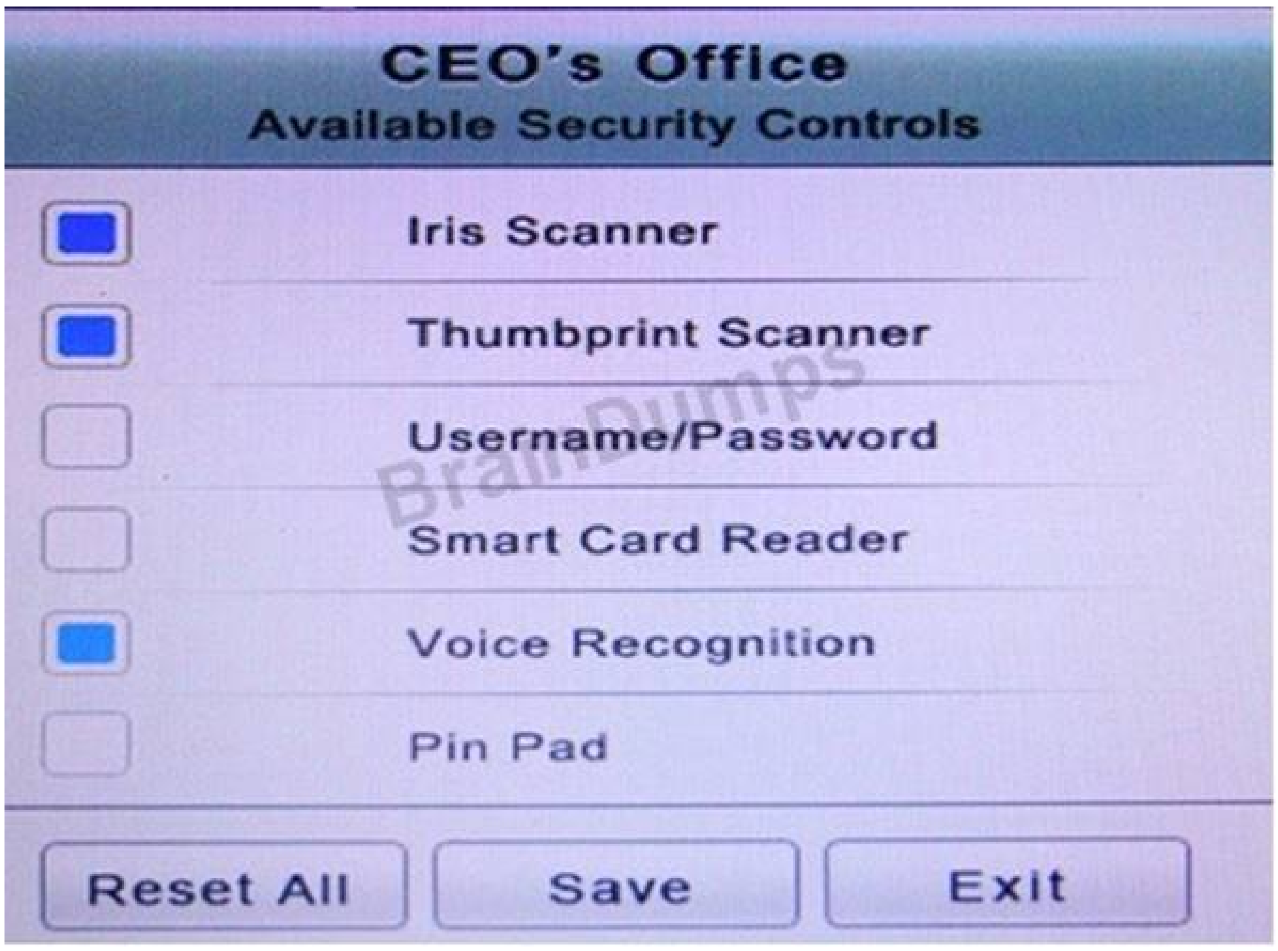
Help Desk
Available Security Controls

- ☐ Iris Scanner
- ☐ Thumbprint Scanner
- ☐ Password
- ☑ Proximity Badge
- ☐ Voice Recognition
- ☐ Pin Pad



Data Center
Available Security Controls

☐ Iris Scanner
☐ Thumbprint Scanner
☐ Mantrap
☑ Smart Card Reader
☐ Voice Recognition
☐ Pin Pad



CEO's Office
Available Security Controls

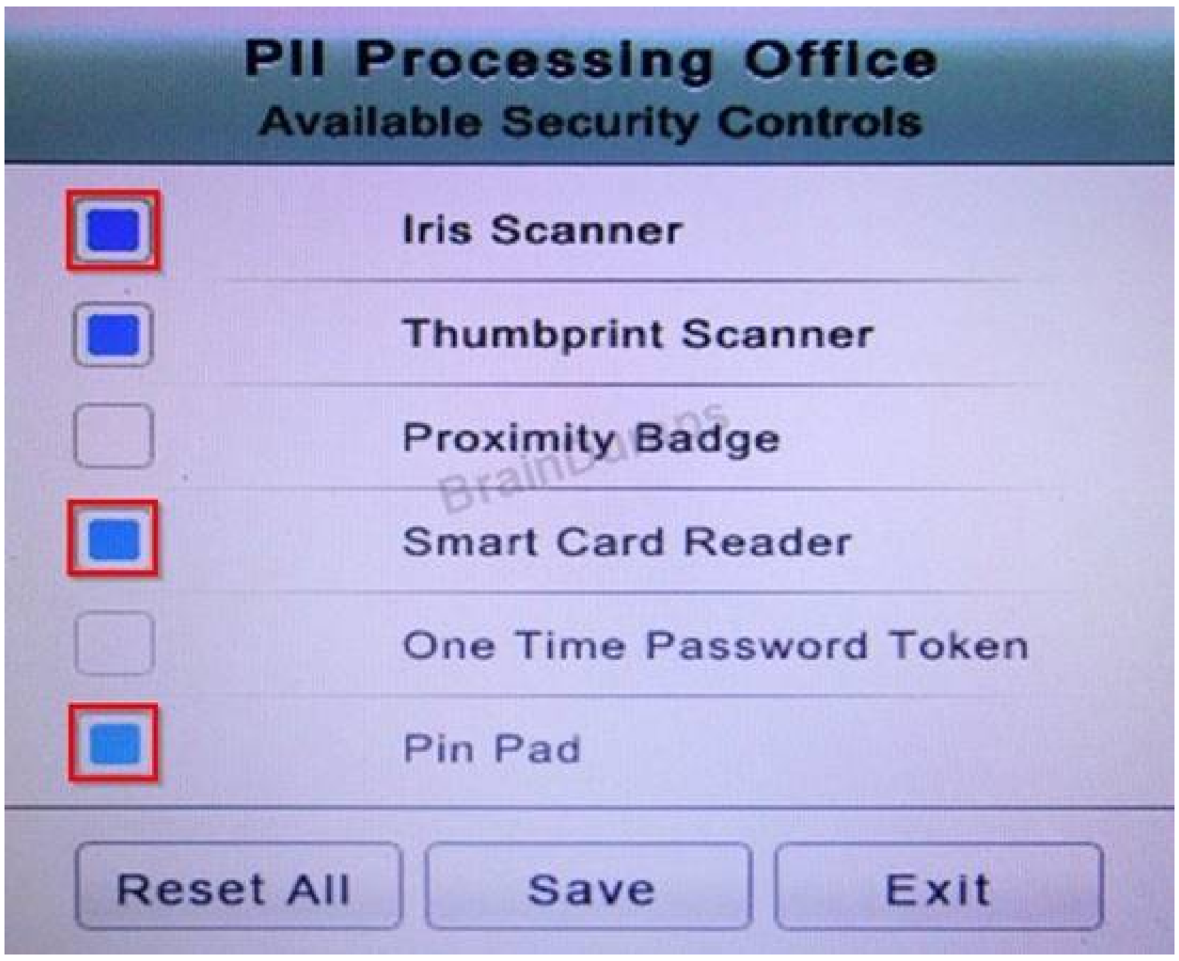
☑ Iris Scanner
☑ Thumbprint Scanner
☐ Username/Password
☐ Smart Card Reader
☑ Voice Recognition
☐ Pin Pad

A. Mastered
B. Not Mastered

Answer: A

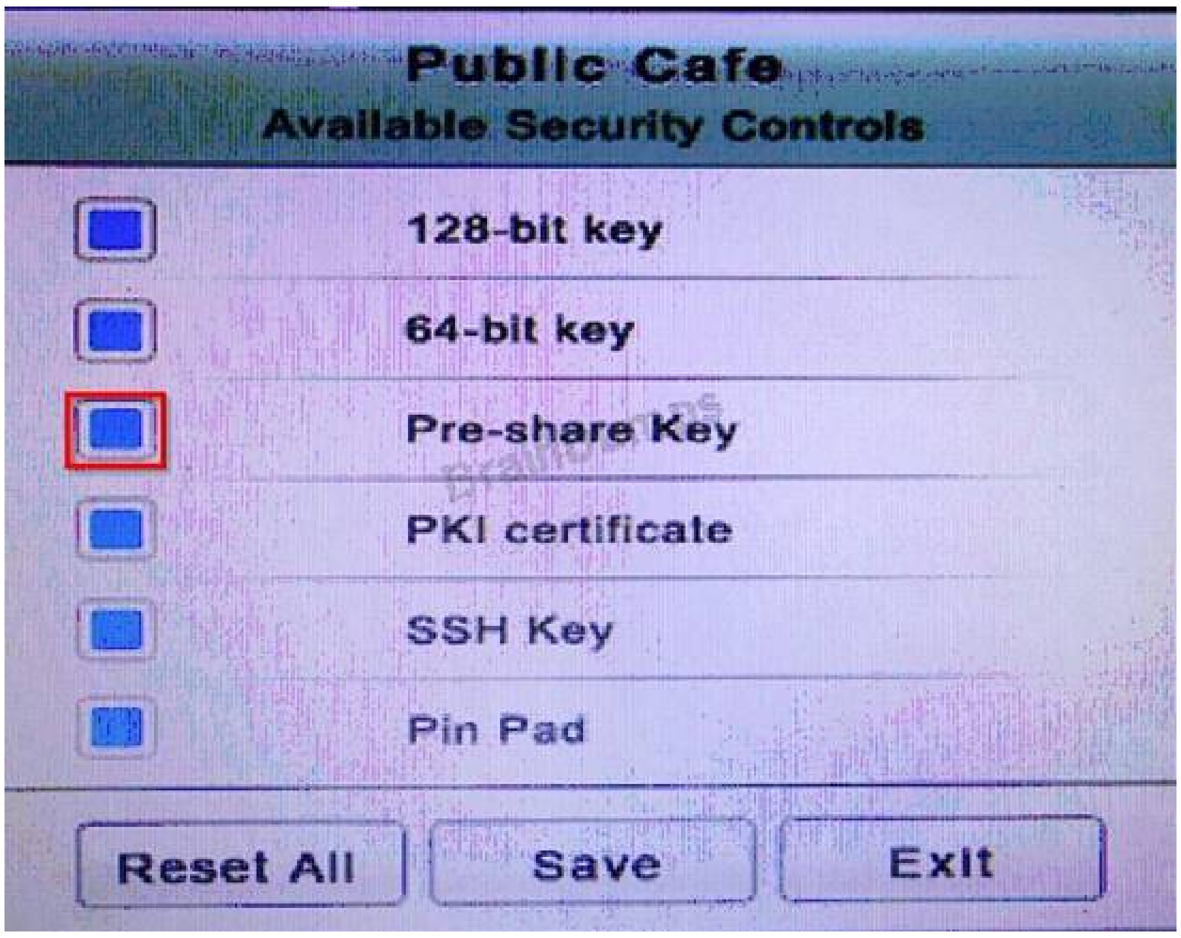
Explanation:

Solution as



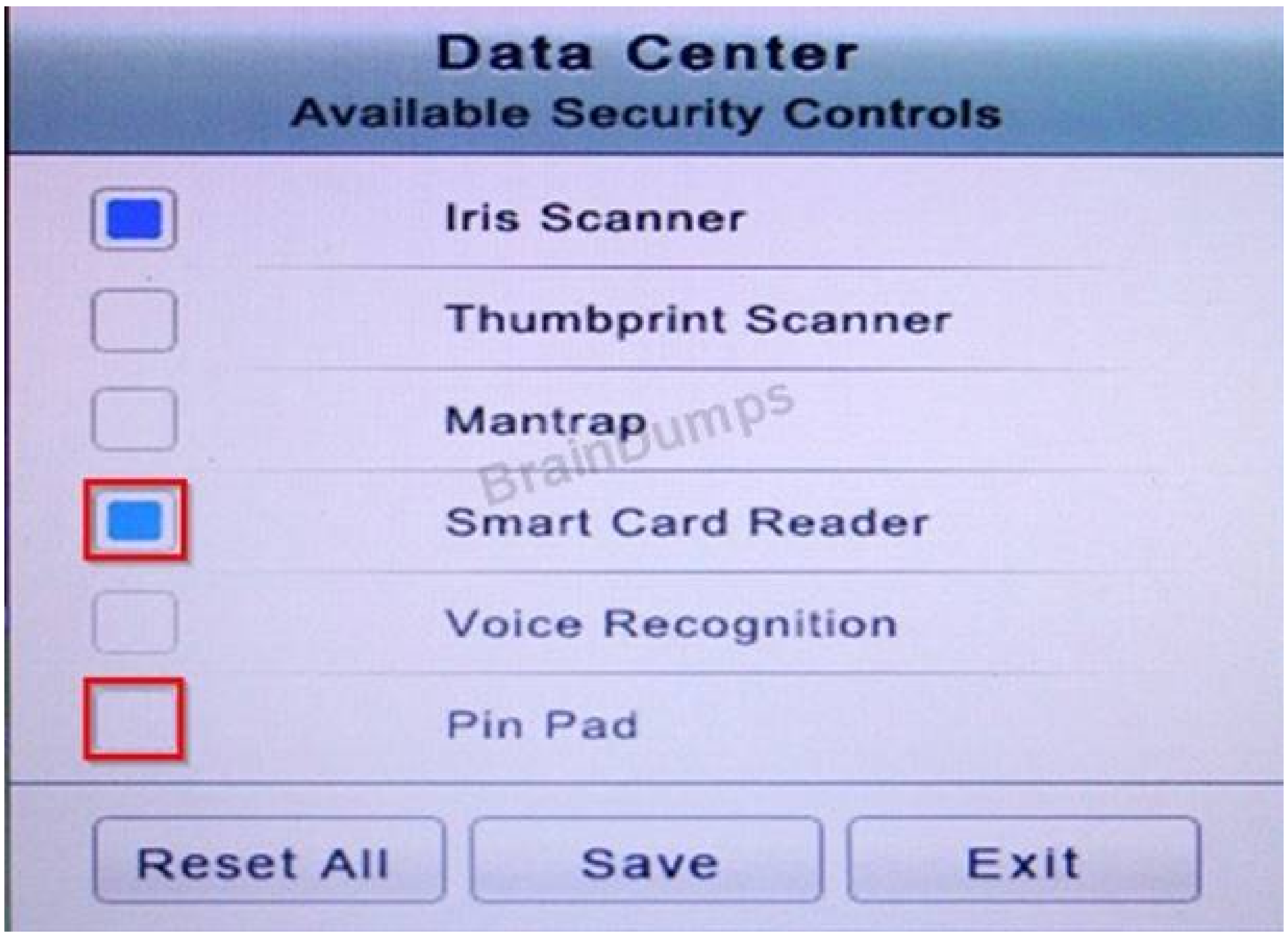
PII Processing Office
Available Security Controls

- ☑ Iris Scanner
- ☑ Thumbprint Scanner
- ☐ Proximity Badge
- ☑ Smart Card Reader
- ☐ One Time Password Token
- ☑ Pin Pad



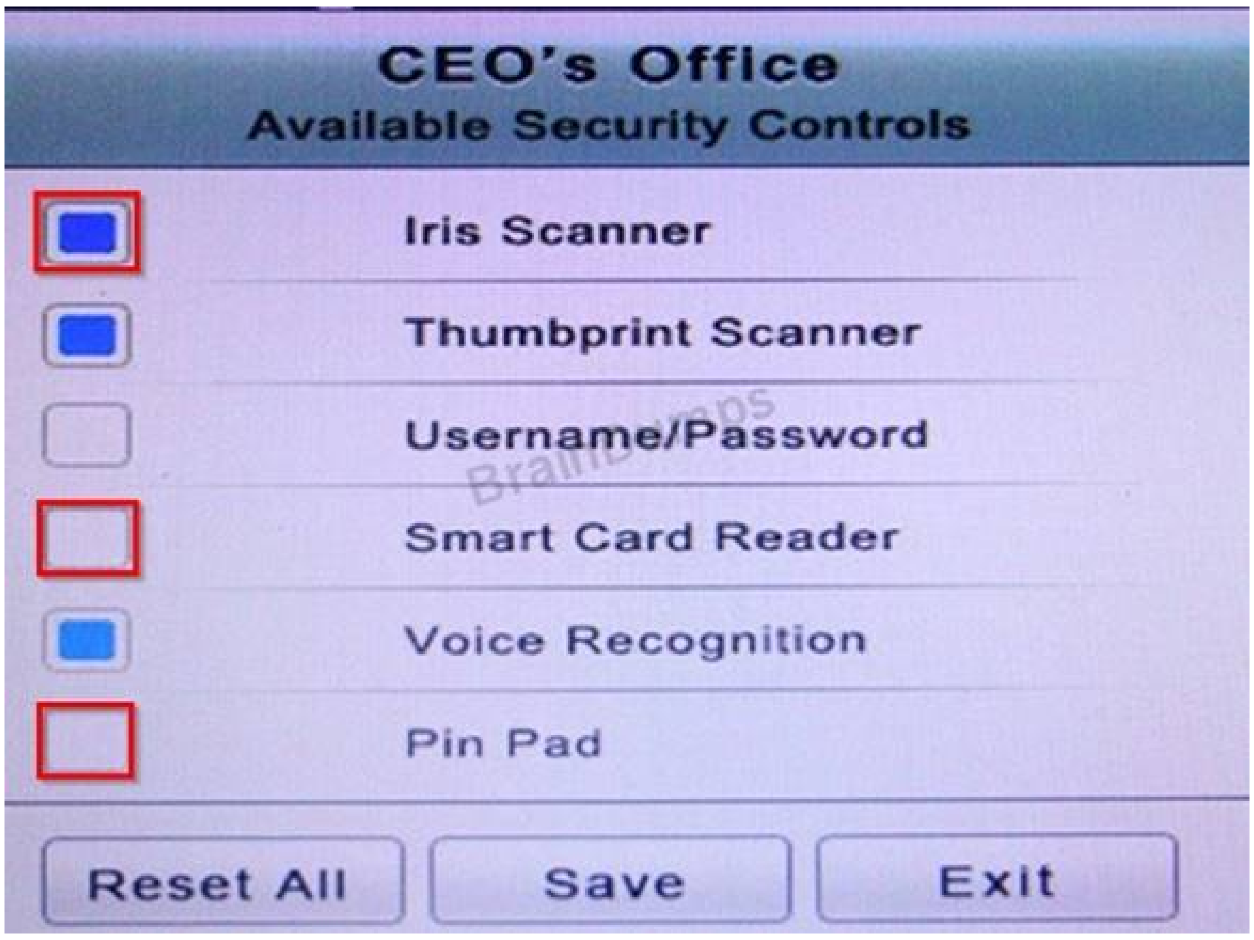
Public Cafe
Available Security Controls

- ☑ 128-bit key
- ☑ 64-bit key
- ☑ Pre-share Key
- ☑ PKI certificate
- ☑ SSH Key
- ☑ Pin Pad



Data Center
Available Security Controls

- ☑ Iris Scanner
- ☐ Thumbprint Scanner
- ☐ Mantrap
- ☑ Smart Card Reader
- ☐ Voice Recognition
- ☐ Pin Pad



CEO's Office
Available Security Controls

☑ Iris Scanner
☑ Thumbprint Scanner
□ Username/Password
□ Smart Card Reader
☑ Voice Recognition
□ Pin Pad

NEW QUESTION 364
- (Exam Topic 3)
A network administrator is attempting to troubleshoot an issue regarding certificates on a secure website. During the troubleshooting process, the network administrator notices that the web gateway proxy on the local network has signed all of the certificates on the local machine. Which of the following describes the type of attack the proxy has been legitimately programmed to perform?

A. Transitive access
B. Spoofing
C. Man-in-the-middle
D. Replay

Answer: C

NEW QUESTION 367
- (Exam Topic 3)
Which of the following is the proper way to quantify the total monetary damage resulting from an exploited vulnerability?

A. Calculate the ALE
B. Calculate the ARO
C. Calculate the MTBF
D. Calculate the TCO

Answer: A

NEW QUESTION 371
- (Exam Topic 3)
After a merger, it was determined that several individuals could perform the tasks of a network administrator in the merged organization. Which of the following should have been performed to ensure that employees have proper access?

A. Time-of-day restrictions
B. Change management
C. Periodic auditing of user credentials
D. User rights and permission review

Answer: D

NEW QUESTION 373
- (Exam Topic 3)
A security administrator is tasked with conducting an assessment made to establish the baseline security posture of the corporate IT infrastructure. The assessment must report actual flaws and weaknesses in the infrastructure. Due to the expense of hiring outside consultants, the testing must be performed using in-house or cheaply available resource. There cannot be a possibility of any requirement being damaged in the test.
Which of the following has the administrator been tasked to perform?

A. Risk transference
B. Penetration test
C. Threat assessment
D. Vulnerability assessment

Answer: D

NEW QUESTION 376
- (Exam Topic 4)
In determining when it may be necessary to perform a credentialed scan against a system instead of a noncredentialed scan, which of the following requirements is MOST likely to influence this decision?

A. The scanner must be able to enumerate the host OS of devices scanned.
B. The scanner must be able to footprint the network.
C. The scanner must be able to check for open ports with listening services.
D. The scanner must be able to audit file system permissions

Answer: D

NEW QUESTION 381
- (Exam Topic 4)
A security administrator wants to implement a logon script that will prevent MITM attacks on the local LAN. Which of the following commands should the security administrator implement within the script to accomplish this task?

A. arp - s 192.168.1.1 00-3a-d1-fa-b1-06
B. dig - x@192.168.1.1 mypc.comptia.com
C. nmap - A - T4 192.168.1.1
D. tcpdump - lnv host 192.168.1.1 or either 00:3a:d1:fa:b1:06

Answer: A

NEW QUESTION 383
- (Exam Topic 4)
To determine the ALE of a particular risk, which of the following must be calculated? (Select two.)

A. ARO
B. ROI
C. RPO
D. SLE
E. RTO

Answer: AD

NEW QUESTION 385
- (Exam Topic 4)
Which of the following is the appropriate network structure used to protect servers and services that must be provided to external clients without completely eliminating access for internal users?

A. NAC
B. VLAN
C. DMZ
D. Subnet

Answer: C

NEW QUESTION 389
- (Exam Topic 4)
Which of the following are used to increase the computing time it takes to brute force a password using an offline attack? (Select TWO)

A. XOR
B. PBKDF2
C. bcrypt
D. HMAC
E. RIPEMD

Answer: BC

NEW QUESTION 394
- (Exam Topic 4)
Due to regulatory requirements, a security analyst must implement full drive encryption on a Windows file server. Which of the following should the analyst implement on the system to BEST meet this requirement? (Choose two.)

A. Enable and configure EFS on the file system.
B. Ensure the hardware supports TPM, and enable it in the BIOS.
C. Ensure the hardware supports VT-X, and enable it in the BIOS.
D. Enable and configure BitLocker on the drives.
E. Enable and configure DFS across the file system.

Answer: BD

NEW QUESTION 396
- (Exam Topic 4)
Ann, a security administrator, wants to ensure credentials are encrypted in transit when implementing a RADIUS server for SSO. Which of the following are needed given these requirements? (Select TWO)

A. Public key
B. Shared key
C. Elliptic curve
D. MD5
E. Private key
F. DES

Answer: AE

NEW QUESTION 400
- (Exam Topic 4)
A penetration tester harvests potential usernames from a social networking site. The penetration tester then uses social engineering to attempt to obtain associated passwords to gain unauthorized access to shares on a network server.
Which of the following methods is the penetration tester MOST likely using?

A. Escalation of privilege
B. SQL injection
C. Active reconnaissance
D. Proxy server

Answer: C

NEW QUESTION 403
- (Exam Topic 4)
Which of the following is commonly done as part of a vulnerability scan?

A. Exploiting misconfigured applications
B. Cracking employee passwords
C. Sending phishing emails to employees
D. Identifying unpatched workstations

Answer: D

NEW QUESTION 408
- (Exam Topic 4)
Users in a corporation currently authenticate with a username and password. A security administrator wishes to implement two-factor authentication to improve security.
Which of the following authentication methods should be deployed to achieve this goal?

A. PIN
B. Security QUESTION NO:
C. Smart card
D. Passphrase
E. CAPTCHA

Answer: C

NEW QUESTION 411
- (Exam Topic 4)
A global gaming console manufacturer is launching a new gaming platform to its customers. Which of the following controls reduces the risk created by malicious gaming customers attempting to circumvent control by way of modifying consoles?

A. Firmware version control
B. Manual software upgrades
C. Vulnerability scanning
D. Automatic updates
E. Network segmentation
F. Application firewalls

Answer: AD

NEW QUESTION 415
- (Exam Topic 4)
A consultant has been tasked to assess a client's network. The client reports frequent network outages. Upon viewing the spanning tree configuration, the consultant notices that an old and law performing edge switch on the network has been elected to be the root bridge. Which of the following explains this scenario?

A. The switch also serves as the DHCP server
B. The switch has the lowest MAC address
C. The switch has spanning tree loop protection enabled
D. The switch has the fastest uplink port

Answer: C

NEW QUESTION 416
- (Exam Topic 4)
A company is evaluating cloud providers to reduce the cost of its internal IT operations. The company's aging systems are unable to keep up with customer demand. Which of the following cloud models will the company MOST likely select?

A. PaaS
B. SaaS
C. IaaS
D. BaaS

Answer: C

NEW QUESTION 417
- (Exam Topic 4)
Ann, a college professor, was recently reprimanded for posting disparaging remarks re-grading her coworkers on a web site. Ann stated that she was not aware that the public was able to view her remakes. Which of the following security-related trainings could have made Ann aware of the repercussions of her actions?

A. Data Labeling and disposal
B. Use of social networking
C. Use of P2P networking
D. Role-based training

Answer: B

NEW QUESTION 422
- (Exam Topic 4)
A malicious attacker has intercepted HTTP traffic and inserted an ASCII line that sets the referrer URL. Which of the following is the attacker most likely utilizing?

A. Header manipulation
B. Cookie hijacking
C. Cross-site scripting
D. Xml injection

Answer: A

NEW QUESTION 423
- (Exam Topic 4)
Company XYZ has decided to make use of a cloud-based service that requires mutual, certificate- based authentication with its users. The company uses SSL-inspecting IDS at its network boundary and is concerned about the confidentiality of the mutual authentication. Which of the following model prevents the IDS from capturing credentials used to authenticate users to the new service or keys to decrypt that communication?

A. Use of OATH between the user and the service and attestation from the company domain
B. Use of active directory federation between the company and the cloud-based service
C. Use of smartcards that store x.509 keys, signed by a global CA
D. Use of a third-party, SAML-based authentication service for attestation

Answer: B

NEW QUESTION 425
- (Exam Topic 4)
An organization recently moved its custom web applications to the cloud, and it is obtaining managed services of the back-end environment as part of its subscription. Which of the following types of services is this company now using?

A. SaaS
B. CASB
C. IaaS
D. PaaS

Answer: B

Explanation:
Security Broker (CASB) gives you both visibility into your entire cloud stack and the security automation tool your IT team needs.

NEW QUESTION 430
- (Exam Topic 4)
Many employees are receiving email messages similar to the one shown below:
From IT department To employee Subject email quota exceeded Pease click on the following link http:www.website.info/email.php?quota=1Gb and provide your username and password to increase your email quotA. Upon reviewing other similar emails, the security administrator realized that all the phishing URLs have the following common elements; they all use HTTP, they all come from .info domains, and they all contain the same URI. Which of the following should the security administrator configure on the corporate content filter to prevent users from accessing the phishing URL, while at the same time minimizing false positives?

A. BLOCKhttp://www.*.info/ "
B. DROPhttp:// "website.info/email.php?*
C. Redirecthttp://www,*.Info/email.php?quota=*TOhttp://company.com/corporate_polict.html
D. DENYhttp://*.info/email.php?quota=1Gb

Answer: D

NEW QUESTION 431
- (Exam Topic 4)
Which of the following allows an auditor to test proprietary-software compiled code for security flaws?

A. Fuzzing
B. Static review
C. Code signing
D. Regression testing

Answer: A

NEW QUESTION 436
- (Exam Topic 4)
An in-house penetration tester has been asked to evade a new DLP system. The tester plans to exfiltrate data through steganography. Discovery of which of the following would help catch the tester in the act?

A. Abnormally high numbers of outgoing instant messages that contain obfuscated text
B. Large-capacity USB drives on the tester's desk with encrypted zip files
C. Outgoing emails containing unusually large image files
D. Unusual SFTP connections to a consumer IP address

Answer: C

NEW QUESTION 437
- (Exam Topic 4)
A company recently replaced its unsecure email server with a cloud-based email and collaboration solution that is managed and insured by a third party. Which of the following actions did the company take regarding risks related to its email and collaboration services?

A. Transference
B. Acceptance
C. Mitigation
D. Deterrence

Answer: A

NEW QUESTION 441
- (Exam Topic 4)
The POODLE attack is an MITM exploit that affects:

A. TLS1.0 with CBC mode cipher
B. SSLv2.0 with CBC mode cipher
C. SSLv3.0 with CBC mode cipher
D. SSLv3.0 with ECB mode cipher

Answer: C

Explanation:
A flaw was found in the way SSL 3.0 handled padding bytes when decrypting messages encrypted using block ciphers in cipher block chaining (CBC) mode.
How To Protect your Server Against the POODLE SSLv3 Vulnerability On October 14th, 2014, a vulnerability in version 3 of the SSL encryption protocol was disclosed. This vulnerability, dubbed POODLE (Padding Oracle On Downgraded Legacy Encryption), allows an attacker to read information encrypted with this version of the protocol in plain text using a man-in-the-middle attack.
Although SSLv3 is an older version of the protocol which is mainly obsolete, many pieces of software still fall back on SSLv3 if better encryption options are not available. More importantly, it is possible for an attacker to force SSLv3 connections if it is an available alternative for both participants attempting a connection.
The POODLE vulnerability affects any services or clients that make it possible to communicate using SSLv3. Because this is a flaw with the protocol design, and not an implementation issue, every piece of software that uses SSLv3 is vulnerable.
To find out more information about the vulnerability, consult the CVE information found at CVE-2014-3566. What is the POODLE Vulnerability?
The POODLE vulnerability is a weakness in version 3 of the SSL protocol that allows an attacker in a man-inthe-middle context to decipher the plain text content of an SSLv3 encrypted message.
Who is Affected by this Vulnerability?
This vulnerability affects every piece of software that can be coerced into communicating with SSLv3. This means that any software that implements a fallback mechanism that includes SSLv3 support is vulnerable and can be exploited.
Some common pieces of software that may be affected are web browsers, web servers, VPN servers, mail servers, etc.
How Does It Work?
In short, the POODLE vulnerability exists because the SSLv3 protocol does not adequately check the padding bytes that are sent with encrypted messages. Since these cannot be verified by the receiving party, an attacker can replace these and pass them on to the intended destination. When done in a specific way, the modified payload will potentially be accepted by the recipient without complaint.
An average of once out of every 256 requests will accepted at the destination, allowing the attacker to decrypt a single byte. This can be repeated easily in order to progressively decrypt additional bytes. Any attacker able to repeatedly force a participant to resend data using this protocol can break the encryption in a very short amount of time.
How Can I Protect Myself?
Actions should be taken to ensure that you are not vulnerable in your roles as both a client and a server. Since encryption is usually negotiated between clients and servers, it is an issue that involves both parties.
Servers and clients should should take steps to disable SSLv3 support completely. Many applications use better encryption by default, but implement SSLv3 support as a fallback option.
This should be disabled, as a malicious user can force SSLv3 communication if both participants allow it as an acceptable method.

NEW QUESTION 444
- (Exam Topic 4)
Which of the following would allow for the QUICKEST restoration of a server into a warm recovery site in a case in which server data mirroring is not enabled?

A. Full backup
B. Incremental backup
C. Differential backup

D. Snapshot

Answer: C

NEW QUESTION 449
- (Exam Topic 4)
A security administrator receives an alert from a third-party vendor that indicates a certificate that was installed in the browser has been hijacked at the root of a small public CA. The security administrator knows there are at least four different browsers in use on more than a thousand computers in the domain worldwide. Which of the following solutions would be BEST for the security administrator to implement to most efficiently assist with this issue?

A. SSL
B. CRL
C. PKI
D. ACL

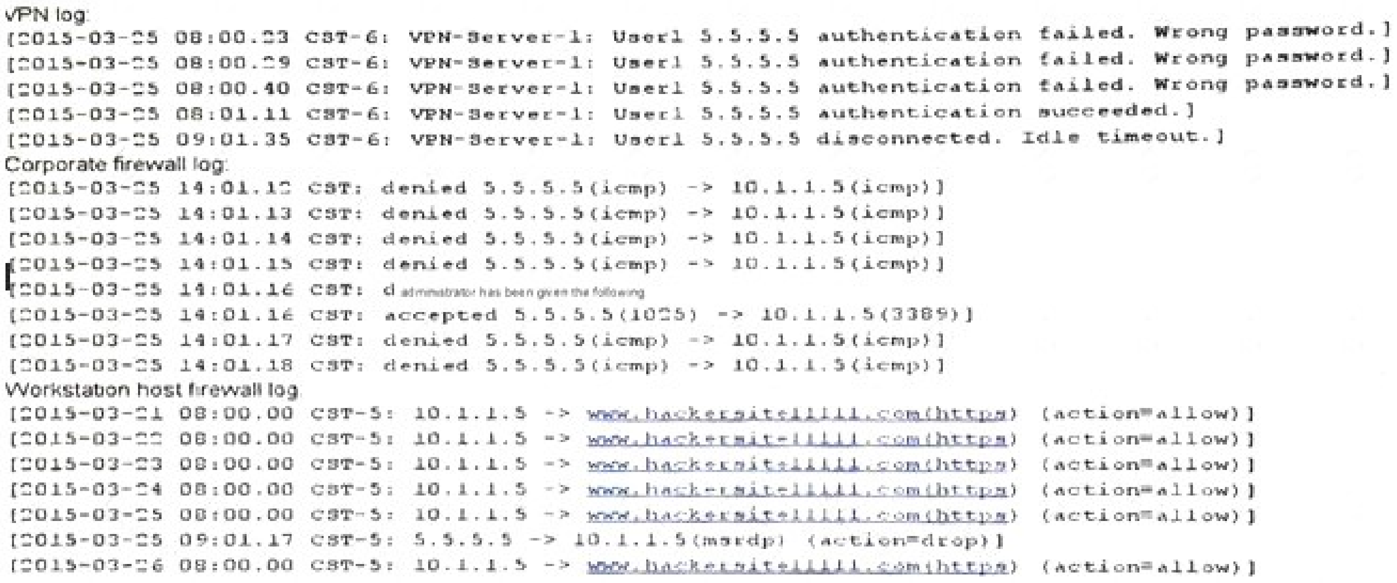
Answer: B

NEW QUESTION 451
- (Exam Topic 4)
A web developer improves client access to the company's REST API. Authentication needs to be tokenized but not expose the client's password. Which of the following methods would BEST meet the developer's requirements?

A. SAML
B. LDAP
C. OAuth
D. Shibboleth

Answer: A

NEW QUESTION 452
- (Exam Topic 4)
A remote user (User1) is unable to reach a newly provisioned corporate windows workstation. The system administrator has been given the following log files from the VPN, corporate firewall and workstation host.



```
VPN log:
[2015-03-25 08:00.23 CST-6: VPN-Server-1: User1 5.5.5.5 authentication failed. Wrong password.]
[2015-03-25 08:00.29 CST-6: VPN-Server-1: User1 5.5.5.5 authentication failed. Wrong password.]
[2015-03-25 08:00.40 CST-6: VPN-Server-1: User1 5.5.5.5 authentication failed. Wrong password.]
[2015-03-25 08:01.11 CST-6: VPN-Server-1: User1 5.5.5.5 authentication succeeded.]
[2015-03-25 09:01.35 CST-6: VPN-Server-1: User1 5.5.5.5 disconnected. Idle timeout.]
Corporate firewall log:
[2015-03-25 14:01.12 CST: denied 5.5.5.5(icmp) -> 10.1.1.5(icmp)]
[2015-03-25 14:01.13 CST: denied 5.5.5.5(icmp) -> 10.1.1.5(icmp)]
[2015-03-25 14:01.14 CST: denied 5.5.5.5(icmp) -> 10.1.1.5(icmp)]
[2015-03-25 14:01.15 CST: denied 5.5.5.5(icmp) -> 10.1.1.5(icmp)]
[2015-03-25 14:01.16 CST: d administrator has been given the following
[2015-03-25 14:01.16 CST: accepted 5.5.5.5(1025) -> 10.1.1.5(3389)]
[2015-03-25 14:01.17 CST: denied 5.5.5.5(icmp) -> 10.1.1.5(icmp)]
[2015-03-25 14:01.18 CST: denied 5.5.5.5(icmp) -> 10.1.1.5(icmp)]
Workstation host firewall log
[2015-03-21 08:00.00 CST-5: 10.1.1.5 -> www.hackersitellll.com(https) (action=allow)]
[2015-03-22 08:00.00 CST-5: 10.1.1.5 -> www.hackersitellll.com(https) (action=allow)]
[2015-03-23 08:00.00 CST-5: 10.1.1.5 -> www.hackersitellll.com(https) (action=allow)]
[2015-03-24 08:00.00 CST-5: 10.1.1.5 -> www.hackersitellll.com(https) (action=allow)]
[2015-03-25 08:00.00 CST-5: 10.1.1.5 -> www.hackersitellll.com(https) (action=allow)]
[2015-03-25 09:01.17 CST-5: 5.5.5.5 -> 10.1.1.5(msrdp) (action=drop)]
[2015-03-26 08:00.00 CST-5: 10.1.1.5 -> www.hackersitellll.com(https) (action=allow)]
```

Which of the following is preventing the remote user from being able to access the workstation?

A. Network latency is causing remote desktop service request to time out
B. User1 has been locked out due to too many failed passwords
C. Lack of network time synchronization is causing authentication mismatches
D. The workstation has been compromised and is accessing known malware sites
E. The workstation host firewall is not allowing remote desktop connections

Answer: B

NEW QUESTION 453
- (Exam Topic 4)
During a recent audit, it was discovered that many services and desktops were missing security patches. Which of the following BEST describes the assessment that was performed to discover this issue?

A. Network mapping
B. Vulnerability scan
C. Port Scan
D. Protocol analysis

Answer: B

NEW QUESTION 456
- (Exam Topic 4)
An actor downloads and runs a program against a corporate login page. The program imports a list of usernames and passwords, looking for a successful attempt. Which of the following terms BEST describes the actor in this situation?

A. Script kiddie

B. Hacktivist
C. Cryptologist
D. Security auditor

Answer: A

NEW QUESTION 458
- (Exam Topic 4)
The help desk is receiving numerous password change alerts from users in the accounting department. These alerts occur multiple times on the same day for each of the affected users' accounts. Which of the following controls should be implemented to curtail this activity?

A. Password Reuse
B. Password complexity
C. Password History
D. Password Minimum age

Answer: D

NEW QUESTION 461
- (Exam Topic 4)
A web server, which is configured to use TLS with AES-GCM-256, SHA-384, and ECDSA, recently suffered an information loss breach. Which of the following is MOST likely the cause?

A. Insufficient key bit length
B. Weak cipher suite
C. Unauthenticated encryption method
D. Poor implementation

Answer: D

NEW QUESTION 464
- (Exam Topic 4)
An attacker captures the encrypted communication between two parties for a week, but is unable to decrypt the messages. The attacker then compromises the session key during one exchange and successfully compromises a single message. The attacker plans to use this key to decrypt previously captured and future communications, but is unable to. This is because the encryption scheme in use adheres to:

A. Asymmetric encryption
B. Out-of-band key exchange
C. Perfect forward secrecy
D. Secure key escrow

Answer: C

NEW QUESTION 465
- (Exam Topic 4)
Which of the following could help detect trespassers in a secure facility? (Select TWO)

A. Faraday cages
B. Motion-detection sensors
C. Tall, chain-link fencing
D. Security guards
E. Smart cards

Answer: BD

NEW QUESTION 468
- (Exam Topic 4)
A new hire wants to use a personally owned phone to access company resources. The new hire expresses concern about what happens to the data on the phone when they leave the company. Which of the following portions of the company's mobile device management configuration would allow the company data to be removed from the device without touching the new hire's data?

A. Asset control
B. Device access control
C. Storage lock out
D. Storage segmentation

Answer: B

NEW QUESTION 473
- (Exam Topic 4)
The administrator installs database software to encrypt each field as it is written to disk. Which of the following describes the encrypted data?

A. In-transit
B. In-use
C. Embedded
D. At-rest

Answer: B

NEW QUESTION 476
- (Exam Topic 4)
The IT department needs to prevent users from installing untested applications. Which of the following would provide the BEST solution?

A. Job rotation
B. Least privilege
C. Account lockout
D. Antivirus

Answer: B

NEW QUESTION 481
- (Exam Topic 4)
Which of the following would enhance the security of accessing data stored in the cloud? (Select TWO)

A. Block level encryption
B. SAML authentication
C. Transport encryption
D. Multifactor authentication
E. Predefined challenge QUESTION NO:s
F. Hashing

Answer: BD

NEW QUESTION 482
- (Exam Topic 4)
Which of the following penetration testing concepts is being used when an attacker uses public Internet databases to enumerate and learn more about a target?

A. Reconnaissance
B. Initial exploitation
C. Pivoting
D. Vulnerability scanning
E. White box testing

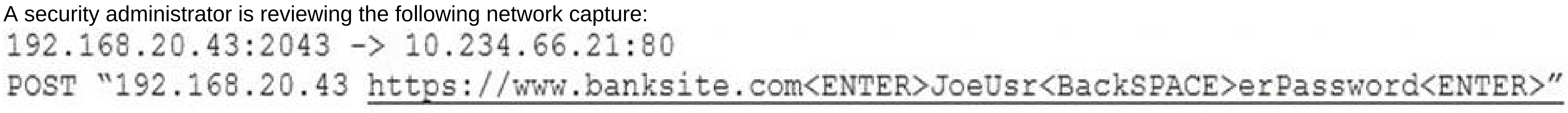
Answer: A

NEW QUESTION 487
- (Exam Topic 4)
Which of the following delineates why it is important to perform egress filtering and monitoring on Internet connected security zones of interfaces on a firewall?

A. Egress traffic is more important than ingress traffic for malware prevention
B. To rebalance the amount of outbound traffic and inbound traffic
C. Outbound traffic could be communicating to known botnet sources
D. To prevent DDoS attacks originating from external network

Answer: B

NEW QUESTION 492
- (Exam Topic 4)
A security administrator is reviewing the following network capture:



```
192.168.20.43:2043 -> 10.234.66.21:80
POST "192.168.20.43 https://www.banksite.com<ENTER>JoeUsr<BackSPACE>erPassword<ENTER>"
```

Which of the following malware is MOST likely to generate the above information?

A. Keylogger
B. Ransomware
C. Logic bomb
D. Adware

Answer: A

NEW QUESTION 496
- (Exam Topic 4)
An administrator has configured a new Linux server with the FTP service. Upon verifying that the service was configured correctly, the administrator has several users test the FTP service. Users report that they are able to connect to the FTP service and download their personal files, however, they cannot transfer new files to the server. Which of the following will most likely fix the uploading issue for the users?

A. Create an ACL to allow the FTP service write access to user directories
B. Set the Boolean selinux value to allow FTP home directory uploads
C. Reconfigure the ftp daemon to operate without utilizing the PSAV mode
D. Configure the FTP daemon to utilize PAM authentication pass through user permissions

Answer: A

NEW QUESTION 497
- (Exam Topic 4)
A security analyst captures forensic evidence from a potentially compromised system for further investigation. The evidence is documented and securely stored to FIRST:

A. maintain the chain of custody.
B. preserve the data.
C. obtain a legal hold.
D. recover data at a later time.

Answer: B

NEW QUESTION 500
- (Exam Topic 5)
Legal authorities notify a company that its network has been compromised for the second time in two years. The investigation shows the attackers were able to use the same vulnerability on different systems in both attacks. Which of the following would have allowed the security team to use historical information to protect against the second attack?

A. Key risk indicators
B. Lessons learned
C. Recovery point objectives
D. Tabletop exercise

Answer: B

NEW QUESTION 503
- (Exam Topic 5)
A help desk technician receives a phone call from an individual claiming to be an employee of the organization and requesting assistance to access a locked account. The help desk technician asks the individual to provide proof of identity before access can be granted. Which of the following types of attack is the caller performing?

A. Phishing
B. Shoulder surfing
C. Impersonation
D. Dumpster diving

Answer: C

NEW QUESTION 508
- (Exam Topic 5)
Which of the following metrics are used to calculate the SLE? (Select TWO)

A. ROI
B. ARO
C. ALE
D. MTBF
E. MTTF
F. TCO

Answer: BC

NEW QUESTION 511
- (Exam Topic 5)
A security technician is configuring an access management system to track and record user actions. Which of the following functions should the technician configure?

A. Accounting
B. Authorization
C. Authentication
D. Identification

Answer: A

NEW QUESTION 512
- (Exam Topic 5)
A security engineer is configuring a wireless network with EAP-TLS. Which of the following activities is a requirement for this configuration?

A. Setting up a TACACS+ server
B. Configuring federation between authentication servers
C. Enabling TOTP
D. Deploying certificates to endpoint devices

Answer: D

NEW QUESTION 515
- (Exam Topic 5)

An office manager found a folder that included documents with various types of data relating to corporate clients. The office manager notified the data included dates of birth, addresses, and phone numbers for the clients. The office manager then reported this finding to the security compliance officer. Which of the following portions of the policy would the security officer need to consult to determine if a breach has occurred?

A. Public
B. Private
C. PHI
D. PII

Answer: D

NEW QUESTION 520
- (Exam Topic 5)
An organization's employees currently use three different sets of credentials to access multiple internal resources. Management wants to make this process less complex. Which of the following would be the BEST option to meet this goal?

A. Transitive trust
B. Single sign-on
C. Federation
D. Secure token

Answer: B

NEW QUESTION 525
- (Exam Topic 5)
Which of the following refers to the term used to restore a system to its operational state?

A. MTBF
B. MTTR
C. RTO
D. RPO

Answer: B

NEW QUESTION 526
- (Exam Topic 5)
When sending messages using symmetric encryption, which of the following must happen FIRST?

A. Exchange encryption key
B. Establish digital signatures
C. Agree on an encryption method
D. Install digital certificates

Answer: C

NEW QUESTION 530
- (Exam Topic 5)
A security administrator is diagnosing a server where the CPU utilization is at 100% for 24 hours. The main culprit of CPU utilization is the antivirus program. Which of the following issue could occur if left unresolved? (Select TWO)

A. MITM attack
B. DoS attack
C. DLL injection
D. Buffer overflow
E. Resource exhaustion

Answer: BE

NEW QUESTION 533
- (Exam Topic 5)
Which of the following locations contain the MOST volatile data?

A. SSD
B. Paging file
C. RAM
D. Cache memory

Answer: D

NEW QUESTION 538
- (Exam Topic 5)
A company is deploying smartphones for its mobile salesforce. These devices are for personal and business use but are owned by the company. Sales personnel will save new customer data via a custom application developed for the company. This application will integrate with the contact information stored in the smartphones and will populate new customer records onto it. The customer application's data is encrypted at rest, and the application's connection to the back office system is considered secure. The Chief Information Security Officer (CISO) has concerns that customer contact
information may be accidentally leaked due to the limited security capabilities of the devices and the planned controls. Which of the following will be the MOST efficient security control to implement to lower this risk?

A. Implement a mobile data loss agent on the devices to prevent any user manipulation with the contact information.
B. Restrict screen capture features on the devices when using the custom application and the contact information.
C. Restrict contact information storage dataflow so it is only shared with the customer application.
D. Require complex passwords for authentication when accessing the contact information.

Answer: C

NEW QUESTION 543
- (Exam Topic 5)
AChief Information Officer (CIO) asks the company's security specialist if the company should spend any funds on malware protection for a specific server. Based on a risk assessment, the ARO value of a malware infection for a server is 5 and the annual cost for the malware protection is $2500. Which of the following SLE values warrants a recommendation against purchasing the malware protection?

A. $500
B. $1000
C. $2000
D. $2500

Answer: A

NEW QUESTION 546
- (Exam Topic 5)
Company A has acquired Company B. Company A has different domains spread globally, and typically migrates its acquisitions infrastructure under its own domain infrastructure. Company B, however, cannot be merged into Company A's domain infrastructure. Which of the following methods would allow the two companies to access one another's resources?

A. Attestation
B. Federation
C. Single sign-on
D. Kerberos

Answer: B

NEW QUESTION 547
- (Exam Topic 5)
A technician is configuring a load balancer for the application team to accelerate the network performance of their applications. The applications are hosted on multiple servers and must be redundant. Given this scenario, which of the following would be the BEST method of configuring the load balancer?

A. Round-robin
B. Weighted
C. Least connection
D. Locality-based

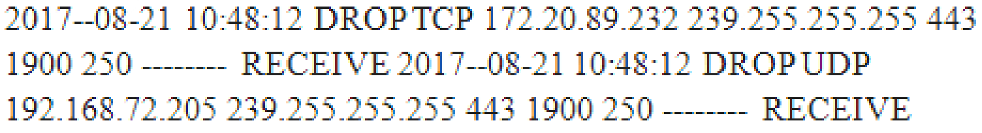
Answer: D

NEW QUESTION 552
- (Exam Topic 5)
Which of the following uses precomputed hashes to guess passwords?

A. Iptables
B. NAT tables
C. Rainbow tables
D. ARP tables

Answer: C

NEW QUESTION 555
- (Exam Topic 5)
Ann, a user, reports she is unable to access an application from her desktop. A security analyst verifies Ann's access and checks the SIEM for any errors. The security analyst reviews the log file from Ann's system and notices the following output:



```
2017--08-21 10:48:12 DROPTCP 172.20.89.232 239.255.255.255 443
1900 250 -------- RECEIVE 2017--08-21 10:48:12 DROPUDP
192.168.72.205 239.255.255.255 443 1900 250 -------- RECEIVE
```

Which of the following is MOST likely preventing Ann from accessing the application from the desktop?

A. Web application firewall
B. DLP
C. Host-based firewall
D. UTM
E. Network-based firewall

Answer: C

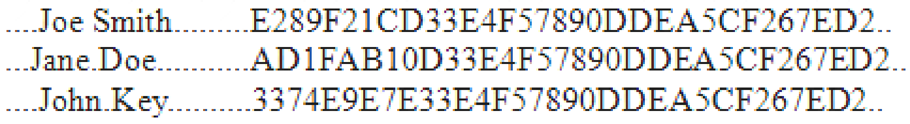
NEW QUESTION 556
- (Exam Topic 5)

A business sector is highly competitive, and safeguarding trade secrets and critical information is paramount. On a seasonal basis, an organization employs temporary hires and contractor personnel to accomplish its mission objectives. The temporary and contract personnel require access to network resources only when on the clock. Which of the following account management practices are the BEST ways to manage these accounts?

A. Employ time-of-day restrictions.
B. Employ password complexity.
C. Employ a random key generator strategy.
D. Employ an account expiration strategy.
E. Employ a password lockout policy

Answer: D

NEW QUESTION 560
- (Exam Topic 5)
A hacker has a packet capture that contains:



```
....Joe Smith.........E289F21CD33E4F57890DDEA5CF267ED2..
...Jane.Doe...........AD1FAB10D33E4F57890DDEA5CF267ED2...
....John.Key..........3374E9E7E33E4F57890DDEA5CF267ED2..
```

Which of the following tools will the hacker use against this type of capture?

A. Password cracker
B. Vulnerability scanner
C. DLP scanner
D. Fuzzer

Answer: A

NEW QUESTION 561
- (Exam Topic 5)
An organization plans to implement multifactor authentication techniques within the enterprise network architecture. Each authentication factor is expected to be a unique control. Which of the following BEST describes the proper employment of multifactor authentication?

A. Proximity card, fingerprint scanner, PIN
B. Fingerprint scanner, voice recognition, proximity card
C. Smart card, user PKI certificate, privileged user certificate
D. Voice recognition, smart card, proximity card

Answer: A

NEW QUESTION 565
- (Exam Topic 5)
An organization is expanding its network team. Currently, it has local accounts on all network devices, but with growth, it wants to move to centrally managed authentication. Which of the following are the BEST solutions for the organization? (Select TWO)

A. TACACS+
B. CHAP
C. LDAP
D. RADIUS
E. MSCHAPv2

Answer: AD

NEW QUESTION 569
- (Exam Topic 5)
A small company's Chief Executive Officer (CEO) has asked its Chief Security Officer (CSO) to improve the company's security posture quickly with regard to targeted attacks. Which of the following should the CSO conduct FIRST?

A. Survey threat feeds from services inside the same industry.
B. Purchase multiple threat feeds to ensure diversity and implement blocks for malicious traffic
C. Conduct an internal audit against industry best practices to perform a qualitative analysis.
D. Deploy a UTM solution that receives frequent updates from a trusted industry vendor.

Answer: A

NEW QUESTION 570
- (Exam Topic 5)
A security architect has convened a meeting to discuss an organization's key management policy. The organization has a reliable internal key management system, and some argue that it would be best to manage the cryptographic keys internally as opposed to using a solution from a third party. The company should use:

A. the current internal key management system.
B. a third-party key management system that will reduce operating costs.
C. risk benefits analysis results to make a determination.
D. a software solution including secure key escrow capabilities.

Answer: C

NEW QUESTION 573
- (Exam Topic 5)
An organization has implemented an IPSec VPN access for remote users. Which of the following IPSec modes would be the MOST secure for this organization to implement?

A. Tunnel mode
B. Transport mode
C. AH-only mode
D. ESP-only mode

Answer: A

Explanation:
In both ESP and AH cases with IPSec Transport mode, the IP header is exposed. The IP header is not exposed in IPSec Tunnel mode.

NEW QUESTION 577
- (Exam Topic 5)
A penetration tester is conducting an assessment on Comptia.org and runs the following command from a coffee shop while connected to the public Internet:
c:\nslookup - querytype=MX comptia.org
Server: Unknown Address: 198.51.100.45
comptia.org MX preference=10, mail exchanger = 92.68.102.33 comptia.org MX preference=20, mail exchanger = exchg1.comptia.org exchg1.comptia.org internet address = 192.168.102.67
Which of the following should the penetration tester conclude about the command output?

A. The public/private views on the Comptia.org DNS servers are misconfigured.
B. Comptia.org is running an older mail server, which may be vulnerable to exploits.
C. The DNS SPF records have not been updated for Comptia.org.
D. 192.168.102.67 is a backup mail server that may be more vulnerable to attack.

Answer: D

NEW QUESTION 580
- (Exam Topic 5)
A security manager is creating an account management policy for a global organization with sales personnel who must access corporate network resources while traveling all over the world. Which of the following practices is the security manager MOST likely to enforce with the policy? (Select TWO)

A. Time-of-day restrictions
B. Password complexity
C. Location-based authentication
D. Group-based access control
E. Standard naming convention

Answer: BD

NEW QUESTION 581
- (Exam Topic 5)
A security analyst is hardening a WiFi infrastructure. The primary requirements are the following:
- The infrastructure must allow staff to authenticate using the most secure method.
- The infrastructure must allow guests to use an "open" WiFi network that logs valid email addresses before granting access to the Internet.

Given these requirements, which of the following statements BEST represents what the analyst should recommend and configure?

A. Configure a captive portal for guests and WPS for staff.
B. Configure a captive portal for staff and WPA for guests.
C. Configure a captive portal for staff and WEP for guests.
D. Configure a captive portal for guest and WPA2 Enterprise for staff

Answer: D

NEW QUESTION 583
- (Exam Topic 5)
A forensic investigator has run into difficulty recovering usable files from a SAN drive. Which of the following SAN features might have caused the problem?

A. Storage multipaths
B. Deduplication
C. iSCSI initiator encryption
D. Data snapshots

Answer: B

NEW QUESTION 588
- (Exam Topic 5)
A security analyst is attempting to identify vulnerabilities in a customer's web application without impacting the system or its data. Which of the following BEST describes the vulnerability scanning concept performed?

A. Aggressive scan
B. Passive scan

C. Non-credentialed scan
D. Compliance scan

Answer: B

Explanation:
Passive scanning is a method of vulnerability detection that relies on information gleaned from network data that is captured from a target computer without direct interaction.
Packet sniffing applications can be used for passive scanning to reveal information such as operating system, known protocols running on non-standard ports and active network applications with known bugs. Passive scanning may be conducted by a network administrator scanning for security vulnerabilities or by an intruder as a preliminary to an active attack.
For an intruder, passive scanning's main advantage is that it does not leave a trail that could alert users or administrators to their activities. For an administrator, the main advantage is that it doesn't risk causing undesired behavior on the target computer, such as freezes. Because of these advantages, passive scanning need not be limited to a narrow time frame to minimize risk or disruption, which means that it is likely to return more information.
Passive scanning does have limitations. It is not as complete in detail as active vulnerability scanning and cannot detect any applications that are not currently sending out traffic; nor can it distinguish false information put out for obfuscation.

NEW QUESTION 589
- (Exam Topic 5)
A user typically works remotely over the holidays using a web-based VPN to access corporate resources. The user reports getting untrusted host errors and being unable to connect. Which of the following is MOST likely the case?

A. The certificate has expired
B. The browser does not support SSL
C. The user's account is locked out
D. The VPN software has reached the seat license maximum

Answer: A

NEW QUESTION 593
- (Exam Topic 5)
Systems administrator and key support staff come together to simulate a hypothetical interruption of service. The team updates the disaster recovery processes and documentation after meeting. Which of the following
describes the team's efforts?

A. Business impact analysis
B. Continuity of operation
C. Tabletop exercise
D. Order of restoration

Answer: C

NEW QUESTION 595
- (Exam Topic 5)
While working on an incident, Joe, a technician, finished restoring the OS and applications on a workstation from the original mediA. Joe is about to begin copying the user's files back onto the hard drive. Which of the following incident response steps is Joe working on now?

A. Recovery
B. Eradication
C. Containment
D. Identification

Answer: A

NEW QUESTION 597
- (Exam Topic 5)
A remote intruder wants to take inventory of a network so exploits can be researched. The intruder is looking for information about software versions on the network. Which of the following techniques is the intruder using?

A. Banner grabbing
B. Port scanning
C. Packet sniffing
D. Virus scanning

Answer: A

NEW QUESTION 598
- (Exam Topic 5)
A network administrator needs to allocate a new network for the R&D group. The network must not be accessible from the Internet regardless of the network firewall or other external misconfigurations. Which of the following settings should the network administrator implement to accomplish this?

A. Configure the OS default TTL to 1
B. Use NAT on the R&D network
C. Implement a router ACL
D. Enable protected ports on the switch

Answer: A

NEW QUESTION 603
- (Exam Topic 5)
An analyst is using a vulnerability scanner to look for common security misconfigurations on devices. Which of the following might be identified by the scanner? (Select TWO).

A. The firewall is disabled on workstations.
B. SSH is enabled on servers.
C. Browser homepages have not been customized.
D. Default administrator credentials exist on networking hardware.
E. The OS is only set to check for updates once a day.

Answer: AB

NEW QUESTION 607
- (Exam Topic 5)
A software developer is concerned about DLL hijacking in an application being written. Which of the following is the MOST viable mitigation measure of this type of attack?

A. The DLL of each application should be set individually
B. All calls to different DLLs should be hard-coded in the application
C. Access to DLLs from the Windows registry should be disabled
D. The affected DLLs should be renamed to avoid future hijacking

Answer: B

NEW QUESTION 609
- (Exam Topic 5)
A company is allowing a BYOD policy for its staff. Which of the following is a best practice that can decrease the risk of users jailbreaking mobile devices?

A. Install a corporately monitored mobile antivirus on the devices.
B. Prevent the installation of applications from a third-party application store.
C. Build a custom ROM that can prevent jailbreaking.
D. Require applications to be digitally signed.

Answer: D

NEW QUESTION 614
- (Exam Topic 5)
A company wants to ensure confidential data from storage media is sanitized in such a way that the drive cannot be reused. Which of the following method should the technician use?

A. Shredding
B. Wiping
C. Low-level formatting
D. Repartitioning
E. Overwriting

Answer: A

NEW QUESTION 619
- (Exam Topic 5)
Which of the following components of printers and MFDs are MOST likely to be used as vectors of compromise if they are improperly configured?

A. Embedded web server
B. Spooler
C. Network interface
D. LCD control panel

Answer: A

NEW QUESTION 622
- (Exam Topic 5)
A security administrator is trying to eradicate a worm, which is spreading throughout the organization, using an old remote vulnerability in the SMB protocol. The worm uses Nmap to identify target hosts within the company. The administrator wants to implement a solution that will eradicate the current worm and any future attacks that may be using zero-day vulnerabilities. Which of the following would BEST meet the requirements when implemented?

A. Host-based firewall
B. Enterprise patch management system
C. Network-based intrusion prevention system
D. Application blacklisting
E. File integrity checking

Answer: C

NEW QUESTION 625
- (Exam Topic 5)
A security analyst is securing smartphones and laptops for a highly mobile workforce.

Priorities include:

- Remote wipe capabilities
- Geolocation services
- Patch management and reporting
- Mandatory screen locks
- Ability to require passcodes and pins
- Ability to require encryption

Which of the following would BEST meet these requirements?

A. Implementing MDM software
B. Deploying relevant group policies to the devices
C. Installing full device encryption
D. Removing administrative rights to the devices

Answer: A

NEW QUESTION 629
- (Exam Topic 5)
A recent internal audit is forcing a company to review each internal business unit's VMs because the cluster they are installed on is in danger of running out of computer resources. Which of the following vulnerabilities exist?

A. Buffer overflow
B. End-of-life systems
C. System sprawl
D. Weak configuration

Answer: C

NEW QUESTION 633
- (Exam Topic 5)
Several workstations on a network are found to be on OS versions that are vulnerable to a specific attack. Which of the following is considered to be a corrective action to combat this vulnerability?

A. Install an antivirus definition patch
B. Educate the workstation users
C. Leverage server isolation
D. Install a vendor-supplied patch
E. Install an intrusion detection system

Answer: D

NEW QUESTION 636
- (Exam Topic 5)
An analyst receives an alert from the SIEM showing an IP address that does not belong to the assigned network can be seen sending packets to the wrong gateway.
Which of the following network devices is misconfigured and which of the following should be done to remediate the issue?

A. Firewall; implement an ACL on the interface
B. Router; place the correct subnet on the interface
C. Switch; modify the access port to trunk port
D. Proxy; add the correct transparent interface

Answer: B

NEW QUESTION 641
- (Exam Topic 5)
An organization has several production-critical SCADA supervisory systems that cannot follow the normal 30-day patching policy. Which of the following BEST maximizes the protection of these systems from malicious software?

A. Configure a firewall with deep packet inspection that restricts traffic to the systems.
B. Configure a separate zone for the systems and restrict access to known ports.
C. Configure the systems to ensure only necessary applications are able to run.
D. Configure the host firewall to ensure only the necessary applications have listening ports

Answer: A

NEW QUESTION 644
- (Exam Topic 5)
A penetration tester has written an application that performs a bit-by-bit XOR 0xFF operation on binaries prior to transmission over untrusted mediA. Which of the following BEST describes the action performed by this type of application?

A. Hashing
B. Key exchange
C. Encryption

D. Obfusication

Answer: D

NEW QUESTION 645
- (Exam Topic 5)
Which of the following solutions should an administrator use to reduce the risk from an unknown vulnerability in a third-party software application?

A. Sandboxing
B. Encryption
C. Code signing
D. Fuzzing

Answer: A

NEW QUESTION 650
- (Exam Topic 5)
When attackers use a compromised host as a platform for launching attacks deeper into a company's network, it is said that they are:

A. escalating privilege
B. becoming persistent
C. fingerprinting
D. pivoting

Answer: D

NEW QUESTION 652
- (Exam Topic 5)
Which of the following threats has sufficient knowledge to cause the MOST danger to an organization?

A. Competitors
B. Insiders
C. Hacktivists
D. Script kiddies

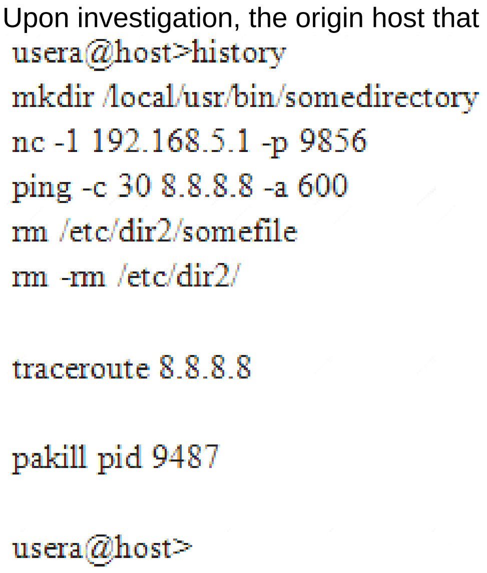
Answer: B

NEW QUESTION 654
- (Exam Topic 5)
A user receives an email from ISP indicating malicious traffic coming from the user's home network is detected. The traffic appears to be Linux-based, and it is targeting a website that was recently featured on the news as being taken offline by an Internet attack. The only Linux device on the network is a home surveillance camera system.
Which of the following BEST describes what is happening?

A. The camera system is infected with a bot.
B. The camera system is infected with a RAT.
C. The camera system is infected with a Trojan.
D. The camera system is infected with a backdoor.

Answer: A

NEW QUESTION 659
- (Exam Topic 5)
A cybersecurity analyst is looking into the payload of a random packet capture file that was selected for analysis. The analyst notices that an internal host had a socket established with another internal host over a non-standard port.
Upon investigation, the origin host that initiated the socket shows this output:



```
usera@host>history
mkdir /local/usr/bin/somedirectory
nc -1 192.168.5.1 -p 9856
ping -c 30 8.8.8.8 -a 600
rm /etc/dir2/somefile
rm -rm /etc/dir2/

traceroute 8.8.8.8

pakill pid 9487

usera@host>
```

Given the above output, which of the following commands would have established the questionable socket?

A. traceroute 8.8.8.8
B. ping -1 30 8.8.8.8 -a 600
C. nc -1 192.168.5.1 -p 9856
D. pskill pid 9487

Answer: C

NEW QUESTION 660
- (Exam Topic 5)
Which of the following is a deployment concept that can be used to ensure only the required OS access is exposed to software applications?

A. Staging environment
B. Sandboxing
C. Secure baseline
D. Trusted OS

Answer: B

NEW QUESTION 661
- (Exam Topic 5)
A systems administrator wants to generate a self-signed certificate for an internal website. Which of the following steps should the systems administrator complete prior to installing the certificate on the server?

A. Provide the private key to a public CA.
B. Provide the public key to the internal CA.
C. Provide the public key to a public CA.
D. Provide the private key to the internal CA.
E. Provide the public/private key pair to the internal CA
F. Provide the public/private key pair to a public CA.

Answer: D

NEW QUESTION 664
- (Exam Topic 5)
An incident response manager has started to gather all the facts related to a SIEM alert showing multiple systems may have been compromised.
The manager has gathered these facts:
The breach is currently indicated on six user PCs One service account is potentially compromised Executive management has been notified
In which of the following phases of the IRP is the manager currently working?

A. Recovery
B. Eradication
C. Containment
D. Identification

Answer: D

NEW QUESTION 667
- (Exam Topic 5)
A security analyst is mitigating a pass-the-hash vulnerability on a Windows infrastructure. Given the requirement, which of the following should the security analyst do to MINIMIZE the risk?

A. Enable CHAP
B. Disable NTLM
C. Enable Kerebos
D. Disable PAP

Answer: B

NEW QUESTION 670
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