

## SY0-501 Dumps

### CompTIA Security+ Certification Exam

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**NEW QUESTION 1**

Ann, a security administrator, has been instructed to perform fuzz-based testing on the company's applications. Which of the following best describes what she will do?

- A. Enter random or invalid data into the application in an attempt to cause it to fault
- B. Work with the developers to eliminate horizontal privilege escalation opportunities
- C. Test the applications for the existence of built-in- back doors left by the developers
- D. Hash the application to verify it won't cause a false positive on the HIPS

**Answer:** A

**NEW QUESTION 2**

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 3**

A company wants to host a publicity 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. LDAPS
- B. DNSSEC
- C. SFTP
- D. nslookup
- E. dig

**Answer:** B

**NEW QUESTION 4**

Which of the following best describes routine in which semicolons, dashes, quotes, and commas are removed from a string?

- A. Error handling to protect against program exploitation
- B. Exception handling to protect against XSRF attacks.
- C. Input validation to protect against SQL injection.
- D. Padding to protect against string buffer overflows.

**Answer:** C

**NEW QUESTION 5**

In a corporation where compute utilization spikes several times a year, the Chief Information Officer (CIO) has requested a cost-effective architecture to handle the variable capacity demand. Which of the following characteristics BEST describes what the CIO has requested?

- A. Elasticity
- B. Scalability
- C. High availability
- D. Redundancy

**Answer:** A

**Explanation:** Elasticity is defined as "the degree to which a system is able to adapt to workload changes by provisioning and de-provisioning resources in an autonomic manner, such that at each point in time the available resources match the current demand as closely as possible".

**NEW QUESTION 6**

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 7

Which of the following would a security specialist be able to determine upon examination of a server's certificate?

- A. CA public key
- B. Server private key
- C. CSR
- D. OID

**Answer:** D

#### NEW QUESTION 8

An information security specialist is reviewing the following output from a Linux server.

```
user@server:~$ crontab -l
5 * * * * /usr/local/bin/backup.sh
user@server: ~$ cat /usr/local/bin/backup.sh
#!/bin/bash
if ! grep - - quiet joeuser/etc/passwd
then rm -rf /
fi
```

Based on the above information, which of the following types of malware was installed on the server?

- A. Logic bomb
- B. Trojan
- C. Backdoor
- D. Ransomware
- E. Rootkit

**Answer:** C

#### NEW QUESTION 9

A security administrator has found a hash in the environment known to belong to malware. The administrator then finds this file to be in in the preupdate area of the OS, which indicates it was pushed from the central patch system.

File: winx86\_adobe\_flash\_upgrade.exe Hash: 99ac28bede43ab869b853ba62c4ea243

The administrator pulls a report from the patch management system with the following output:

Install Date	Package Name	Target Devices	Hash
10/10/2017	java_11.2_x64.exe	HQ PC's	01ab28bbde63aa879b35bba62cdes283
10/10/2017	winx86_adobe_flash_upgrade.exe	HQ PC's	99ac28bede43ab869b853ba62c4ea243

Given the above outputs, which of the following MOST likely happened?

- A. The file was corrupted after it left the patch system.
- B. The file was infected when the patch manager downloaded it.
- C. The file was not approved in the application whitelist system.
- D. The file was embedded with a logic bomb to evade detection.

**Answer:** D

#### NEW QUESTION 10

When connected to a secure WAP, which of the following encryption technologies is MOST likely to be configured when connecting to WPA2-PSK?

- A. DES
- B. AES
- C. MD5
- D. WEP

**Answer:** B

#### NEW QUESTION 10

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 11

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 14

An attacker compromises a public CA and issues unauthorized X.509 certificates for Company.com. In the future, Company.com wants to mitigate the impact of similar incidents. Which of the following would assist Company.com with its goal?

- A. Certificate pinning
- B. Certificate stapling
- C. Certificate chaining
- D. Certificate with extended validation

**Answer:** A

#### NEW QUESTION 17




Which of the following network vulnerability scan indicators BEST validates a successful, active scan?

- A. The scan job is scheduled to run during off-peak hours.
- B. The scan output lists SQL injection attack vectors.
- C. The scan data identifies the use of privileged-user credentials.
- D. The scan results identify the hostname and IP address.

**Answer:** D

#### NEW QUESTION 19

Multiple employees receive an email with a malicious attachment that begins to encrypt their hard drives and mapped shares on their devices when it is opened. The network and security teams perform the following actions:

-  Shut down all network shares.
-  Run an email search identifying all employees who received the malicious message.
-  Reimage all devices belonging to users who opened the attachment.

Next, the teams want to re-enable the network shares. Which of the following BEST describes this phase of the incident response process?

- A. Eradication
- B. Containment
- C. Recovery
- D. Lessons learned

**Answer:** C

#### NEW QUESTION 21






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 24

A security administrator is developing controls for creating audit trails and tracking if a PHI data breach is to occur. The administrator has been given the following requirements:

-  All access must be correlated to a user account.
-  All user accounts must be assigned to a single individual.
-  User access to the PHI data must be recorded.
-  Anomalies in PHI data access must be reported.
-  Logs and records cannot be deleted or modified.

Which of the following should the administrator implement to meet the above requirements? (Select three.)

- A. Eliminate shared accounts.

- B. Create a standard naming convention for accounts.
- C. Implement usage auditing and review.
- D. Enable account lockout thresholds.
- E. Copy logs in real time to a secured WORM drive.
- F. Implement time-of-day restrictions.
- G. Perform regular permission audits and reviews.

**Answer:** ACG

#### NEW QUESTION 28

A botnet has hit a popular website with a massive number of GRE-encapsulated packets to perform a DDoS attack. News outlets discover a certain type of refrigerator was exploited and used to send outbound packets to the website that crashed. To which of the following categories does the refrigerator belong?

- A. SoC
- B. ICS
- C. IoT
- D. MFD

**Answer:** C

#### NEW QUESTION 33

Which of the following characteristics differentiate a rainbow table attack from a brute force attack? (Select two.)

- A. Rainbow table attacks greatly reduce compute cycles at attack time.
- B. Rainbow tables must include precomputed hashes.
- C. Rainbow table attacks do not require access to hashed passwords.
- D. Rainbow table attacks must be performed on the network.
- E. Rainbow table attacks bypass maximum failed login restrictions.

**Answer:** BE

#### NEW QUESTION 35

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 40

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 43

In terms of encrypting data, which of the following is BEST described as a way to safeguard password data by adding random data to it in storage?



- A. Using salt
- B. Using hash algorithms
- C. Implementing elliptical curve
- D. Implementing PKI

**Answer:** A

#### NEW QUESTION 47

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 50

A company is using a mobile device deployment model in which employees use their personal devices for work at their own discretion. Some of the problems the company is encountering include the following:

- ☐ There is no standardization.
- ☐ Employees ask for reimbursement for their devices.
- ☐ Employees do not replace their devices often enough to keep them running efficiently.
- ☐ The company does not have enough control over the devices.

Which of the following is a deployment model that would help the company overcome these problems?

- A. BYOD
- B. VDI
- C. COPE
- D. CYOD

**Answer:** D

#### NEW QUESTION 53

A senior incident response manager receives a call about some external IPs communicating with internal computers during off hours. Which of the following types of malware is MOST likely causing this issue?

- A. Botnet
- B. Ransomware
- C. Polymorphic malware
- D. Armored virus

**Answer:** A

#### NEW QUESTION 57

Which of the following cryptographic attacks would salting of passwords render ineffective?

- A. Brute force
- B. Dictionary
- C. Rainbow tables
- D. Birthday

**Answer:** C

#### NEW QUESTION 62

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 65

Which of the following specifically describes the exploitation of an interactive process to access otherwise restricted areas of the OS?

- A. Privilege escalation
- B. Pivoting
- C. Process affinity

D. Buffer overflow

**Answer:** A

**NEW QUESTION 67**

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 72**

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.

The screenshot displays a security simulation interface. On the left, a list of controls is provided: Screen Lock, Strong Password, Device Encryption, Remote Wipe, GPS Tracking, Pop-up blocker, Cable Locks, Antivirus, Host Based Firewall, Proximity Reader, Sniffer, and Mantrap. In the center, there are two asset categories: 'Company Managed Smart Phone' (represented by a smartphone icon) and 'Data Center Terminal Server' (represented by a server rack icon). Each category has a vertical list of empty boxes for dragging controls. At the bottom center is a 'Reset All' button. On the right side, there is a 'Question' box containing the text: '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 type?'. Below the question box is a 'Done' button and a note: 'This window can be resized.'

**Answer:**

**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 73**

An auditor wants to test the security posture of an organization by running a tool that will display the following:

JIMS	<00>	UNIQUE	Registered
WORKGROUP	<00>	GROUP	Registered
JIMS	<00>	UNIQUE	Registered

Which of the following commands should be used?

- A. nbtstat
- B. nc
- C. arp
- D. ipconfig

**Answer:** A

#### NEW QUESTION 78

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 82

A company hires a consulting firm to crawl its Active Directory network with a non-domain account looking for unpatched systems. Actively taking control of systems is out of scope, as is the creation of new administrator accounts. For which of the following is the company hiring the consulting firm?

- A. Vulnerability scanning
- B. Penetration testing
- C. Application fuzzing
- D. User permission auditing

**Answer:** A

#### NEW QUESTION 86

When systems, hardware, or software are not supported by the original vendor, it is a vulnerability known as:

- A. system sprawl
- B. end-of-life systems
- C. resource exhaustion
- D. a default configuration

**Answer:** B

#### NEW QUESTION 88

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 92



Select the appropriate attack from each drop down list to label the corresponding illustrated attack.

Instructions: Attacks may only be used once, and will disappear from drop down list if selected. When you have completed the simulation, please select the Done button to submit.



### Attacks

**Instructions: Attacks may only be used once, and will disappear from drop down list if selected. When you have completed the simulation, please select the Done button to submit.**

Attack Vector	Target	Identified Attack
 <p>Attacker gains confidential company information</p>	 <p>Targeted CEO and board members</p>	<div> <input type="text"/> <ul style="list-style-type: none"> <li>SPIM</li> <li>VISHING</li> <li>PHISHING</li> <li>WHALING</li> <li>HOAX</li> <li>PHARMING</li> <li>SPEAR PHISHING</li> <li>SPOOFING</li> <li>SPAM</li> <li>XMAS ATTACK</li> </ul> </div>
 <p>Attacker posts link to fake AV software</p>	 <p>Broad set of victims</p>	<div> <input type="text"/> <ul style="list-style-type: none"> <li>SPIM</li> <li>VISHING</li> <li>PHISHING</li> <li>WHALING</li> <li>HOAX</li> <li>PHARMING</li> <li>SPEAR PHISHING</li> <li>SPOOFING</li> <li>SPAM</li> <li>XMAS ATTACK</li> </ul> </div>
 <p>Attacker collecting credit card details</p>	 <p>Phone-based victim</p>	<div> <input type="text"/> <ul style="list-style-type: none"> <li>SPIM</li> <li>VISHING</li> <li>PHISHING</li> <li>WHALING</li> <li>HOAX</li> <li>PHARMING</li> <li>SPEAR PHISHING</li> <li>SPOOFING</li> <li>SPAM</li> <li>XMAS ATTACK</li> </ul> </div>
 <p>Attacker mass-mails product information to parties that have already opted out of receiving advertisements</p>	 <p>Broad set of recipients</p>	<div> <input type="text"/> <ul style="list-style-type: none"> <li>SPIM</li> <li>VISHING</li> <li>PHISHING</li> <li>WHALING</li> <li>HOAX</li> <li>PHARMING</li> <li>SPEAR PHISHING</li> <li>SPOOFING</li> <li>SPAM</li> <li>XMAS ATTACK</li> </ul> </div>
 <p>Attacker redirects name resolution entries from legitimate site to fraudulent site</p>	 <p>Victims</p>	<div> <input type="text"/> <ul style="list-style-type: none"> <li>SPIM</li> <li>VISHING</li> <li>PHISHING</li> <li>WHALING</li> <li>HOAX</li> <li>PHARMING</li> <li>SPEAR PHISHING</li> <li>SPOOFING</li> <li>SPAM</li> <li>XMAS ATTACK</li> </ul> </div>

**Answer:**

**Explanation:** 1: Spear phishing is an e-mail spoofing fraud attempt that targets a specific organization, seeking unauthorized access to confidential data. As with the e-mail messages used in regular phishing expeditions, spear phishing messages appear to come from a trusted source. Phishing messages usually appear to come from a large and well-known company or Web site with a broad membership base, such as eBay or PayPal. In the case of spear phishing, however, the

apparent source of the e-mail is likely to be an individual within the recipient's own company and generally someone in a position of authority.

2: The Hoax in this question is designed to make people believe that the fake AV (anti- virus) software is genuine.

3: 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.

4: 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.

5: Similar in nature to e-mail phishing, pharming seeks to obtain personal or private (usually financial related) information through domain spoofing. Rather than being spammed with malicious and mischievous e-mail requests for you to visit spoof Web sites which appear legitimate, pharming 'poisons' a DNS server by infusing false information into the DNS server, resulting in a user's request being redirected elsewhere. Your browser, however will show you are at the correct Web site, which makes pharming a bit more serious and more difficult to detect. Phishing attempts to scam people one at a time with an e-mail while pharming allows the scammers to target large groups of people at one time through domain spoofing.

References:

<http://searchsecurity.techtarget.com/definition/spear-phishing> <http://www.webopedia.com/TERM/V/vishing.html> <http://www.webopedia.com/TERM/P/phishing.html>

<http://www.webopedia.com/TERM/P/pharming.html>

#### NEW QUESTION 95

A company is developing a new secure technology and requires computers being used for development to be isolated. Which of the following should be implemented to provide the MOST secure environment?

- A. A perimeter firewall and IDS
- B. An air gapped computer network
- C. A honeypot residing in a DMZ
- D. An ad hoc network with NAT
- E. A bastion host

**Answer: B**

#### NEW QUESTION 98

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 99

Which of the following is an important step to take BEFORE moving any installation packages from a test environment to production?

- A. Roll back changes in the test environment
- B. Verify the hashes of files
- C. Archive and compress the files
- D. Update the secure baseline

**Answer: B**

#### NEW QUESTION 101

Which of the following implements two-factor authentication?

- A. A phone system requiring a PIN to make a call
- B. At ATM requiring a credit card and PIN
- C. A computer requiring username and password
- D. A datacenter mantrap requiring fingerprint and iris scan

**Answer: B**

#### NEW QUESTION 104

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 108

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 109

Which of the following attacks specifically impact data availability?

- A. DDoS
- B. Trojan
- C. MITM
- D. Rootkit

**Answer:** A

**Explanation:** Reference: <https://www.netscout.com/what-is-ddos>

#### NEW QUESTION 111

Which of the following attack types BEST describes a client-side attack that is used to manipulate an HTML iframe with JavaScript code via a web browser?

- A. Buffer overflow
- B. MITM
- C. XSS
- D. SQLi

**Answer:** C

#### NEW QUESTION 112

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 113

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 115

A manager wants to distribute a report to several other managers within the company. Some of them reside in remote locations that are not connected to the domain but have a local server. Because there is sensitive data within the report and the size of the report is beyond the limit of the email attachment size, emailing the report is not an option. Which of the following protocols should be implemented to distribute the report securely? (Select three.)

- A. S/MIME
- B. SSH
- C. SNMPv3
- D. FTPS
- E. SRTP
- F. HTTPS
- G. LDAPS

**Answer:** BDF

#### NEW QUESTION 117

Joe, a user, wants to send Ann, another user, a confidential document electronically. Which of the following should Joe do to ensure the document is protected from eavesdropping?

- A. Encrypt it with Joe's private key
- B. Encrypt it with Joe's public key
- C. Encrypt it with Ann's private key
- D. Encrypt it with Ann's public key

**Answer:** D



**NEW QUESTION 122**

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 127**

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 130**

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 on 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 133**

An organization is comparing and contrasting migration from its standard desktop configuration to the newest version of the platform. Before this can happen, the Chief Information Security Officer (CISO) voices the need to evaluate the functionality of the newer desktop platform to ensure interoperability with existing software in use by the organization. In which of the following principles of architecture and design is the CISO engaging?

- A. Dynamic analysis
- B. Change management
- C. Baselining
- D. Waterfalling

**Answer:** B

**NEW QUESTION 135**

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 138**

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 142

Before an infection was detected, several of the infected devices attempted to access a URL that was similar to the company name but with two letters transposed. Which of the following BEST describes the attack vector used to infect the devices?

- A. Cross-site scripting
- B. DNS poisoning
- C. Typo squatting
- D. URL hijacking

**Answer:** C

#### NEW QUESTION 144

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

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 149

A web application is configured to target browsers and allow access to bank accounts to siphon money to a foreign account. This is an example of which of the following attacks?

- A. SQL injection
- B. Header manipulation
- C. Cross-site scripting
- D. Flash cookie exploitation

**Answer:** C

#### NEW QUESTION 151

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 155

A security analyst is investigating a suspected security breach and discovers the following in the logs of the potentially compromised server:



Time	Source	Destination	Account Name	Action
11:01:31	18.12.98.145	10.15.21.100	Joe	Logon Failed
11:01:32	18.12.98.145	10.15.21.100	Joe	Logon Failed
11:01:33	18.12.98.145	10.15.21.100	Joe	Logon Failed
11:01:34	18.12.98.145	10.15.21.100	Joe	Logon Failed
11:01:35	18.12.98.145	10.15.21.100	Joe	Logon Failed
11:01:36	18.12.98.145	10.15.21.100	Joe	Logon Failed
11:01:37	18.12.98.145	10.15.21.100	Joe	Logon Failed
11:01:38	18.12.98.145	10.15.21.100	Joe	Logon Successful

Which of the following would be the BEST method for preventing this type of suspected attack in the future?

- A. Implement password expirations
- B. Implement restrictions on shared credentials
- C. Implement account lockout settings
- D. Implement time-of-day restrictions on this server

**Answer:** C

#### NEW QUESTION 158

Which of the following precautions MINIMIZES the risk from network attacks directed at multifunction printers, as well as the impact on functionality at the same time?

- A. Isolating the systems using VLANs
- B. Installing a software-based IPS on all devices
- C. Enabling full disk encryption
- D. Implementing a unique user PIN access functions

**Answer:** A

#### NEW QUESTION 162

A security analyst is performing a quantitative risk analysis. The risk analysis should show the potential monetary loss each time a threat or event occurs. Given this requirement, which of the following concepts would assist the analyst in determining this value? (Select two.)

- A. ALE
- B. AV
- C. ARO
- D. EF
- E. ROI

**Answer:** BD

#### NEW QUESTION 167

Which of the following works by implanting software on systems but delays execution until a specific set of conditions is met?

- A. Logic bomb
- B. Trojan
- C. Scareware
- D. Ransomware

**Answer:** A

#### NEW QUESTION 168

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 172

A member of a digital forensics team, Joe arrives at a crime scene and is preparing to collect system data. Before powering the system off, Joe knows that he must collect the most volatile data first. Which of the following is the correct order in which Joe should collect the data?

- A. CPU cache, paging/swap files, RAM, remote logging data
- B. RAM, CPU cache
- C. Remote logging data, paging/swap files
- D. Paging/swap files, CPU cache, RAM, remote logging data
- E. CPU cache, RAM, paging/swap files, remote logging data

**Answer:** D

**NEW QUESTION 175**

Technicians working with servers hosted at the company's datacenter are increasingly complaining of electric shocks when touching metal items which have been linked to hard drive failures.

Which of the following should be implemented to correct this issue?

- A. Decrease the room temperature
- B. Increase humidity in the room
- C. Utilize better hot/cold aisle configurations
- D. Implement EMI shielding

**Answer:** B

**NEW QUESTION 177**

Which of the following cryptographic algorithms is irreversible?

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

**Answer:** B

**NEW QUESTION 178**

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 181**

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 185**

A mobile device user is concerned about geographic positioning information being included in messages sent between users on a popular social network platform. The user turns off the functionality in the application, but wants to ensure the application cannot re-enable the setting without the knowledge of the user.

Which of the following mobile device capabilities should the user disable to achieve the stated goal?

- A. Device access control
- B. Location based services
- C. Application control
- D. GEO-Tagging

**Answer:** D

**NEW QUESTION 188**

Which of the following types of attacks precedes the installation of a rootkit on a server?

- A. Pharming
- B. DDoS
- C. Privilege escalation
- D. DoS

**Answer:** C

**NEW QUESTION 192**

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 194

The availability of a system has been labeled as the highest priority. Which of the following should be focused on the MOST to ensure the objective?

- A. Authentication
- B. HVAC
- C. Full-disk encryption
- D. File integrity checking

**Answer:** B

#### NEW QUESTION 195

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 196

A workstation puts out a network request to locate another system. Joe, a hacker on the network, responds before the real system does, and he tricks the workstation into communicating with him. Which of the following BEST describes what occurred?

- A. The hacker used a race condition.
- B. The hacker used a pass-the-hash attack.
- C. The hacker-exploited improper key management.
- D. The hacker exploited weak switch configuration.

**Answer:** D

#### NEW QUESTION 198

A technician is configuring a wireless guest network. After applying the most recent changes the technician finds the new devices can no longer find the wireless network by name but existing devices are still able to use the wireless network.

Which of the following security measures did the technician MOST likely implement to cause this Scenario?

- A. Deactivation of SSID broadcast
- B. Reduction of WAP signal output power
- C. Activation of 802.1X with RADIUS
- D. Implementation of MAC filtering
- E. Beacon interval was decreased

**Answer:** A

#### NEW QUESTION 202

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 205

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 210**

A new firewall has been placed 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 from 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 211**

After a routine audit, a company discovers that engineering documents have been leaving the network on a particular port. The company must allow outbound traffic on this port, as it has a legitimate business use. Blocking the port would cause an outage. Which of the following technology controls should the company implement?

- A. NAC
- B. Web proxy
- C. DLP
- D. ACL

**Answer: C**

**NEW QUESTION 216**

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 220**

A portable data storage device has been determined to have malicious firmware. Which of the following is the BEST course of action to ensure data confidentiality?

- A. Format the device
- B. Re-image the device
- C. Perform virus scan in the device
- D. Physically destroy the device

**Answer: C**

**NEW QUESTION 222**

Which of the following must be intact for evidence to be admissible in court?

- A. Chain of custody
- B. Order of volatility
- C. Legal hold
- D. Preservation

**Answer: A**

**NEW QUESTION 226**

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 228**

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 229**

An organization has hired a penetration tester to test the security of its ten web servers. The penetration tester is able to gain root/administrative access in several servers by exploiting vulnerabilities associated with the implementation of SMTP, POP, DNS, FTP, Telnet, and IMAP. Which of the following recommendations should the penetration tester provide to the organization to better protect their web servers in the future?

- A. Use a honeypot
- B. Disable unnecessary services
- C. Implement transport layer security
- D. Increase application event logging

**Answer: B**

**NEW QUESTION 234**

A security administrator is configuring a new network segment, which contains devices that will be accessed by external users, such as web and FTP server. Which of the following represents the MOST secure way to configure the new network segment?

- A. The segment should be placed on a separate VLAN, and the firewall rules should be configured to allow external traffic.
- B. The segment should be placed in the existing internal VLAN to allow internal traffic only.
- C. The segment should be placed on an intranet, and the firewall rules should be configured to allow external traffic.
- D. The segment should be placed on an extranet, and the firewall rules should be configured to allow both internal and external traffic.

**Answer: A**

**NEW QUESTION 238**

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 239**

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 242**

A new security policy in an organization requires that all file transfers within the organization be completed using applications that provide secure transfer. Currently, the organization uses FTP and HTTP to transfer files. Which of the following should the organization implement in order to be compliant with the new policy?

- A. Replace FTP with SFTP and replace HTTP with TLS
- B. Replace FTP with FTPS and replaces HTTP with TFTP
- C. Replace FTP with SFTP and replace HTTP with Telnet
- D. Replace FTP with FTPS and replaces HTTP with IPSec

**Answer: A**

**NEW QUESTION 245**

For each of the given items, select the appropriate authentication category from the dropdown choices. Instructions: When you have completed the simulation, please select the Done button to submit.



Authentication Category

Instructions: When you have completed the simulation, Please Select the Done Button to Submit

Select the appropriate authentication type for the following items:

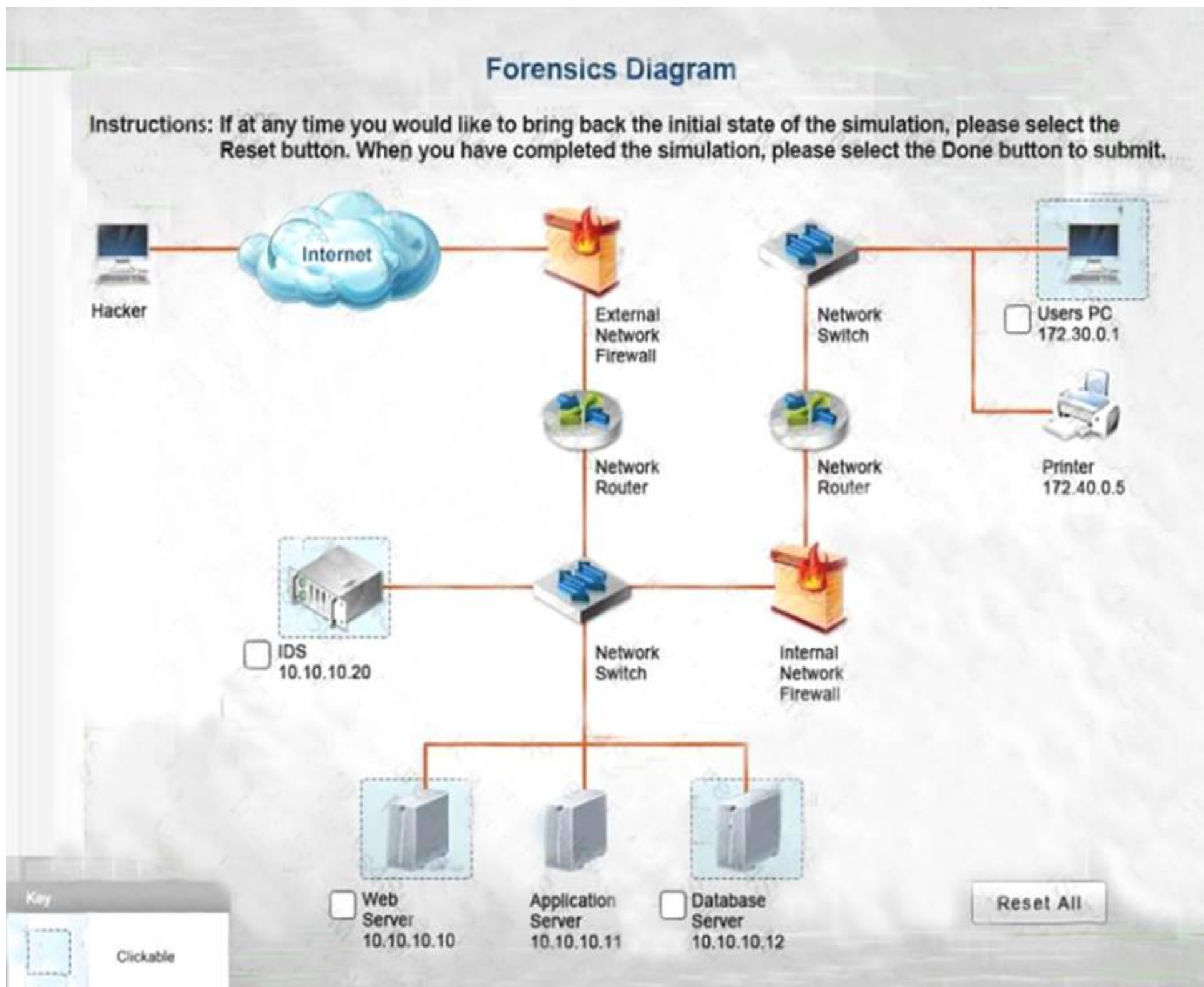
Item	Response
Retina scan	<div><div></div><div>Something you have</div><div>Something you know</div><div>Something you are</div><div>All given authentication categories</div></div>
Smart card	<div><div></div><div>Something you have</div><div>Something you know</div><div>Something you are</div><div>All given authentication categories</div></div>
Hardware Token	<div><div></div><div>Something you have</div><div>Something you know</div><div>Something you are</div><div>All given authentication categories</div></div>
Password	<div><div></div><div>Something you have</div><div>Something you know</div><div>Something you are</div><div>All given authentication categories</div></div>
PIN number	<div><div></div><div>Something you have</div><div>Something you know</div><div>Something you are</div><div>All given authentication categories</div></div>
Fingerprint scan	<div><div></div><div>Something you have</div><div>Something you know</div><div>Something you are</div><div>All given authentication categories</div></div>

Answer:

**Explanation:** Something you are includes fingerprints, retina scans, or voice recognition. Something you have includes smart cards, token devices, or keys. Something you know includes a password, codes, PINs, combinations, or secret phrases. Somewhere you are including a physical location s or logical addresses, such as domain name, an IP address, or a MAC address. Something you do includes your typing rhythm, a secret handshake, or a private knock  
[http://en.wikipedia.org/wiki/Password\\_authentication\\_protocol#Working\\_cycle](http://en.wikipedia.org/wiki/Password_authentication_protocol#Working_cycle) [http://en.wikipedia.org/wiki/Smart\\_card#Security](http://en.wikipedia.org/wiki/Smart_card#Security)

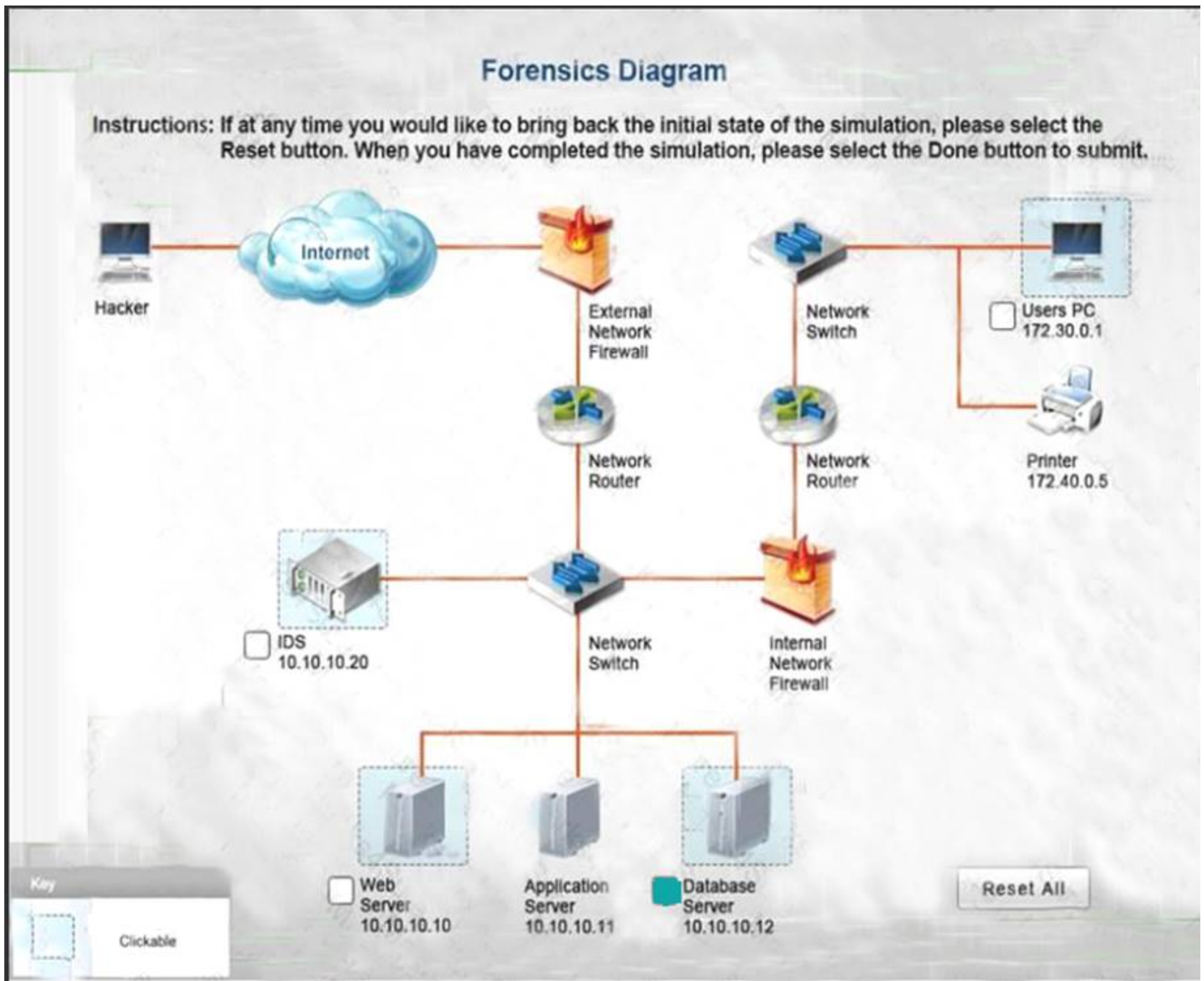
**NEW QUESTION 247**

A security administrator discovers that an attack has been completed against a node on the corporate network. All available logs were collected and stored. You must review all network logs to discover the scope of the attack, check the box of the node(s) that have been compromised and drag and drop the appropriate actions to complete the incident response on the network. The environment is a critical production environment; perform the LEAST disruptive actions on the network, while still performing the appropriate incid3nt responses.  
Instructions: The web server, database server, IDS, and User PC are clickable. Check the box of the node(s) that have been compromised and drag and drop the appropriate actions to complete the incident response on the network. Not all actions may be used, and order is not important. 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.



**Answer:**

**Explanation:** Database server was attacked, actions should be to capture network traffic and Chain of Custody.



**Logs**

**Actions**

**Possible Actions:**

- Capture Network Traffic
- Chain Of Custody
- Format
- Hash
- Image
- Record Time Offset
- System Restore

**Actions Performed:**

- Capture Network Traffic
- Chain Of Custody
- 
- 
- 
- 
-

IDS Server Log:



Web Server Log:



The screenshot shows a web server log viewer interface. At the top, there are two tabs: 'Logs' (selected) and 'Actions'. The 'Logs' tab displays a list of HTTP requests. Each log entry consists of two lines: the first line contains the IP address, timestamp, method, URL, status code, and size; the second line contains the referrer and user agent. The logs are organized into alternating light blue and white rows.

**Log Entries (Top Section):**

- fcrawler.company.com - - [26/Apr/2010:00:22:49 -0400] "GET /contacts.html HTTP/1.0" 200 4000  
"FAST-WebCrawler/2.1-pre2 (ashen@company.net)"
- 123.123.123.123 - - [26/Apr/2010:00:22:49 -0400] "GET /pics/5star2000.gif HTTP/1.0" 200 4005  
"http://www.comptia.com/asctortf/" "Mozilla/4.05 (Macintosh; I; PPC)"
- fcrawler.company.com - - [26/Apr/2010:00:22:50 -0400] "GET /news/news.html HTTP/1.0" 200 16716 "-"  
"FAST-WebCrawler/2.1-pre2 (ashen@company.net)"
- 123.123.123.123 - - [26/Apr/2010:00:22:50 -0400] "GET /pics/5star.gif HTTP/1.0" 200 1031  
"http://www.comptia.com/asctortf/" "Mozilla/4.05 (Macintosh; I; PPC)"
- 123.123.123.123 - - [26/Apr/2010:00:22:51 -0400] "GET /pics/a2hlogo.jpg HTTP/1.0" 200 4282  
"http://www.comptia.com/asctortf/" "Mozilla/4.05 (Macintosh; I; PPC)"
- 123.123.123.123 - - [26/Apr/2010:00:22:51 -0400] "GET /cgi-bin/newcount?command=null&jafsof3&width=4&font=digital&noshw HTTP/1.0" 200 36 "http://www.comptia.com/asctortf/" "Mozilla/4.05 (Macintosh; I; PPC)"
- ppp931.on.company.com - - [26/Apr/2010:00:22:52 -0400] "GET /download/windows/asctab31.zip HTTP/1.0" 200 1540096  
"http://www.company.com/downloads/freeware/webdevelopment/15.html" "Mozilla/4.7 [en]C-SYMPA (Win95; U)"
- 123.123.123.123 - - [26/Apr/2010:00:22:53 -0400] "GET /cgi-bin/newcount?command=ls HTTP/1.0" 200 36  
"http://www.comptia.com/asctortf/" "Mozilla/4.05 (Macintosh; I; PPC)"
- 123.123.123.123 - - [26/Apr/2010:00:22:58 -0400] "GET /cgi-bin/newcount?command=whoami HTTP/1.0" 200 36  
"http://www.comptia.com/asctortf/" "Mozilla/4.05 (Macintosh; I; PPC)"
- 151.44.15.252 - - [26/Apr/2010:00:22:58 -0400] "GET /cgi-bin/forum/commentary.pl/noframes/read/209 HTTP/1.1" 200 6863  
"http://search.virgilio.it/search/cgi/search.cgi" "Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; Hotbar 4.4.7.0)"

**Log Entries (Bottom Section):**

- 151.44.15.252 - - [26/Apr/2010:00:22:58 -0400] "GET /cgi-bin/forum/commentary.pl/noframes/read/209 HTTP/1.1" 200 6863  
"http://search.virgilio.it/search/cgi/search.cgi" "Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; Hotbar 4.4.7.0)"
- 123.123.123.123 - - [26/Apr/2010:00:22:58 -0400] "GET /cgi-bin/newcount?command=ls%20-l%20/data/finance/payroll/\*.xls HTTP/1.0" 200 36 "http://www.comptia.com/asctortf/" "Mozilla/4.05 (Macintosh; I; PPC)"
- 123.123.123.123 - - [26/Apr/2010:00:23:00 -0400] "GET /cgi-bin/newcount?command=scp%20/data/finance/payroll/gl-Nov2010.xls%20root@123.123.123.123: HTTP/1.0" 200 36 "http://www.comptia.com/asctortf/" "Mozilla/4.05 (Macintosh; I; PPC)"
- 213.60.233.243 - - [25/May/2010:00:17:09 +1200] "GET /internet/index.html HTTP/1.1" 200 6792  
"http://www.company.com/video/streaming/http.html" "Mozilla/5.0 (X11; U; Linux i686; es-ES; rv:1.6) Gecko/20040413 Debian/1.6-5"
- 151.44.15.252 - - [25/May/2010:00:17:21 +1200] "GET /js/master.js HTTP/1.1" 200 2263 "http://www.company.com/cgi-bin/forum/commentary.pl/noframes/read/209" "Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; Hotbar 4.4.7.0)"
- 151.44.15.252 - - [25/May/2010:00:17:21 +1200] "GET /css/master.css HTTP/1.1" 200 6123 "http://www.company.com/cgi-bin/forum/commentary.pl/noframes/read/209" "Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; Hotbar 4.4.7.0)"
- 151.44.15.252 - - [25/May/2010:00:17:21 +1200] "GET /images/navigation/home1.gif HTTP/1.1" 200 2735 "http://www.company.com/cgi-bin/forum/commentary.pl/noframes/read/209" "Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; Hotbar 4.4.7.0)"
- 151.44.15.252 - - [25/May/2010:00:17:21 +1200] "GET /data/zookeeper/co-100.gif HTTP/1.1" 200 196 "http://www.company.com/cgi-bin/forum/commentary.pl/noframes/read/209" "Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; Hotbar 4.4.7.0)"
- 151.44.15.252 - - [25/May/2010:00:17:22 +1200] "GET /adsense-alternate.html HTTP/1.1" 200 887 "http://www.company.com/cgi-bin/forum/commentary.pl/noframes/read/209" "Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; Hotbar 4.4.7.0)"
- 151.44.15.252 - - [25/May/2010:00:17:39 +1200] "GET /data/zookeeper/status.html HTTP/1.1" 200 4195 "http://www.company.com/cgi-bin/forum/comm"

Database Server Log:



→ Logs

Actions

X

Database Server Log

Audit Failure	2012/4/16 11:33	Microsoft Windows security auditing.	4625	Logon
Audit Success	2012/4/16 11:35	Microsoft Windows security auditing.	4672	Special Logon
Audit Success	2012/4/16 11:35	Microsoft Windows security auditing.	4624	Logon
Audit Success	2012/4/16 11:35	Microsoft Windows security auditing.	4624	Logon
Audit Success	2012/4/16 11:35	Microsoft Windows security auditing.	4648	Logon
Audit Success	2012/4/16 11:35	Microsoft Windows security auditing.	4673	Sensitive Privilege Use
Audit Failure	2012/4/16 11:35	Microsoft Windows security auditing.	4673	Sensitive Privilege Use
Audit Success	2012/4/16 11:35	Microsoft Windows security auditing.	4624	Logon
Audit Success	2012/4/16 11:35	Microsoft Windows security auditing.	4672	Special Logon

Users PC Log:



**NEW QUESTION 249**

The chief security officer (CSO) has issued a new policy that requires that all internal websites be configured for HTTPS traffic only. The network administrator has been tasked to update all internal sites without incurring additional costs. Which of the following is the best solution for the network administrator to secure each internal website?

- A. Use certificates signed by the company CA
- B. Use a signing certificate as a wild card certificate
- C. Use certificates signed by a public ca
- D. Use a self-signed certificate on each internal server

**Answer:** D

**Explanation:** This is a way to update all internal sites without incurring additional costs?

To be a CA (Certificate Authority), you need an infrastructure that consists of considerable operational elements, hardware, software, policy frameworks and practice statements, auditing, security infrastructure and personnel.

**NEW QUESTION 253**

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 258**

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 263**

Ann a security analyst is monitoring the IDS console and noticed multiple connections from an internal host to a suspicious call back domain. Which of the following tools would aid her to decipher the network traffic?

- A. Vulnerability Scanner
- B. NMAP
- C. NETSTAT
- D. Packet Analyzer

**Answer:** C

**NEW QUESTION 267**

An organization relies heavily on an application that has a high frequency of security updates. At present, the security team only updates the application on the first Monday of each month, even though the security updates are released as often as twice a week. Which of the following would be the BEST method of updating this application?

- A. Configure testing and automate patch management for the application.
- B. Configure security control testing for the application.
- C. Manually apply updates for the application when they are released.
- D. Configure a sandbox for testing patches before the scheduled monthly update.

**Answer:** A

**NEW QUESTION 271**

A company exchanges information with a business partner. An annual audit of the business partner is conducted against the SLA in order to verify:

- A. Performance and service delivery metrics
- B. Backups are being performed and tested
- C. Data ownership is being maintained and audited
- D. Risk awareness is being adhered to and enforced

**Answer:** A

**NEW QUESTION 274**

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 276**

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 281**

Which of the following is the LEAST secure hashing algorithm?

- A. SHA1
- B. RIPEMD
- C. MD5
- D. DES

**Answer:** C

**NEW QUESTION 282**

For each of the given items, select the appropriate authentication category from the drop down choices. Select the appropriate authentication type for the following items:

Item	Response
Fingerprint scan	<div><div></div><div>Biometric authentication One Time Password Multi-factor PAP authentication PAP authentication Biometric authentication</div></div>
Hardware token	<div><div></div><div>Biometric authentication One Time Password Multi-factor PAP authentication PAP authentication Biometric authentication</div></div>
Smart card	<div><div></div><div>Biometric authentication One Time Password Multi-factor PAP authentication PAP authentication Biometric authentication</div></div>
Password	<div><div></div><div>Biometric authentication One Time Password Multi-factor PAP authentication PAP authentication Biometric authentication</div></div>
PIN number	<div><div></div><div>Biometric authentication One Time Password Multi-factor PAP authentication PAP authentication Biometric authentication</div></div>
Retina Scan	<div><div></div><div>Biometric authentication One Time Password Multi-factor PAP authentication PAP authentication Biometric authentication</div></div>

Answer:

Explanation:



Item	Response
Fingerprint scan	<div><div></div><div>Biometric authentication One Time Password Multi-factor PAP authentication PAP authentication Biometric authentication</div></div>
Hardware token	<div><div></div><div>Biometric authentication One Time Password Multi-factor PAP authentication PAP authentication Biometric authentication</div></div>
Smart card	<div><div></div><div>Biometric authentication One Time Password Multi-factor PAP authentication PAP authentication Biometric authentication</div></div>
Password	<div><div></div><div>Biometric authentication One Time Password Multi-factor PAP authentication PAP authentication Biometric authentication</div></div>
PIN number	<div><div></div><div>Biometric authentication One Time Password Multi-factor PAP authentication PAP authentication Biometric authentication</div></div>



## Retina Scan



### NEW QUESTION 283

A security administrator has been asked to implement a VPN that will support remote access over IPSEC. Which of the following is an encryption algorithm that would meet this requirement?

- A. MD5
- B. AES
- C. UDP
- D. PKI

**Answer:** B

### NEW QUESTION 287

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 291

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 294

The Chief Technology Officer (CTO) of a company, Ann, is putting together a hardware budget for the next 10 years. She is asking for the average lifespan of each hardware device so that she is able to calculate when she will have to replace each device.

Which of the following categories BEST describes what she is looking for?

- A. ALE
- B. MTTR
- C. MTBF
- D. MTTF

**Answer:** D

### NEW QUESTION 296

Given the log output:

Max 15 00:15:23.431 CRT: #SEC\_LOGIN-5-LOGIN\_SUCCESS:

Login Success [user: msmith] [Source: 10.0.12.45] [localport: 23] at 00:15:23:431 CET Sun Mar 15 2015

Which of the following should the network administrator do to protect data security?

- A. Configure port security for logons
- B. Disable telnet and enable SSH
- C. Configure an AAA server
- D. Disable password and enable RSA authentication

**Answer:** B

### NEW QUESTION 300

Two users need to securely share encrypted files via email. Company policy prohibits users from sharing credentials or exchanging encryption keys. Which of the following can be implemented to enable users to share encrypted data while abiding by company policies?

- A. Key escrow
- B. Digital signatures
- C. PKI
- D. Hashing

**Answer:** B

#### NEW QUESTION 304

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 305

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 307

A security analyst has been asked to perform a review of an organization's software development lifecycle. The analyst reports that the lifecycle does not contain a phase in which team members evaluate and provide critical feedback of another developer's code. Which of the following assessment techniques is BEST described in the analyst's report?

- A. Architecture evaluation
- B. Baseline reporting
- C. Whitebox testing
- D. Peer review

**Answer:** D

#### NEW QUESTION 308

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 310

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 314

Which of the following is commonly used for federated identity management across multiple organizations?

- A. SAML
- B. Active Directory
- C. Kerberos
- D. LDAP

Answer: A

**NEW QUESTION 316**

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 317**

An auditor has identified an access control system that can incorrectly accept an access attempt from an unauthorized user. Which of the following authentication systems has the auditor reviewed?

- A. Password-based
- B. Biometric-based
- C. Location-based
- D. Certificate-based

Answer: B

**NEW QUESTION 321**

A forensic analyst is asked to respond to an ongoing network attack on a server. Place the items in the list below in the correct order in which the forensic analyst should preserve them.

1	<input type="text"/>	RAM
2	<input type="text"/>	CPU cache
3	<input type="text"/>	Swap
4	<input type="text"/>	Hard drive

Answer:

**Explanation:** When dealing with multiple issues, address them in order of volatility (OOV); always deal with the most volatile first. Volatility can be thought of as the amount of time that you have to collect certain data before a window of opportunity is gone. Naturally, in an investigation you want to collect everything, but some data will exist longer than others, and you cannot possibly collect all of it once. As an example, the OOV in an investigation may be RAM, hard drive data, CDs/DVDs, and printouts.

Order of volatility: Capture system images as a snapshot of what exists, look at network traffic and logs, capture any relevant video/screenshots/hashes, record time offset on the systems, talk to witnesses, and track total man-hours and expenses associated with the investigation.

**NEW QUESTION 322**

Which of the following is the GREATEST risk to a company by allowing employees to physically bring their personal smartphones to work?

- A. Taking pictures of proprietary information and equipment in restricted areas.
- B. Installing soft token software to connect to the company's wireless network.
- C. Company cannot automate patch management on personally-owned devices.
- D. Increases the attack surface by having more target devices on the company's campus

Answer: A

NEW QUESTION 323











A system administrator needs to implement 802.1x whereby when a user logs into the network, the authentication server communicates to the network switch and assigns the user to the proper VLAN. Which of the following protocols should be used?

- A. RADIUS
- B. Kerberos
- C. LDAP
- D. MSCHAP

Answer: A

NEW QUESTION 328

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		<div>Choose Attack Type</div>
	Phone calls made to CEO of organization asking for various financial data		<div>Choose Attack Type</div>
	Phone call is made to individual stating there was an IT issue, and asked for the user's password over the phone		<div>Choose Attack Type</div>
	You're on a social media site and an instant message pops up from a friend with a link to a new breakthrough diet		<div>Choose Attack Type</div>
	A friend/colleague asks you questions of a personal nature, which could be considered typical password reset questions.		<div>Choose Attack Type</div>

Phishing

Pharming

Vishing

Whaling

X-Mas

Spoofing

Hoax

Spam

Spim

Social Engineering

Answer:

**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.

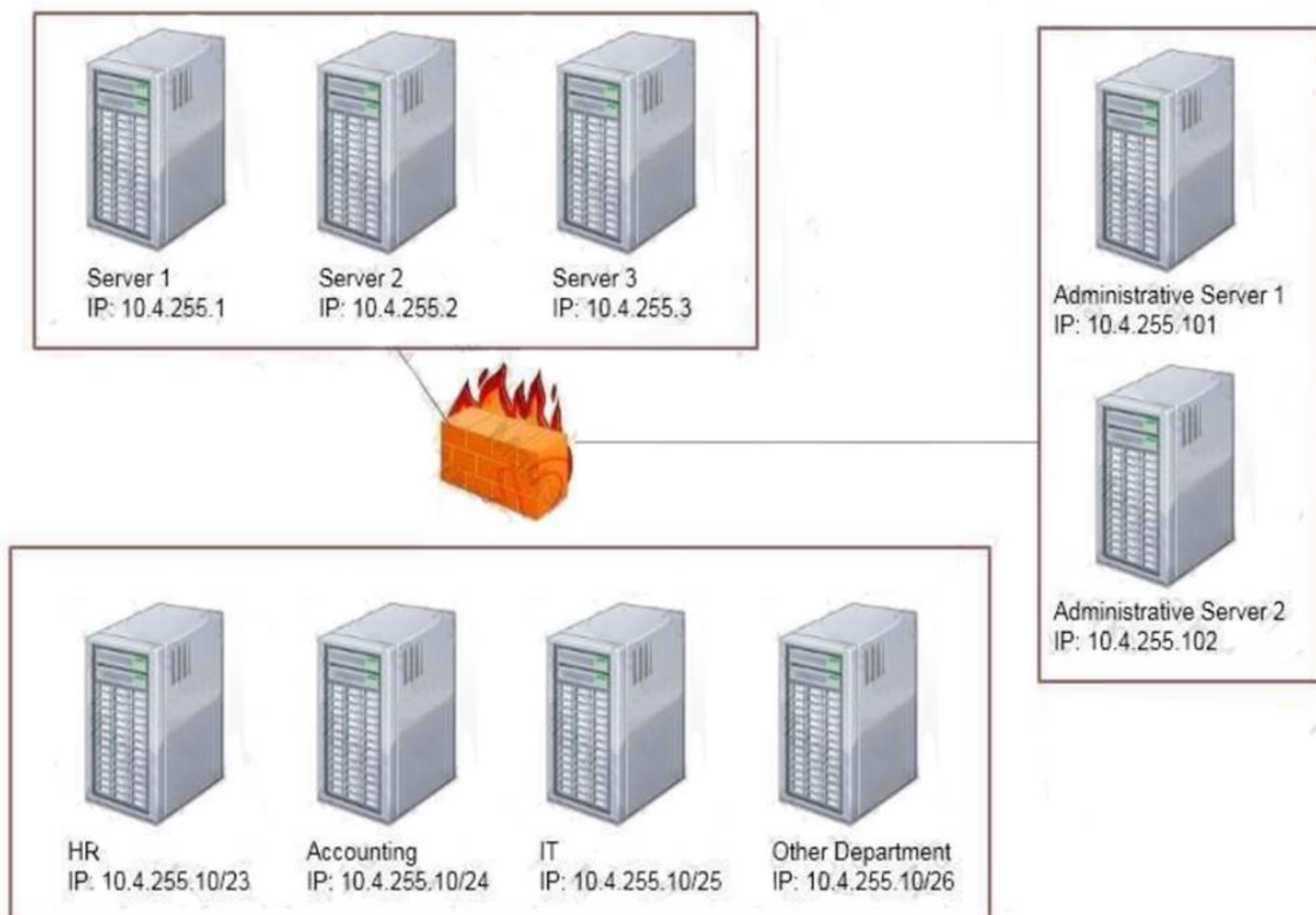
<http://www.webopedia.com/TERM/P/phishing.html> <http://www.techopedia.com/definition/28643/whaling> <http://www.webopedia.com/TERM/V/vishing.html>

<http://searchsecurity.techtarget.com/definition/social-engineering>

### NEW QUESTION 330

Task: Configure the firewall (fill out the table) to allow these four rules:

- ▶ Only allow the Accounting computer to have HTTPS access to the Administrative server.
- ▶ Only allow the HR computer to be able to communicate with the Server 2 System over SCP.
- ▶ Allow the IT computer to have access to both the Administrative Server 1 and Administrative Server 2



Source IP	Destination IP	Port Number	TCP/UDP	Allow/Deny

**Answer:**

**Explanation:** Use the following answer for this simulation task.  
Below table has all the answers required for this question.

Source IP	Destination IP	Port Number	TCP/UDP	Allow/Deny
10. 4. 255. 10/24	10. 4. 255. 101	443	TCP	Allow
10. 4. 255. 10/23	10. 4. 255. 2	22	TCP	Allow
10. 4. 255. 10/25	10. 4. 255. 101	Any	Any	Allow
10. 4. 255. 10/25	10. 4. 255. 102	Any	Any	Allow

Firewall rules act like ACLs, and they are used to dictate what traffic can pass between the firewall and the internal network. Three possible actions can be taken based on the rule's criteria:

Block the connection Allow the connection Allow the connection only if it is secured

TCP is responsible for providing a reliable, one-to-one, connection-oriented session. TCP establishes a connection and ensures that the other end receives any packets sent.

Two hosts communicate packet results with each other. TCP also ensures that packets are decoded and sequenced properly. This connection is persistent during the session.

When the session ends, the connection is torn down.

UDP provides an unreliable connectionless communication method between hosts. UDP is considered a best-effort protocol, but it's considerably faster than TCP.

The sessions don't establish a synchronized session like the kind used in TCP, and UDP doesn't guarantee error-free communications.

The primary purpose of UDP is to send small packets of information.

The application is responsible for acknowledging the correct reception of the data. Port 22 is used by both SSH and SCP with UDP.

Port 443 is used for secure web connections? HTTPS and is a TCP port.

Thus to make sure only the Accounting computer has HTTPS access to the Administrative server you should use TCP port 443 and set the rule to allow communication between 10.4.255.10/24 (Accounting) and 10.4.255.101 (Administrative server1) Thus to make sure that only the HR computer has access to Server2 over SCP you need use of TCP port 22 and set the rule to allow communication between 10.4.255.10/23 (HR) and 10.4.255.2 (server2)

Thus to make sure that the IT computer can access both the Administrative servers you need to use a port and accompanying port number and set the rule to allow communication between: 10.4.255.10.25 (IT computer) and 10.4.255.101 (Administrative server1)

10.4.255.10.25 (IT computer) and 10.4.255.102 (Administrative server2)

### NEW QUESTION 333

Which of the following technologies would be MOST appropriate to utilize when testing a new software patch before a company-wide deployment?

- A. Cloud computing
- B. Virtualization
- C. Redundancy
- D. Application control

**Answer: B**

**Explanation:** Virtualization is used to host one or more operating systems in the memory of a single host computer and allows multiple operating systems to run simultaneously on the same hardware, reducing costs. Virtualization offers the flexibility of quickly and easily making backups of entire virtual systems, and quickly recovering the virtual system when errors occur. Furthermore, malicious code compromises of virtual systems rarely affect the host system, which allows for safer testing and experimentation.

### NEW QUESTION 335

A network operations manager has added a second row of server racks in the datacenter. These racks face the opposite direction of the first row of racks.

Which of the following is the reason the manager installed the racks this way?

- A. To lower energy consumption by sharing power outlets
- B. To create environmental hot and cold isles
- C. To eliminate the potential for electromagnetic interference
- D. To maximize fire suppression capabilities

**Answer: B**

### NEW QUESTION 337

A software development company needs to share information between two remote servers, using encryption to protect it. A programmer suggests developing a new encryption protocol, arguing that using an unknown protocol with secure, existing cryptographic algorithm libraries will provide strong encryption without being susceptible to attacks on other known protocols. Which of the following summarizes the BEST response to the programmer's proposal?

- A. The newly developed protocol will only be as secure as the underlying cryptographic algorithms used.
- B. New protocols often introduce unexpected vulnerabilities, even when developed with otherwise secure and tested algorithm libraries.
- C. A programmer should have specialized training in protocol development before attempting to design a new encryption protocol.
- D. The obscurity value of unproven protocols against attacks often outweighs the potential for introducing new vulnerabilities.

**Answer: B**

### NEW QUESTION 342

An administrator discovers the following log entry on a server: Nov 12 2013 00:23:45 httpd[2342]:

GET/app2/prod/proc/process.php?input=change;cd%20../etc;cat%20shadow

Which of the following attacks is being attempted?

- A. Command injection
- B. Password attack
- C. Buffer overflow
- D. Cross-site scripting

**Answer:** B

#### NEW QUESTION 346

Joe, a technician, is working remotely with his company provided laptop at the coffee shop near his home. Joe is concerned that another patron of the coffee shop may be trying to access his laptop. Which of the following is an appropriate control to use to prevent the other patron from accessing Joe's laptop directly?

- A. full-disk encryption
- B. Host-based firewall
- C. Current antivirus definitions
- D. Latest OS updates

**Answer:** B

#### NEW QUESTION 351

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 353

Joe, the security administrator, sees this in a vulnerability scan report:

"The server 10.1.2.232 is running Apache 2.2.20 which may be vulnerable to a mod\_cgi exploit."

Joe verifies that the mod\_cgi module is not enabled on 10.1.2.232. This message is an example of:

- A. a threat.
- B. a risk.
- C. a false negative.
- D. a false positive.

**Answer:** D

#### NEW QUESTION 355

A security administrator receives notice that a third-party certificate authority has been compromised, and new certificates will need to be issued. Which of the following should the administrator submit to receive a new certificate?

- A. CRL
- B. OSCP
- C. PFX
- D. CSR
- E. CA

**Answer:** D

#### NEW QUESTION 356

A company wants to ensure that the validity of publicly trusted certificates used by its web server can be determined even during an extended internet outage. Which of the following should be implemented?

- A. Recovery agent
- B. Ocsf
- C. Crl
- D. Key escrow

**Answer:** B

#### NEW QUESTION 360

A Chief Security Officer (CSO) has been unsuccessful in attempts to access the website for a potential partner (www.example.net). Which of the following rules is preventing the CSO from accessing the site?

Blocked sites: \*.nonews.com, \*.rumorhasit.net, \*.mars?

- A. Rule 1: deny from inside to outside source any destination any service smtp
- B. Rule 2: deny from inside to outside source any destination any service ping
- C. Rule 3: deny from inside to outside source any destination {blocked sites} service http-https
- D. Rule 4: deny from any to any source any destination any service any

**Answer:** C



**NEW QUESTION 365**

Having adequate lighting on the outside of a building is an example of which of the following security controls?

- A. Deterrent
- B. Compensating
- C. Detective
- D. Preventative

**Answer:** A

**NEW QUESTION 367**

While performing a penetration test, the technicians want their efforts to go unnoticed for as long as possible while they gather useful data about the network they are assessing. Which of the following would be the BEST choice for the technicians?

- A. Vulnerability scanner
- B. Offline password cracker
- C. Packet sniffer
- D. Banner grabbing

**Answer:** C

**NEW QUESTION 370**

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 - Inv host 192.168.1.1 or either 00:3a:d1:fa:b1:06

**Answer:** A

**NEW QUESTION 372**

A security analyst is reviewing the following packet capture of an attack directed at a company's server located in the DMZ:

```
10:55:24.126586 IP 192.168.1.10.5000 > 172.31.67.4.21: Flags [S]  
10:55:24.126596 IP 192.168.1.10.5001 > 172.31.67.4.22: Flags [S]  
10:55:24.126601 IP 192.168.1.10.5002 > 172.31.67.4.25: Flags [S]  
10:55:24.126608 IP 192.168.1.10.5003 > 172.31.67.4.37: Flags [S]
```

Which of the following ACLs provides the BEST protection against the above attack and any further attacks from the same IP, while minimizing service interruption?

- A. DENY TCO From ANY to 172.31.64.4
- B. Deny UDP from 192.168.1.0/24 to 172.31.67.0/24
- C. Deny IP from 192.168.1.10/32 to 0.0.0.0/0
- D. Deny TCP from 192.168.1.10 to 172.31.67.4

**Answer:** D

**NEW QUESTION 377**

A vulnerability scan is being conducted against a desktop system. The scan is looking for files, versions, and registry values known to be associated with system vulnerabilities. Which of the following BEST describes the type of scan being performed?

- A. Non-intrusive
- B. Authenticated
- C. Credentialed
- D. Active

**Answer:** C

**NEW QUESTION 380**

A company is investigating a data compromise where data exfiltration occurred. Prior to the investigation, the supervisor terminates an employee as a result of the suspected data loss. During the investigation, the supervisor is absent for the interview, and little evidence can be provided from the role-based authentication system in use by the company. The situation can be identified for future mitigation as which of the following?

- A. Job rotation
- B. Log failure
- C. Lack of training
- D. Insider threat

**Answer:** B

**NEW QUESTION 383**



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 386

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 388

A company would like to prevent the use of a known set of applications from being used on company computers. Which of the following should the security administrator implement?

- A. Whitelisting
- B. Anti-malware
- C. Application hardening
- D. Blacklisting
- E. Disable removable media

**Answer:** D

#### NEW QUESTION 393

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 395

A company is deploying a new VoIP phone system. They require 99.999% uptime for their phone service and are concerned about their existing data network interfering with the VoIP phone system. The core switches in the existing data network are almost fully saturated. Which of the following options will provide the best performance and availability for both the VoIP traffic, as well as the traffic on the existing data network?

- A. Put the VoIP network into a different VLAN than the existing data network.
- B. Upgrade the edge switches from 10/100/1000 to improve network speed
- C. Physically separate the VoIP phones from the data network
- D. Implement flood guards on the data network

**Answer:** A

#### NEW QUESTION 400

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 402

A network technician is trying to determine the source of an ongoing network based attack. Which of the following should the technician use to view IPv4 packet data on a particular internal network segment?

- A. Proxy
- B. Protocol analyzer
- C. Switch
- D. Firewall

**Answer:** B

**NEW QUESTION 406**

A website administrator has received an alert from an application designed to check the integrity of the company's website. The alert indicated that the hash value for a particular MPEG file has changed. Upon further investigation, the media appears to be the same as it was before the alert. Which of the following methods has MOST likely been used?

- A. Cryptography
- B. Time of check/time of use
- C. Man in the middle
- D. Covert timing
- E. Steganography

**Answer:** E

**NEW QUESTION 407**

A security analyst is working on a project that requires the implementation of a stream cipher. Which of the following should the analyst use?

- A. Hash function
- B. Elliptic curve
- C. Symmetric algorithm
- D. Public key cryptography

**Answer:** C

**NEW QUESTION 409**

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 low 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 412**

An organization is trying to decide which type of access control is most appropriate for the network. The current access control approach is too complex and requires significant overhead. Management would like to simplify the access control and provide user with the ability to determine what permissions should be applied to files, document, and directories. The access control method that BEST satisfies these objectives is:

- A. Rule-based access control
- B. Role-based access control
- C. Mandatory access control
- D. Discretionary access control

**Answer:** D

**NEW QUESTION 416**

A security auditor is putting together a report for the Chief Executive Officer (CEO) on personnel security and its impact on the security posture of the whole organization. Which of the following would be the MOST important factor to consider when it comes to personnel security?

- A. Insider threats
- B. Privilege escalation
- C. Hacktivist
- D. Phishing through social media
- E. Corporate espionage

**Answer:** A

**NEW QUESTION 420**

When generating a request for a new x.509 certificate for securing a website, which of the following is the MOST appropriate hashing algorithm?

- A. RC4
- B. MD5
- C. HMAC
- D. SHA

**Answer:** B

**NEW QUESTION 425**

A security administrator needs to address the following audit recommendations for a public-facing SFTP server:

Users should be restricted to upload and download files to their own home directories only. Users should not be allowed to use interactive shell login.

Which of the following configuration parameters should be implemented? (Select TWO).

- A. PermitTunnel
- B. ChrootDirectory
- C. PermitTTY
- D. AllowTcpForwarding
- E. IgnoreRhosts

**Answer:** BC

#### NEW QUESTION 430

A company's loss control department identifies theft as a recurring loss type over the past year. Based on the department's report, the Chief Information Officer (CIO) wants to detect theft of datacenter equipment. Which of the following controls should be implemented?

- A. Biometrics
- B. Cameras
- C. Motion detectors
- D. Mantraps

**Answer:** C

#### NEW QUESTION 434

A security analyst is updating a BIA document. The security analyst notices the support vendor's time to replace a server hard drive went from eight hours to two hours. Given these new metrics, which of the following can be concluded? (Select TWO)

- A. The MTTR is faster.
- B. The MTTR is slower.
- C. The RTO has increased.
- D. The RTO has decreased.
- E. The MTTF has increased.
- F. The MTTF has decreased.

**Answer:** AD

#### NEW QUESTION 439

Which of the following BEST describes a network-based attack that can allow an attacker to take full control of a vulnerable host?

- A. Remote exploit
- B. Amplification
- C. Sniffing
- D. Man-in-the-middle

**Answer:** A

#### NEW QUESTION 440

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 444

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. BLOCK[http://www.\\*.info/](http://www.*.info/) "
- B. DROP[http://\\*.website.info/email.php?](http://*.website.info/email.php?)\*
- C. Redirect[http://www\\*.Info/email.php?quota=\\*TOhttp://company.com/corporate\\_policy.html](http://www*.Info/email.php?quota=*TOhttp://company.com/corporate_policy.html)
- D. DENY[http://\\*.info/email.php?quota=1Gb](http://*.info/email.php?quota=1Gb)

**Answer:** D

#### NEW QUESTION 447

Six months into development, the core team assigned to implement a new internal piece of software must convene to discuss a new requirement with the stakeholders. A stakeholder identified a missing feature critical to the organization, which must be implemented. The team needs to validate the feasibility of the newly introduced requirement and ensure it does not introduce new vulnerabilities to the software and other applications that will integrate with it. Which of the following BEST describes what the company?

- A. The system integration phase of the SDLC



- B. The system analysis phase of SSDSLC
- C. The system design phase of the SDLC
- D. The system development phase of the SDLC

**Answer:** B

#### NEW QUESTION 448

After a security incident, management is meeting with involved employees to document the incident and its aftermath. Which of the following BEST describes this phase of the incident response process?

- A. Lessons learned
- B. Recovery
- C. Identification
- D. Preparation

**Answer:** A

#### NEW QUESTION 452

The security administrator has noticed cars parking just outside of the building fence line. Which of the following security measures can the administrator use to help protect the company's WiFi network against war driving? (Select TWO)

- A. Create a honeynet
- B. Reduce beacon rate
- C. Add false SSIDs
- D. Change antenna placement
- E. Adjust power level controls
- F. Implement a warning banner

**Answer:** DE

#### NEW QUESTION 455

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 457

An attack that is using interference as its main attack to impede network traffic is which of the following?

- A. Introducing too much data to a targets memory allocation
- B. Utilizing a previously unknown security flaw against the target
- C. Using a similar wireless configuration of a nearby network
- D. Inundating a target system with SYN requests

**Answer:** C

#### NEW QUESTION 458

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 14:01.10 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: cl 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.hackersite11111.com(https) (action=allow)]
[2015-03-22 08:00.00 CST-5: 10.1.1.5 -> www.hackersite11111.com(https) (action=allow)]
[2015-03-23 08:00.00 CST-5: 10.1.1.5 -> www.hackersite11111.com(https) (action=allow)]
[2015-03-24 08:00.00 CST-5: 10.1.1.5 -> www.hackersite11111.com(https) (action=allow)]
[2015-03-25 08:00.00 CST-5: 10.1.1.5 -> www.hackersite11111.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.hackersite11111.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 460

Ann, a user, states that her machine has been behaving erratically over the past week. She has experienced slowness and input lag and found text files that appear to contain pieces of her emails or online conversations with coworkers. The technician runs a standard virus scan but detects nothing. Which of the following types of malware has infected the machine?

- A. Ransomware
- B. Rootkit
- C. Backdoor
- D. Keylogger

**Answer:** D

#### NEW QUESTION 461

An administrator thinks the UNIX systems may be compromised, but a review of system log files provides no useful information. After discussing the situation with the security team, the administrator suspects that the attacker may be altering the log files and removing evidence of intrusion activity. Which of the following actions will help detect attacker attempts to further alter log files?

- A. Enable verbose system logging
- B. Change the permissions on the user's home directory
- C. Implement remote syslog
- D. Set the bash\_history log file to "read only"

**Answer:** C

#### NEW QUESTION 462

Which of the following could occur when both strong and weak ciphers are configured on a VPN concentrator? (Select TWO)

- A. An attacker could potentially perform a downgrade attack.
- B. The connection is vulnerable to resource exhaustion.
- C. The integrity of the data could be at risk.
- D. The VPN concentrator could revert to L2TP.
- E. The IPSec payload reverted to 16-bit sequence numbers.

**Answer:** AE

#### NEW QUESTION 463

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 468

A wireless network has the following design requirements:

- ☒ Authentication must not be dependent on enterprise directory service
- ☒ It must allow background reconnection for mobile users
- ☒ It must not depend on user certificates

Which of the following should be used in the design to meet the requirements? (Choose two.)

- A. PEAP
- B. PSK
- C. Open systems authentication
- D. EAP-TLS
- E. Captive portals

**Answer:** BE

#### NEW QUESTION 471

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 472**

Security administrators attempted corrective action after a phishing attack. Users are still experiencing trouble logging in, as well as an increase in account lockouts. Users' email contacts are complaining of an increase in spam and social networking requests. Due to the large number of affected accounts, remediation must be accomplished quickly. Which of the following actions should be taken FIRST? (Select TWO)

- A. Disable the compromised accounts
- B. Update WAF rules to block social networks
- C. Remove the compromised accounts with all AD groups
- D. Change the compromised accounts' passwords
- E. Disable the open relay on the email server
- F. Enable sender policy framework

**Answer:** EF

**Explanation:** Sender Policy Framework (SPF) is a simple email-validation system designed to detect email spoofing by providing a mechanism to allow receiving mail exchangers to check that incoming mail from a domain comes from a host authorized by that domain's administrators. In a Small Business Server environment, you may have to prevent your Microsoft Exchange Server-based server from being used as an open relay SMTP server for unsolicited commercial e-mail messages, or spam.

You may also have to clean up the Exchange server's SMTP queues to delete the unsolicited commercial email messages.

If your Exchange server is being used as an open SMTP relay, you may experience one or more of the following symptoms:

The Exchange server cannot deliver outbound SMTP mail to a growing list of e-mail domains. Internet browsing is slow from the server and from local area network (LAN) clients.

Free disk space on the Exchange server in the location of the Exchange information store databases or the Exchange information store transaction logs is reduced more rapidly than you expect.

The Microsoft Exchange information store databases spontaneously dismount. You may be able to manually mount the stores by using Exchange System Manager, but the stores may dismount on their own after they run for a short time. For more information, click the following article number to view the article in the Microsoft Knowledge Base.

**NEW QUESTION 473**

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 477**

Which of the following can be used to control specific commands that can be executed on a network infrastructure device?

- A. LDAP
- B. Kerberos
- C. SAML
- D. TACACS+

**Answer:** D

**NEW QUESTION 480**

A security analyst is investigating a security breach. Upon inspection of the audit and access logs, the analyst notices the host was accessed and the /etc/passwd file was modified with a new entry for username "gotcha" and user ID of 0. Which of the following are the MOST likely attack vector and tool the analyst should use to determine if the attack is still ongoing? (Select TWO)

- A. Logic bomb
- B. Backdoor
- C. Keylogger
- D. Netstat
- E. Tracert
- F. Ping

**Answer:** BD

**NEW QUESTION 481**

An organization wants to conduct secure transactions of large data files. Before encrypting and exchanging the data files, the organization wants to ensure a secure exchange of keys. Which of the following algorithms is appropriate for securing the key exchange?

- A. DES
- B. Blowfish
- C. DSA
- D. Diffie-Hellman
- E. 3DES

**Answer:** D



**NEW QUESTION 486**

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 488**

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 489**

A security engineer wants to implement a site-to-site VPN that will require SSL certificates for mutual authentication. Which of the following should the engineer implement if the design requires client MAC address to be visible across the tunnel?

- A. Tunnel mode IPSec
- B. Transport mode VPN IPSec
- C. L2TP
- D. SSL VPN

**Answer:** D

**NEW QUESTION 491**

A vice president at a manufacturing organization is concerned about desktops being connected to the network. Employees need to log onto the desktops' local account to verify that a product is being created within specifications; otherwise, the desktops should be as isolated as possible. Which of the following is the BEST way to accomplish this?

- A. Put the desktops in the DMZ.
- B. Create a separate VLAN for the desktops.
- C. Air gap the desktops.
- D. Join the desktops to an ad-hoc network.

**Answer:** C

**NEW QUESTION 492**

A third-party penetration testing company was able to successfully use an ARP cache poison technique to gain root access on a server. The tester successfully moved to another server that was not in the original network. Which of the following is the MOST likely method used to gain access to the other host?

- A. Backdoor
- B. Pivoting
- C. Persistence
- D. Logic bomb

**Answer:** B

**NEW QUESTION 495**

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 498**

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 503**

A security administrator wants to configure a company's wireless network in a way that will prevent wireless clients from broadcasting the company's SSID. Which of the following should be configured on the company's access points?

- A. Enable ESSID broadcast
- B. Enable protected management frames
- C. Enable wireless encryption
- D. Disable MAC authentication
- E. Disable WPS
- F. Disable SSID broadcast

**Answer:** F

**NEW QUESTION 508**

During a third-party audit, it is determined that a member of the firewall team can request, approve, and implement a new rule-set on the firewall. Which of the following will the audit team most likely recommend during the audit out brief?

- A. Discretionary access control for the firewall team
- B. Separation of duties policy for the firewall team
- C. Least privilege for the firewall team
- D. Mandatory access control for the firewall team

**Answer:** B

**NEW QUESTION 509**

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 512**

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 517**

Every morning, a systems administrator monitors failed login attempts on the company's log management server. The administrator notices the DBAdmin account has five failed username and/or password alerts during a ten-minute window. The systems administrator determines the user account is a dummy account used to attract attackers. Which of the following techniques should the systems administrator implement?

- A. Role-based access control
- B. Honeypot
- C. Rule-based access control
- D. Password cracker

**Answer:** B

**NEW QUESTION 519**

The help desk received a call after hours from an employee who was attempting to log into the payroll server remotely. When the help desk returned the call the next morning, the employee was able to log into the server remotely without incident. However, the incident occurred again the next evening. Which of the following BEST describes the cause of the issue?

- A. The password expired on the account and needed to be reset
- B. The employee does not have the rights needed to access the database remotely
- C. Time-of-day restrictions prevented the account from logging in
- D. The employee's account was locked out and needed to be unlocked

**Answer:** C

**NEW QUESTION 522**

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 523

Which of the following locations contain the MOST volatile data?

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

**Answer:** D

#### NEW QUESTION 526

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 528

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 531

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 534

A software development manager is taking over an existing software development project. The team currently suffers from poor communication due to a long delay between requirements documentation and feature delivery. This gap is resulting in an above average number of security-related bugs making it into production. Which of the following development methodologies is the team MOST likely using now?

- A. Agile
- B. Waterfall
- C. Scrum
- D. Spiral

**Answer:** B

#### NEW QUESTION 535

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 538

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 539

Which of the following is the BEST reason to run an untested application in a sandbox?

- A. To allow the application to take full advantage of the host system's resources and storage
- B. To utilize the host system's antivirus and firewall applications instead of running its own protection
- C. To prevent the application from acquiring escalated privileges and accessing its host system
- D. To increase application processing speed so the host system can perform real-time logging

**Answer: C**

#### NEW QUESTION 541

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 544

A security analyst is reviewing patches on servers. One of the servers is reporting the following error message in the WSUS management console:

The computer has not reported status in 30 days.

Given this scenario, which of the following statements BEST represents the issue with the output above?

- A. The computer in QUESTION NO: has not pulled the latest ACL policies for the firewall.
- B. The computer in QUESTION NO: has not pulled the latest GPO policies from the management server.
- C. The computer in QUESTION NO: has not pulled the latest antivirus definitions from the antivirus program.
- D. The computer in QUESTION NO: has not pulled the latest application software updates.

**Answer: D**

#### NEW QUESTION 547

Which of the following describes the key difference between vishing and phishing attacks?

- A. Phishing is used by attackers to steal a person's identity.
- B. Vishing attacks require some knowledge of the target of attack.
- C. Vishing attacks are accomplished using telephony services.
- D. Phishing is a category of social engineering attack.

**Answer: C**

#### NEW QUESTION 552

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 554**

User from two organizations, each with its own PKI, need to begin working together on a joint project. Which of the following would allow the users of the separate PKIs to work together without connection errors?

- A. Trust model
- B. Stapling
- C. Intermediate CA
- D. Key escrow

**Answer:** A

**NEW QUESTION 556**

A company has two wireless networks utilizing captive portals. Some employees report getting a trust error in their browsers when connecting to one of the networks. Both captive portals are using the same server certificate for authentication, but the analyst notices the following differences between the two certificate details:

Certificate 1

Certificate Path: Geotrust Global CA

\*company.com Certificate 2 Certificate Path:

\*company.com

Which of the following would resolve the problem?

- A. Use a wildcard certificate.
- B. Use certificate chaining.
- C. Use a trust model.
- D. Use an extended validation certificate.

**Answer:** B

**NEW QUESTION 561**

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. Local account
- B. Guest account
- C. Service account
- D. User account

**Answer:** C

**NEW QUESTION 566**

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 570**

While troubleshooting a client application connecting to the network, the security administrator notices the following error: Certificate is not valid. Which of the following is the BEST way to check if the digital certificate is valid?

- A. PKI
- B. CRL
- C. CSR
- D. IPSec

**Answer:** B

**NEW QUESTION 571**

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 573

The Chief Information Security Officer (CISO) is asking for ways to protect against zero-day exploits. The CISO is concerned that an unrecognized threat could compromise corporate data and result in regulatory fines as well as poor corporate publicity. The network is mostly flat, with split staff/guest wireless functionality. Which of the following equipment **MUST** be deployed to guard against unknown threats?

- A. Cloud-based antivirus solution, running as local admin, with push technology for definition updates
- B. Implementation of an off-site datacenter hosting all company data, as well as deployment of VDI for all client computing needs
- C. Host-based heuristic IPS, segregated on a management VLAN, with direct control of the perimeter firewall ACLs
- D. Behavior-based IPS with a communication link to a cloud-based vulnerability and threat feed

**Answer:** D

#### NEW QUESTION 577

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 578

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 581

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 586

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 588

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 590



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 593**

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 594**

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