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**Exam Code:** SY0-601  
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**Exam A****QUESTION 1**

A large industrial system's smart generator monitors the system status and sends alerts to third-party maintenance personnel when critical failures occur. While reviewing the network logs, the company's security manager notices the generator's IP is sending packets to an internal file server's IP. Which of the following mitigations would be BEST for the security manager to implement while maintaining alerting capabilities?

- A. Segmentation
- B. Firewall whitelisting
- C. Containment
- D. Isolation

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 2**

Which of the following would be the BEST method for creating a detailed diagram of wireless access points and hotspots?

- A. Footprinting
- B. White-box testing
- C. A drone/UAV
- D. Pivoting

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 3**

After reading a security bulletin, a network security manager is concerned that a malicious actor may have breached the network using the same software flaw. The exploit code is publicly available and has been reported as being used against other industries in the same vertical. Which of the following should the network security manager consult FIRST to determine a priority list for forensic review?

- A. The vulnerability scan output
- B. The IDS logs
- C. The full packet capture data
- D. The SIEM alerts

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 4**

A security analyst reviews the datacenter access logs for a fingerprint scanner and notices an abundance of errors that correlate with users' reports of issues accessing the facility. Which of the following MOST likely indicates the cause of the access issues?

- A. False rejection
- B. Cross-over error rate
- C. Efficacy rate
- D. Attestation

**Correct Answer:** B

**Section: (none)**

**Explanation**

**Explanation/Reference:**

Explanation:

Reference: [https://www.sciencedirect.com/topics/computer-science/crossover-errorrate#:~:text=Crossover%20error%20rate%20\(CER\),accuracy%20of%20a%20biometric%20system](https://www.sciencedirect.com/topics/computer-science/crossover-errorrate#:~:text=Crossover%20error%20rate%20(CER),accuracy%20of%20a%20biometric%20system)

**QUESTION 5**

When implementing automation with IoT devices, which of the following should be considered FIRST to keep the network secure?

- A. Z-Wave compatibility
- B. Network range
- C. Zigbee configuration
- D. Communication protocols

**Correct Answer: D**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 6**

Which of the following technical controls is BEST suited for the detection and prevention of buffer overflows on hosts?

- A. DLP
- B. HIDS
- C. EDR
- D. NIPS

**Correct Answer: C**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 7**

A smart switch has the ability to monitor electrical levels and shut off power to a building in the event of power surge or power surge or other fault situation. The switch was installed on a wired network in a hospital and is monitored by the facilities department via a cloud application. The security administrator isolated the switch on a separate VLAN and set up a patching routine. Which of the following steps should also be taken to harden the smart switch?

- A. Set up an air gap for the switch.
- B. Change the default password for the switch.
- C. Place the switch in a Faraday cage.
- D. Install a cable lock on the switch.

**Correct Answer: B**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 8**

After entering a username and password, an administrator must draw a gesture on a touch screen. Which of the following demonstrates what the administrator is providing?

- A. Multifactor authentication
- B. Something you can do
- C. Biometrics

D. Two-factor authentication

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 9

The human resources department of a large online retailer has received multiple customer complaints about the rudeness of the automated chatbots it uses to interface and assist online shoppers. The system, which continuously learns and adapts, was working fine when it was installed a few months ago. Which of the following BEST describes the method being used to exploit the system?

- A. Baseline modification
- B. A fileless virus
- C. Tainted training data
- D. Cryptographic manipulation

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 10

A security analyst needs to perform periodic vulnerability scans on production systems. Which of the following scan types would produce the BEST vulnerability scan report?

- A. Port
- B. Intrusive
- C. Host discovery
- D. Credentialed

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 11

An organization with a low tolerance for user inconvenience wants to protect laptop hard drives against loss or data theft. Which of the following would be the MOST acceptable?

- A. SED
- B. HSM
- C. DLP
- D. TPM

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 12

A company is adopting a BYOD policy and is looking for a comprehensive solution to protect company information on user devices. Which of the following solutions would BEST support the policy?

- A. Mobile device management
- B. Full-device encryption
- C. Remote wipe
- D. Biometrics

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 13

A security analyst needs to be proactive in understanding the types of attacks that could potentially target the company's executives. Which of the following intelligence sources should the security analyst review?

- A. Vulnerability feeds
- B. Trusted automated exchange of indicator information
- C. Structured threat information expression
- D. Industry information-sharing and collaboration groups

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 14

A symmetric encryption algorithm is BEST suited for:

- A. key-exchange scalability.
- B. protecting large amounts of data.
- C. providing hashing capabilities.
- D. implementing non-repudiation.

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

Reference: <https://www.thesslstore.com/blog/symmetric-encryption-algorithms/>

#### QUESTION 15

A Chief Executive Officer (CEO) is dissatisfied with the level of service from the company's new service provider. The service provider is preventing the CEO from sending email from a work account to a personal account. Which of the following types of service providers is being used?

- A. Telecommunications service provider
- B. Cloud service provider
- C. Master managed service provider
- D. Managed security service provider

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 16**

An engineer wants to access sensitive data from a corporate-owned mobile device. Personal data is not allowed on the device. Which of the following MDM configurations must be considered when the engineer travels for business?

- A. Screen locks
- B. Application management
- C. Geofencing
- D. Containerization

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 17**

Joe, an employee, receives an email stating he won the lottery. The email includes a link that requests a name, mobile phone number, address, and date of birth be provided to confirm Joe's identity before sending him the prize. Which of the following BEST describes this type of email?

- A. Spear phishing
- B. Whaling
- C. Phishing
- D. Vishing

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 18**

A security analyst receives a SIEM alert that someone logged in to the appadmin test account, which is only used for the early detection of attacks. The security analyst then reviews the following application log:

```
...
[03/06/20xx:17:20:18] system 127.0.0.1 FindXPath=//User[Username/text()='foo' or 7=7 or 'o'='o' And Password/text()='bar']
[03/06/20xx:17:21:18] appadmin 194.28.114.102 action:login result:success
[03/06/20xx:17:22:18] appadmin 194.28.114.102 action:open.account(12345) result:fail
[03/06/20xx:17:23:18] appadmin 194.28.114.102 action:open.account(23456) result:fail
[03/06/20xx:17:23:18] appadmin 194.28.114.102 action:open.account(23456) result:fail
[03/06/20xx:17:23:18] appadmin 194.28.114.102 action:open.account(45678) result:fail
```

Which of the following can the security analyst conclude?

- A. A replay attack is being conducted against the application.
- B. An injection attack is being conducted against a user authentication system.
- C. A service account password may have been changed, resulting in continuous failed logins within the application.
- D. A credentialed vulnerability scanner attack is testing several CVEs against the application.

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 19**

A network administrator has been asked to design a solution to improve a company's security posture. The administrator is given the following requirements:

The solution must be inline in the network.

The solution must be able to block known malicious traffic. The solution must be able to stop network-based attacks.

Which of the following should the network administrator implement to BEST meet these requirements?

- A. HIDS

- B. NIDS
- C. HIPS
- D. NIPS

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 20

A malicious actor recently penetrated a company's network and moved laterally to the datacenter. Upon investigation, a forensics firm wants to know what was in the memory on the compromised server. Which of the following files should be given to the forensics firm?

- A. Security
- B. Application
- C. Dump
- D. Syslog

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 21

A security auditor is reviewing vulnerability scan data provided by an internal security team. Which of the following BEST indicates that valid credentials were used?

- A. The scan results show open ports, protocols, and services exposed on the target host
- B. The scan enumerated software versions of installed programs
- C. The scan produced a list of vulnerabilities on the target host
- D. The scan identified expired SSL certificates

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 22

An organization relies on third-party video conferencing to conduct daily business. Recent security changes now require all remote workers to utilize a VPN to corporate resources. Which of the following would BEST maintain high-quality video conferencing while minimizing latency when connected to the VPN?

- A. Using geographic diversity to have VPN terminations closer to end users
- B. Utilizing split tunneling so only traffic for corporate resources is encrypted
- C. Purchasing higher-bandwidth connections to meet the increased demand
- D. Configuring QoS properly on the VPN accelerators

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 23

During an incident, a company's CIRT determines it is necessary to observe the continued network-based transactions between a callback domain and the malware running on an enterprise PC. Which of the following techniques would be BEST to enable this activity while reducing the risk of lateral spread and the risk that the adversary would notice any changes?

- A. Physically move the PC to a separate Internet point of presence.
- B. Create and apply microsegmentation rules.
- C. Emulate the malware in a heavily monitored DMZ segment.
- D. Apply network blacklisting rules for the adversary domain.

**Correct Answer: B**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

#### QUESTION 24

A security engineer at an offline government facility is concerned about the validity of an SSL certificate. The engineer wants to perform the fastest check with the least delay to determine if the certificate has been revoked. Which of the following would BEST meet these requirements?

- A. RA
- B. OCSP
- C. CRL
- D. CSR

**Correct Answer: C**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

VCEUp

#### QUESTION 25

An organization is concerned that its hosted web servers are not running the most updated version of the software. Which of the following would work BEST to help identify potential vulnerabilities?

- A. hping3 -S comptia.org -p 80
- B. nc -l -v comptia.org -p 80
- C. nmap comptia.org -p 80 -sV
- D. nslookup -port=80 comptia.org

**Correct Answer: C**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

#### QUESTION 26

A network administrator would like to configure a site-to-site VPN utilizing IPsec. The administrator wants the tunnel to be established with data integrity, encryption, authentication, and anti-replay functions. Which of the following should the administrator use when configuring the VPN?

- A. AH
- B. EDR
- C. ESP
- D. DNSSEC

**Correct Answer: C**

**Section: (none)**

**Explanation**



**Explanation/Reference:****QUESTION 27**

An enterprise has hired an outside security firm to facilitate penetration testing on its network and applications. The firm has agreed to pay for each vulnerability that is discovered. Which of the following BEST represents the type of testing that is being used?

- A. White-box
- B. Red-team
- C. Bug bounty
- D. Gray-box
- E. Black-box

**Correct Answer: C**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

Explanation:

Reference: [https://en.wikipedia.org/wiki/Bug\\_bounty\\_program](https://en.wikipedia.org/wiki/Bug_bounty_program)

**QUESTION 28**

Which of the following would BEST identify and remediate a data-loss event in an enterprise using third-party, web-based services and file-sharing platforms?

- A. SIEM
- B. CASB
- C. UTM
- D. EDR

**Correct Answer: B**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

Explanation:

Reference: <https://www.forcepoint.com/cyber-edu/casb-cloud-access-security-broker>

**QUESTION 29**

An organization wants to implement a third factor to an existing multifactor authentication. The organization already uses a smart card and password. Which of the following would meet the organization's needs for a third factor?

- A. Date of birth
- B. Fingerprints
- C. PIN
- D. TPM

**Correct Answer: B**

**Section: (none)**

**Explanation**

**Explanation/Reference:****QUESTION 30**

A security analyst is reviewing the following attack log output:

```
user comptia\john.smith attempted login with the password password123
user comptia\jane.doe attempted login with the password password123
user comptia\user.one attempted login with the password password123
user comptia\user.two attempted login with the password password123
user comptia\user.three attempted login with the password password123
```

```
user comptia\john.smith attempted login with the password password234
user comptia\jane.doe attempted login with the password password234
user comptia\user.one attempted login with the password password234
user comptia\user.two attempted login with the password password234
user comptia\user.three attempted login with the password password234
```

Which of the following types of attacks does this MOST likely represent?

- A. Rainbow table
- B. Brute-force
- C. Password-spraying
- D. Dictionary

**Correct Answer: C**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

#### QUESTION 31

A network administrator has been alerted that web pages are experiencing long load times. After determining it is not a routing or DNS issue, the administrator logs in to the router, runs a command, and receives the following output:

```
CPU 0 percent busy, from 300 sec ago
1 sec ave: 99 percent busy
5 sec ave: 97 percent busy
1 min ave: 83 percent busy
```

Which of the following is the router experiencing?

- A. DDoS attack
- B. Memory leak
- C. Buffer overflow
- D. Resource exhaustion

**Correct Answer: D**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

#### QUESTION 32

During an incident, an EDR system detects an increase in the number of encrypted outbound connections from multiple hosts. A firewall is also reporting an increase in outbound connections that use random high ports. An analyst plans to review the correlated logs to find the source of the incident. Which of the following tools will BEST assist the analyst?

- A. A vulnerability scanner
- B. A NGFW
- C. The Windows Event Viewer
- D. A SIEM

**Correct Answer: D**

**Section: (none)**

**Explanation**

**Explanation/Reference:****QUESTION 33**

A security engineer needs to implement the following requirements:

All Layer 2 switches should leverage Active Directory for authentication.

All Layer 2 switches should use local fallback authentication if Active Directory is offline. All Layer 2 switches are not the same and are manufactured by several vendors.

Which of the following actions should the engineer take to meet these requirements? (Choose two.)

- A. Implement RADIUS.
- B. Configure AAA on the switch with local login as secondary.
- C. Configure port security on the switch with the secondary login method.
- D. Implement TACACS+.
- E. Enable the local firewall on the Active Directory server.
- F. Implement a DHCP server.

**Correct Answer:** AC

**Section:** (none)

**Explanation**

**Explanation/Reference:****QUESTION 34**

Ann, a forensic analyst, needs to prove that the data she originally acquired has remained unchanged while in her custody.

Which of the following should Ann use?

- A. Chain of custody
- B. Checksums
- C. Non-repudiation
- D. Legal hold

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:****QUESTION 35**

Which of the following describes the BEST approach for deploying application patches?

- A. Apply the patches to systems in a testing environment, then to systems in a staging environment, and finally to production systems.
- B. Test the patches in a staging environment, develop against them in the development environment, and then apply them to the production systems.
- C. Test the patches in a test environment, apply them to the production systems, and then apply them to a staging environment.
- D. Apply the patches to the production systems, apply them in a staging environment, and then test all of them in a testing environment.

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:****QUESTION 36**

An organization that has a large number of mobile devices is exploring enhanced security controls to manage unauthorized access if a device is lost or stolen. Specifically, if mobile devices are more than 3mi (4.8km) from the building, the management team would like to have the security team alerted and server resources restricted on those devices. Which of the following controls should the organization implement?

- A. Geofencing
- B. Lockout
- C. Near-field communication
- D. GPS tagging

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

Reference: <https://www.npws.net/blog/attract-customers-with-beacons-geotagginggeofencing/#:~:text=Geo%2Dtagging%3A%20The%20method%20consists,for%20a%20promotion%20or%20coupon> .

#### QUESTION 37

After a hardware incident, an unplanned emergency maintenance activity was conducted to rectify the issue. Multiple alerts were generated on the SIEM during this period of time. Which of the following BEST explains what happened?

- A. The unexpected traffic correlated against multiple rules, generating multiple alerts.
- B. Multiple alerts were generated due to an attack occurring at the same time
- C. An error in the correlation rules triggered multiple alerts.
- D. The SIEM was unable to correlate the rules, triggering the alerts.

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 38

Joe, a user at a company, clicked an email links that led to a website that infected his workstation. Joe was connected to the network, and the virus spread to the network shares. The protective measures failed to stop this virus, and it has continued to evade detection. Which of the following should a security administrator implement to protect the environment from this malware?

- A. Install a definition-based antivirus.
- B. Implement an IDS/IPS
- C. Implement a heuristic behavior-detection solution.
- D. Implement CASB to protect the network shares.

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 39

A company is upgrading its wireless infrastructure to WPA2-Enterprise using EAP-TLS. Which of the following must be part of the security architecture to achieve AAA? (Choose two.)

- A. DNSSEC
- B. Reverse proxy
- C. VPN concentrator
- D. PKI
- E. Active Directory
- F. RADIUS

**Correct Answer:** EF

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

Reference: [https://docs.aerohive.com/330000/docs/guides/EAP-TLS\\_NPS\\_RADIUS\\_Server.pdf](https://docs.aerohive.com/330000/docs/guides/EAP-TLS_NPS_RADIUS_Server.pdf)**QUESTION 40**

When selecting a technical solution for identity management, an architect chooses to go from an in-house solution to a thirdparty SaaS provider. Which of the following risk management strategies is this an example of?

- A. Transference
- B. Avoidance
- C. Acceptance
- D. Mitigation

**Correct Answer:** A**Section:** (none)**Explanation****Explanation/Reference:****QUESTION 41**

An organization is developing an authentication service for use at the entry and exit ports of country borders. The service will use data feeds obtained from passport systems, passenger manifests, and high-definition video feeds from CCTV systems that are located at the ports. The service will incorporate machine-learning techniques to eliminate biometric enrollment processes while still allowing authorities to identify passengers with increasing accuracy over time. The more frequently passengers travel, the more accurately the service will identify them. Which of the following biometrics will MOST likely be used, without the need for enrollment? (Choose two.)

- A. Voice
- B. Gait
- C. Vein
- D. Facial
- E. Retina
- F. Fingerprint

**Correct Answer:** BD**Section:** (none)**Explanation****Explanation/Reference:****QUESTION 42**

The following are the logs of a successful attack:

```
[DATA] attacking service ftp on port 21
[ATTEMPT] 09:00:01UTC target 192.168.50.1 - login "admin" -pass "p@55w0rd"
[ATTEMPT] 09:00:01UTC target 192.168.50.1 - login "admin" -pass "AcCe55"
[ATTEMPT] 09:00:01UTC target 192.168.50.1 - login "admin" -pass "A110w!"
[ATTEMPT] 09:00:01UTC target 192.168.50.1 - login "admin" -pass "FTPL0gin!"
[ATTEMPT] 09:00:01UTC target 192.168.50.1 - login "admin" -pass "L3tM31N!"
[21][ftp] host: 192.168.50.1 login: admin password: L3tM31N!
1 of 1 target successfully completed, 1 valid password found in <1 second
```

Which of the following controls would be BEST to use to prevent such a breach in the future?

- A. Password history
- B. Account expiration
- C. Password complexity
- D. Account lockout

**Correct Answer:** D**Section:** (none)

**Explanation****Explanation/Reference:**

Explanation:

Reference:

<https://www.computerhope.com/jargon/a/accolock.htm#:~:text=Account%20lockout%20keeps%20the%20account,log%20into%20your%20account%20again>

**QUESTION 43**

A security engineer needs to implement an MDM solution that complies with the corporate mobile device policy. The policy states that in order for mobile users to access corporate resources on their devices, the following requirements must be met:

Mobile device OSs must be patched up to the latest release.

A screen lock must be enabled (passcode or biometric).

Corporate data must be removed if the device is reported lost or stolen.

Which of the following controls should the security engineer configure? (Choose two.)

- A. Containerization
- B. Storage segmentation
- C. Posturing
- D. Remote wipe
- E. Full-device encryption
- F. Geofencing

**Correct Answer:** CD

**Section:** (none)

**Explanation**

**Explanation/Reference:****QUESTION 44**

Which of the following BEST explains the reason why a server administrator would place a document named password.txt on the desktop of an administrator account on a server?

- A. The document is a honeyfile and is meant to attract the attention of a cyberintruder.
- B. The document is a backup file if the system needs to be recovered.
- C. The document is a standard file that the OS needs to verify the login credentials.
- D. The document is a keylogger that stores all keystrokes should the account be compromised.

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:****QUESTION 45**

A development team employs a practice of bringing all the code changes from multiple team members into the same development project through automation. A tool is utilized to validate the code and track source code through version control.

Which of the following BEST describes this process?

- A. Continuous delivery
- B. Continuous integration
- C. Continuous validation
- D. Continuous monitoring

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 46**

Which of the following should a technician consider when selecting an encryption method for data that needs to remain confidential for a specific length of time?

- A. The key length of the encryption algorithm
- B. The encryption algorithm's longevity
- C. A method of introducing entropy into key calculations
- D. The computational overhead of calculating the encryption key

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 47**

A critical file server is being upgraded, and the systems administrator must determine which RAID level the new server will need to achieve parity and handle two simultaneous disk failures. Which of the following RAID levels meet this requirement?

- A. RAID 0+1
- B. RAID 2
- C. RAID 5
- D. RAID 6

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

Reference: <https://www.promax.com/blog/the-best-raid-for-performance-and-redundancy>

**QUESTION 48**

A user reports constant lag and performance issues with the wireless network when working at a local coffee shop. A security analyst walks the user through an installation of Wireshark and gets a five-minute pcap to analyze. The analyst observes the following output:

No	Time	Source	Destination	Protocol	Length	Info
1234	9.1195665	Sagemcom_87:9f:a3	Broadcast	802.11	38	Deauthentication, SN=655, FN=0
1235	9.1265649	Sagemcom_87:9f:a3	Broadcast	802.11	39	Deauthentication, SN=655, FN=0
1236	9.2223212	Sagemcom_87:9f:a3	Broadcast	802.11	38	Deauthentication, SN=657, FN=0

Which of the following attacks does the analyst MOST likely see in this packet capture?

- A. Session replay
- B. Evil twin
- C. Bluejacking
- D. ARP poisoning

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 49**



A commercial cyber-threat intelligence organization observes IoCs across a variety of unrelated customers. Prior to releasing specific threat intelligence to other paid subscribers, the organization is MOST likely obligated by contracts to:

- A. perform attribution to specific APTs and nation-state actors.
- B. anonymize any PII that is observed within the IoC data.
- C. add metadata to track the utilization of threat intelligence reports.
- D. assist companies with impact assessments based on the observed data.

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 50

A company is designing the layout of a new datacenter so it will have an optimal environmental temperature. Which of the following must be included? (Choose two.)

- A. An air gap
- B. A cold aisle
- C. Removable doors
- D. A hot aisle
- E. An IoT thermostat
- F. A humidity monitor

**Correct Answer:** BE

**Section:** (none)

**Explanation**

**Explanation/Reference:**

VCEUp

#### QUESTION 51

A document that appears to be malicious has been discovered in an email that was sent to a company's Chief Financial Officer (CFO). Which of the following would be BEST to allow a security analyst to gather information and confirm it is a malicious document without executing any code it may contain?

- A. Open the document on an air-gapped network.
- B. View the document's metadata for origin clues.
- C. Search for matching file hashes on malware websites.
- D. Detonate the document in an analysis sandbox.

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 52

During a routine scan of a wireless segment at a retail company, a security administrator discovers several devices are connected to the network that do not match the company's naming convention and are not in the asset inventory. WiFi access is protected with 256-bit encryption via WPA2. Physical access to the company's facility requires two-factor authentication using a badge and a passcode. Which of the following should the administrator implement to find and remediate the issue? (Choose two.)

- A. Check the SIEM for failed logins to the LDAP directory.
- B. Enable MAC filtering on the switches that support the wireless network.
- C. Run a vulnerability scan on all the devices in the wireless network.
- D. Deploy multifactor authentication for access to the wireless network.
- E. Scan the wireless network for rogue access points.
- F. Deploy a honeypot on the network.



**Correct Answer:** BE  
**Section:** (none)  
**Explanation**

**Explanation/Reference:**

**QUESTION 53**

Which of the following will MOST likely cause machine-learning and AI-enabled systems to operate with unintended consequences?

- A. Stored procedures
- B. Buffer overflows
- C. Data bias
- D. Code reuse

**Correct Answer:** C  
**Section:** (none)  
**Explanation**

**Explanation/Reference:**

**QUESTION 54**

An organization blocks user access to command-line interpreters, but hackers still managed to invoke the interpreters using native administrative tools. Which of the following should the security team do to prevent this from happening in the future?

- A. Implement HIPS to block inbound and outbound SMB ports 139 and 445.
- B. Trigger a SIEM alert whenever the native OS tools are executed by the user.
- C. Disable the built-in OS utilities as long as they are not needed for functionality.
- D. Configure the AV to quarantine the native OS tools whenever they are executed.

**Correct Answer:** C  
**Section:** (none)  
**Explanation**

**Explanation/Reference:**

**QUESTION 55**

Which of the following cryptographic concepts would a security engineer utilize while implementing non-repudiation?  
(Choose two.)

- A. Block cipher
- B. Hashing
- C. Private key
- D. Perfect forward secrecy
- E. Salting
- F. Symmetric keys

**Correct Answer:** BC  
**Section:** (none)  
**Explanation**

**Explanation/Reference:**

**QUESTION 56**

Which of the following is a risk that is specifically associated with hosting applications in the public cloud?

- A. Unsecured root accounts
- B. Zero-day
- C. Shared tenancy
- D. Insider threat

**Correct Answer: C**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

#### QUESTION 57

A privileged user at a company stole several proprietary documents from a server. The user also went into the log files and deleted all records of the incident. The systems administrator has just informed investigators that other log files are available for review. Which of the following did the administrator MOST likely configure that will assist the investigators?

- A. Memory dumps
- B. The syslog server
- C. The application log
- D. The log retention policy

**Correct Answer: D**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

#### QUESTION 58

A security analyst is configuring a large number of new company-issued laptops. The analyst received the following requirements:  
The devices will be used internationally by staff who travel extensively. Occasional personal use is acceptable due to the travel requirements.  
Users must be able to install and configure sanctioned programs and productivity suites.  
The devices must be encrypted.  
The devices must be capable of operating in low-bandwidth environments.  
Which of the following would provide the GREATEST benefit to the security posture of the devices?

- A. Configuring an always-on VPN
- B. Implementing application whitelisting
- C. Requiring web traffic to pass through the on-premises content filter
- D. Setting the antivirus DAT update schedule to weekly

**Correct Answer: D**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

#### QUESTION 59

Which of the following incident response steps involves actions to protect critical systems while maintaining business operations?

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

**Correct Answer: B**

**Section: (none)**

**Explanation****Explanation/Reference:****QUESTION 60**

A security analyst is reviewing information regarding recent vulnerabilities. Which of the following will the analyst MOST likely consult to validate which platforms have been affected?

- A. OSINT
- B. SIEM
- C. CVSS
- D. CVE

**Correct Answer: D**

**Section: (none)**

**Explanation****Explanation/Reference:****QUESTION 61**

The SOC is reviewing processes and procedures after a recent incident. The review indicates it took more than 30 minutes to determine that quarantining an infected host was the best course of action. This allowed the malware to spread to additional hosts before it was contained. Which of the following would be BEST to improve the incident response process?

- A. Updating the playbooks with better decision points
- B. Dividing the network into trusted and untrusted zones
- C. Providing additional end-user training on acceptable use
- D. Implementing manual quarantining of infected hosts

**Correct Answer: A**

**Section: (none)**

**Explanation****Explanation/Reference:****QUESTION 62**

A security analyst is performing a forensic investigation involving compromised account credentials. Using the Event Viewer, the analyst was able to detect the following message: "Special privileges assigned to new logon." Several of these messages did not have a valid logon associated with the user before these privileges were assigned. Which of the following attacks is MOST likely being detected?

- A. Pass-the-hash
- B. Buffer overflow
- C. Cross-site scripting
- D. Session replay

**Correct Answer: A**

**Section: (none)**

**Explanation****Explanation/Reference:****QUESTION 63**

A technician needs to prevent data loss in a laboratory. The laboratory is not connected to any external networks. Which of the following methods would BEST prevent the exfiltration of data? (Choose two.)

- A. VPN
- B. Drive encryption
- C. Network firewall
- D. File-level encryption

- E. USB blocker
- F. MFA

**Correct Answer:** BE

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 64**

Which of the following ISO standards is certified for privacy?

- A. ISO 9001
- B. ISO 27002
- C. ISO 27701
- D. ISO 31000

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 65**

Users at an organization have been installing programs from the Internet on their workstations without first receiving proper authorization. The organization maintains a portal from which users can install standardized programs. However, some users have administrative access on their workstations to enable legacy programs to function properly. Which of the following should the security administrator consider implementing to address this issue?

- A. Application code signing
- B. Application whitelisting
- C. Data loss prevention
- D. Web application firewalls

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 66**

A large enterprise has moved all its data to the cloud behind strong authentication and encryption. A sales director recently had a laptop stolen, and later enterprise data was found to have been compromised from a local database. Which of the following was the MOST likely cause?

- A. Shadow IT
- B. Credential stuffing
- C. SQL injection
- D. Man in the browser
- E. Bluejacking

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 67**

A security analyst is performing a packet capture on a series of SOAP HTTP requests for a security assessment. The analyst redirects the output to a file. After the capture is complete, the analyst needs to review the first transactions quickly and then search the entire series of requests for a particular string. Which of the following would be BEST to use to accomplish this task? (Choose two.)

- A. head
- B. tcpdump
- C. grep
- D. tail
- E. curl
- F. openssl
- G. dd

**Correct Answer:** BD

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

Reference: [https://science.hamptonu.edu/compsci/docs/iac/packet\\_sniffing.pdf](https://science.hamptonu.edu/compsci/docs/iac/packet_sniffing.pdf)

#### QUESTION 68

A company has limited storage space available and an online presence that cannot be down for more than four hours. Which of the following backup methodologies should the company implement to allow for the FASTEST database restore time in the event of a failure, while being mindful of the limited available storage space?

- A. Implement full tape backups every Sunday at 8:00 p.m. and perform nightly tape rotations.
- B. Implement differential backups every Sunday at 8:00 p.m. and nightly incremental backups at 8:00 p.m.
- C. Implement nightly full backups every Sunday at 8:00 p.m.
- D. Implement full backups every Sunday at 8:00 p.m. and nightly differential backups at 8:00 p.m.

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 69

Phishing and spear-phishing attacks have been occurring more frequently against a company's staff. Which of the following would MOST likely help mitigate this issue?

- A. DNSSEC and DMARC
- B. DNS query logging
- C. Exact mail exchanger records in the DNS
- D. The addition of DNS conditional forwarders

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 70

A user recently entered a username and password into a recruiting application website that had been forged to look like the legitimate site. Upon investigation, a security analyst identifies the following:

The legitimate website's IP address is 10.1.1.20 and eRecruit.local resolves to this IP.

The forged website's IP address appears to be 10.2.12.99, based on NetFlow records.

All three of the organization's DNS servers show the website correctly resolves to the legitimate IP.

DNS query logs show one of the three DNS servers returned a result of 10.2.12.99 (cached) at the approximate time of the suspected compromise.

Which of the following MOST likely occurred?

- A. A reverse proxy was used to redirect network traffic.

- B. An SSL strip MITM attack was performed.
- C. An attacker temporarily poisoned a name server.
- D. An ARP poisoning attack was successfully executed.

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 71

After consulting with the Chief Risk Officer (CRO), a manager decides to acquire cybersecurity insurance for the company. Which of the following risk management strategies is the manager adopting?

- A. Risk acceptance
- B. Risk avoidance
- C. Risk transference
- D. Risk mitigation

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 72

A security administrator needs to create a RAID configuration that is focused on high read speeds and fault tolerance. It is unlikely that multiple drives will fail simultaneously. Which of the following RAID configurations should the administrator use?

- A. RAID 0
- B. RAID 1
- C. RAID 5
- D. RAID 10

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 73

While checking logs, a security engineer notices a number of end users suddenly downloading files with the .tar.gz extension. Closer examination of the files reveals they are PE32 files. The end users state they did not initiate any of the downloads. Further investigation reveals the end users all clicked on an external email containing an infected MHT file with an href link a week prior. Which of the following is MOST likely occurring?

- A. A RAT was installed and is transferring additional exploit tools.
- B. The workstations are beaconing to a command-and-control server.
- C. A logic bomb was executed and is responsible for the data transfers.
- D. A fireless virus is spreading in the local network environment.

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 74**

A security analyst is reviewing logs on a server and observes the following output:

```
01/01/2020 03:33:23 admin attempted login with password sneak
01/01/2020 03:33:32 admin attempted login with password sneaked
01/01/2020 03:33:41 admin attempted login with password sneaker
01/01/2020 03:33:50 admin attempted login with password sneer
01/01/2020 03:33:59 admin attempted login with password sneeze
01/01/2020 03:34:08 admin attempted login with password sneezy
```

Which of the following is the security analyst observing?

- A. A rainbow table attack
- B. A password-spraying attack
- C. A dictionary attack
- D. A keylogger attack

**Correct Answer: C**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

Explanation:

Reference: <https://www.imperva.com/learn/application-security/brute-force-attack/>

**QUESTION 75**

A company recently transitioned to a strictly BYOD culture due to the cost of replacing lost or damaged corporate-owned mobile devices. Which of the following technologies would be BEST to balance the BYOD culture while also protecting the company's data?

- A. Containerization
- B. Geofencing
- C. Full-disk encryption
- D. Remote wipe

**Correct Answer: C**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 76**

A security administrator checks the table of a network switch, which shows the following output:

VLAN	Physical address	Type	Port
1	001a:42ff:5113	Dynamic	GE0/5
1	0faa:abcf:ddee	Dynamic	GE0/5
1	c6a9:6b16:758e	Dynamic	GE0/5
1	a3aa:b6a3:1212	Dynamic	GE0/5
1	8025:2ad8:bfac	Dynamic	GE0/5
1	b839:f995:a00a	Dynamic	GE0/5

Which of the following is happening to this switch?

- A. MAC flooding
- B. DNS poisoning
- C. MAC cloning
- D. ARP poisoning

**Correct Answer: A**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

Explanation:

Reference: [http://cisco.num.edu.mn/CCNA\\_R&S2/course/module2/2.2.2.1/2.2.2.1.html](http://cisco.num.edu.mn/CCNA_R&S2/course/module2/2.2.2.1/2.2.2.1.html)

**QUESTION 77**

To secure an application after a large data breach, an e-commerce site will be resetting all users' credentials. Which of the following will BEST ensure the site's users are not compromised after the reset?

- A. A password reuse policy
- B. Account lockout after three failed attempts
- C. Encrypted credentials in transit
- D. A geofencing policy based on login history

**Correct Answer: C**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 78**

An organization's RPO for a critical system is two hours. The system is used Monday through Friday, from 9:00 a.m. to 5:00 p.m. Currently, the organization performs a full backup every Saturday that takes four hours to complete. Which of the following additional backup implementations would be the MOST efficient way for the analyst to meet the business requirements?

- A. Incremental backups Monday through Friday at 6:00 p.m. and differential backups hourly
- B. Full backups Monday through Friday at 6:00 p.m. and incremental backups hourly
- C. Incremental backups Monday through Friday at 6:00 p.m. and full backups hourly
- D. Full backups Monday through Friday at 6:00 p.m. and differential backups hourly

**Correct Answer: A**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 79**

An organization would like to remediate the risk associated with its cloud service provider not meeting its advertised 99.999% availability metrics. Which of the following should the organization consult for the exact requirements for the cloud provider?

- A. SLA
- B. BPA
- C. NDA
- D. MOU

**Correct Answer: A**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 80**

A recently discovered zero-day exploit utilizes an unknown vulnerability in the SMB network protocol to rapidly infect computers. Once infected, computers are encrypted and held for ransom. Which of the following would BEST prevent this attack from reoccurring?

- A. Configure the perimeter firewall to deny inbound external connections to SMB ports.



- B. Ensure endpoint detection and response systems are alerting on suspicious SMB connections.
- C. Deny unauthenticated users access to shared network folders.
- D. Verify computers are set to install monthly operating system, updates automatically.

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 81

Which of the following is the purpose of a risk register?

- A. To define the level of risk using probability and likelihood
- B. To register the risk with the required regulatory agencies
- C. To identify the risk, the risk owner, and the risk measures
- D. To formally log the type of risk mitigation strategy the organization is using

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 82

A security analyst has been asked to investigate a situation after the SOC started to receive alerts from the SIEM. The analyst first looks at the domain controller and finds the following events:

Keywords	Date and time	Source	Event ID
Kerberos pre-authentication failed.	12/26/2019 11:37:21 PM	Microsoft Windows security auditing	4771
Kerberos pre-authentication failed.	12/26/2019 11:37:21 PM	Microsoft Windows security auditing	4771
Kerberos pre-authentication failed.	12/26/2019 11:37:22 PM	Microsoft Windows security auditing	4771

To better understand what is going on, the analyst runs a command and receives the following output:

name	lastbadpasswordattempt	badpwdcount
John.Smith	12/26/2019 11:37:21 PM	7
Joe.Jones	12/26/2019 11:37:21 PM	13
Michael.Johnson	12/26/2019 11:37:22 PM	8
Mary.Wilson	12/26/2019 11:37:22 PM	8
Jane.Brown	12/26/2019 11:37:23 PM	12

Based on the analyst's findings, which of the following attacks is being executed?

- A. Credential harvesting
- B. Keylogger
- C. Brute-force
- D. Spraying

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:****QUESTION 83**

An attacker is attempting to exploit users by creating a fake website with the URL [www.validwebsite.com](http://www.validwebsite.com). The attacker's intent is to imitate the look and feel of a legitimate website to obtain personal information from unsuspecting users. Which of the following social-engineering attacks does this describe?

- A. Information elicitation
- B. Typo squatting
- C. Impersonation
- D. Watering-hole attack

**Correct Answer: B**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

Explanation:

Reference: <https://www.kaspersky.com/resource-center/definitions/what-is-typoquatting>

**QUESTION 84**

A network administrator is setting up wireless access points in all the conference rooms and wants to authenticate devices using PKI. Which of the following should the administrator configure?

- A. A captive portal
- B. PSK
- C. 802.1X
- D. WPS

**Correct Answer: C**

**Section: (none)**

**Explanation**

**Explanation/Reference:****QUESTION 85**

A company recently set up an e-commerce portal to sell its product online. The company wants to start accepting credit cards for payment, which requires compliance with a security standard. Which of the following standards must the company comply with before accepting credit cards on its e-commerce platform?

- A. PCI DSS
- B. ISO 22301
- C. ISO 27001
- D. NIST CSF

**Correct Answer: A**

**Section: (none)**

**Explanation**

**Explanation/Reference:****QUESTION 86**

The IT department's on-site developer has been with the team for many years. Each time an application is released, the security team is able to identify multiple vulnerabilities. Which of the following would BEST help the team ensure the application is ready to be released to production?

- A. Limit the use of third-party libraries.
- B. Prevent data exposure queries.
- C. Obfuscate the source code.
- D. Submit the application to QA before releasing it.

**Correct Answer:** D  
**Section:** (none)  
**Explanation**

**Explanation/Reference:**

**QUESTION 87**

A security analyst is looking for a solution to help communicate to the leadership team the severity levels of the organization's vulnerabilities. Which of the following would BEST meet this need?

- A. CVE
- B. SIEM
- C. SOAR
- D. CVSS

**Correct Answer:** D  
**Section:** (none)  
**Explanation**

**Explanation/Reference:**

**QUESTION 88**

The Chief Security Officer (CSO) at a major hospital wants to implement SSO to help improve security in the environment and protect patient data, particularly at shared terminals. The Chief Risk Officer (CRO) is concerned that training and guidance have not been provided to frontline staff, and a risk analysis has not been performed. Which of the following is the MOST likely cause of the CRO's concerns?

- A. SSO would simplify username and password management, making it easier for hackers to guess accounts.
- B. SSO would reduce password fatigue, but staff would still need to remember more complex passwords.
- C. SSO would reduce the password complexity for frontline staff.
- D. SSO would reduce the resilience and availability of systems if the identity provider goes offline.

**Correct Answer:** D  
**Section:** (none)  
**Explanation**

**Explanation/Reference:**

**QUESTION 89**

A security analyst notices several attacks are being blocked by the NIPS but does not see anything on the boundary firewall logs. The attack seems to have been thwarted. Which of the following resiliency techniques was applied to the network to prevent this attack?

- A. NIC teaming
- B. Port mirroring
- C. Defense in depth
- D. High availability
- E. Geographic dispersal

**Correct Answer:** C  
**Section:** (none)  
**Explanation**

**Explanation/Reference:**

**QUESTION 90**

A host was infected with malware. During the incident response, Joe, a user, reported that he did not receive any emails with links, but he had been browsing the Internet all day. Which of the following would MOST likely show where the malware originated?

- A. The DNS logs
- B. The web server logs
- C. The SIP traffic logs
- D. The SNMP logs

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 91**

A network administrator needs to build out a new datacenter, with a focus on resiliency and uptime. Which of the following would BEST meet this objective? (Choose two.)

- A. Dual power supply
- B. Off-site backups
- C. Automatic OS upgrades
- D. NIC teaming
- E. Scheduled penetration testing
- F. Network-attached storage

**Correct Answer:** AB

**Section:** (none)

**Explanation**

**Explanation/Reference:**

VCEUp

**QUESTION 92**

Which of the following cloud models provides clients with servers, storage, and networks but nothing else?

- A. SaaS
- B. PaaS
- C. IaaS
- D. DaaS

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 93**

After segmenting the network, the network manager wants to control the traffic between the segments. Which of the following should the manager use to control the network traffic?

- A. A DMZ
- B. A VPN
- C. A VLAN
- D. An ACL

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 94**

Which of the following scenarios BEST describes a risk reduction technique?

- A. A security control objective cannot be met through a technical change, so the company purchases insurance and is no longer concerned about losses from data breaches.
- B. A security control objective cannot be met through a technical change, so the company implements a policy to train users on a more secure method of operation.
- C. A security control objective cannot be met through a technical change, so the company performs regular audits to determine if violations have occurred.
- D. A security control objective cannot be met through a technical change, so the Chief Information Officer decides to sign off on the risk.

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 95**

A company has three technicians who share the same credentials for troubleshooting system. Every time credentials are changed, the new ones are sent by email to all three technicians. The security administrator has become aware of this situation and wants to implement a solution to mitigate the risk. Which of the following is the BEST solution for company to implement?

- A. SSO authentication
- B. SSH keys
- C. OAuth authentication
- D. Password vaults

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

Reference: <https://www.onelogin.com/learn/how-single-sign-on-works>

**QUESTION 96**

The CSIRT is reviewing the lessons learned from a recent incident. A worm was able to spread unhindered throughout the network and infect a large number of computers and servers. Which of the following recommendations would be BEST to mitigate the impacts of a similar incident in the future?

- A. Install a NIDS device at the boundary.
- B. Segment the network with firewalls.
- C. Update all antivirus signatures daily.
- D. Implement application blacklisting.

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 97**

Which of the following scenarios would make DNS sinkhole effective in thwarting an attack?

- A. An attacker is sniffing traffic to port 53, and the server is managed using unencrypted usernames and passwords.
- B. An organization is experiencing excessive traffic on port 53 and suspects an attacker is trying to DoS the domain name server.
- C. Malware is trying to resolve an unregistered domain name to determine if it is running in an isolated sandbox.
- D. Routing tables have been compromised, and an attacker is rerouting traffic to malicious websites.

**Correct Answer:** D

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 98**

A small company that does not have security staff wants to improve its security posture. Which of the following would BEST assist the company?

- A. MSSP
- B. SOAR
- C. IaaS
- D. PaaS

**Correct Answer: B**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 99**

An analyst visits an Internet forum looking for information about a tool. The analyst finds a thread that appears to contain relevant information. One of the posts says the following:

```
Hello everyone,  
I am having the same problem with my server. Can you help me?  
  
<script type= "text/javascript" src=http://website.com/user.js>  
Onload=sqlexec();  
</script>  
  
Thank you,  
  
Joe
```

Which of the following BEST describes the attack that was attempted against the forum readers?

- A. SQLi attack
- B. DLL attack
- C. XSS attack
- D. API attack

**Correct Answer: C**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 100**

A web server administrator has redundant servers and needs to ensure failover to the secondary server when the primary server goes down. Which of the following should the administrator implement to avoid disruption?

- A. NIC teaming
- B. High availability
- C. Dual power supply
- D. IaaS

**Correct Answer: B**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 101**

A company has drafted an insider-threat policy that prohibits the use of external storage devices. Which of the following would BEST protect the company from data exfiltration via removable media?

- A. Monitoring large data transfer transactions in the firewall logs
- B. Developing mandatory training to educate employees about the removable media policy
- C. Implementing a group policy to block user access to system files
- D. Blocking removable-media devices and write capabilities using a host-based security tool

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 102**

A security analyst is reviewing a penetration-testing report from a third-party contractor. The penetration testers used the organization's new API to bypass a driver to perform privilege escalation on the organization's web servers. Upon looking at the API, the security analyst realizes the particular API call was to a legacy system running an outdated OS. Which of the following is the MOST likely attack type?

- A. Request forgery
- B. Session replay
- C. DLL injection
- D. Shimming

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 103**

A company just developed a new web application for a government agency. The application must be assessed and authorized prior to being deployed. Which of the following is required to assess the vulnerabilities resident in the application?

- A. Repository transaction logs
- B. Common Vulnerabilities and Exposures
- C. Static code analysis
- D. Non-credentialed scans

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 104**

A cybersecurity manager has scheduled biannual meetings with the IT team and department leaders to discuss how they would respond to hypothetical cyberattacks. During these meetings, the manager presents a scenario and injects additional information throughout the session to replicate what might occur in a dynamic cybersecurity event involving the company, its facilities, its data, and its staff. Which of the following describes what the manager is doing?

- A. Developing an incident response plan
- B. Building a disaster recovery plan
- C. Conducting a tabletop exercise
- D. Running a simulation exercise

**Correct Answer:** C

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 105**

A systems administrator needs to install the same X.509 certificate on multiple servers. Which of the following should the administrator use?

- A. Key escrow
- B. A self-signed certificate
- C. Certificate chaining
- D. An extended validation certificate

**Correct Answer: B**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 106**

An organization regularly scans its infrastructure for missing security patches but is concerned about hackers gaining access to the scanner's account. Which of the following would be BEST to minimize this risk while ensuring the scans are useful?

- A. Require a complex, eight-character password that is updated every 90 days.
- B. Perform only non-intrusive scans of workstations.
- C. Use non-credentialed scans against high-risk servers.
- D. Log and alert on unusual scanner account logon times.

**Correct Answer: D**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 107**

A local coffee shop runs a small WiFi hotspot for its customers that utilizes WPA2-PSK. The coffee shop would like to stay current with security trends and wants to implement WPA3 to make its WiFi even more secure. Which of the following technologies will the coffee shop MOST likely use in place of PSK?

- A. WEP
- B. MSCHAP
- C. WPS
- D. SAE

**Correct Answer: D**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 108**

An organization has a growing workforce that is mostly driven by additions to the sales department. Each newly hired salesperson relies on a mobile device to conduct business. The Chief Information Officer (CIO) is wondering if the organization may need to scale down just as quickly as it scaled up. The CIO is also concerned about the organization's security and customer privacy. Which of the following would be BEST to address the CIO's concerns?

- A. Disallow new hires from using mobile devices for six months.
- B. Select four devices for the sales department to use in a CYOD model.



- C. Implement BYOD for the sales department while leveraging the MDM.
- D. Deploy mobile devices using the COPE methodology.

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 109**

Which of the following BEST describes a social engineering attack that relies on an executive at a small business visiting a fake banking website where credit card and account details are harvested?

- A. Whaling
- B. Spam
- C. Invoice scam
- D. Pharming

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

Reference: <https://www.mpa.com/blog?p=types-of-phishing-attacks-whaling-deceptive-pharming-190525#:~:text=Whaling%20is%20the%20act%20of,to%20high%2Dlevel%20company%20information.&text=Pharming%20is%20a%20method%20of,traffic%20to%20a%20fake%20site> .

**QUESTION 110**

Which of the following is MOST likely to outline the roles and responsibilities of data controllers and data processors?

- A. SSAE SOC 2
- B. PCI DSS
- C. GDPR
- D. ISO 31000

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 111**

A network engineer needs to create a plan for upgrading the wireless infrastructure in a large office. Priority must be given to areas that are currently experiencing latency and connection issues. Which of the following would be the BEST resource for determining the order of priority?

- A. Nmap
- B. Heat maps
- C. Network diagrams
- D. Wireshark

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 112**

A network administrator is concerned about users being exposed to malicious content when accessing company cloud applications. The administrator wants to be able to block access to sites based on the AUP. The users must also be protected because many of them work from home or at remote locations, providing on-site customer support. Which of the following should the administrator employ to meet these criteria?

- A. Implement NAC.
- B. Implement an SWG.
- C. Implement a URL filter.
- D. Implement an MDM.

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 113

A security analyst needs to make a recommendation for restricting access to certain segments of the network using only data-link layer security. Which of the following controls will the analyst MOST likely recommend?

- A. MAC
- B. ACL
- C. BPDU
- D. ARP

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 114

A security analyst discovers several .jpg photos from a cellular phone during a forensic investigation involving a compromised system. The analyst runs a forensic tool to gather file metadata. Which of the following would be part of the images if all the metadata is still intact?

- A. The GPS location
- B. When the file was deleted
- C. The total number of print jobs
- D. The number of copies made

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

Reference: <https://www.sciencedirect.com/topics/computer-science/exchangeable-image-file-format>

#### QUESTION 115

A company is implementing a new SIEM to log and send alerts whenever malicious activity is blocked by its antivirus and web content filters. Which of the following is the primary use case for this scenario?

- A. Implementation of preventive controls
- B. Implementation of detective controls
- C. Implementation of deterrent controls
- D. Implementation of corrective controls

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:****QUESTION 116**

A security engineer is installing a WAF to protect the company's website from malicious web requests over SSL. Which of the following is needed to meet the objective?

- A. A reverse proxy
- B. A decryption certificate
- C. A split-tunnel VPN
- D. Load-balanced servers

**Correct Answer: B**

**Section: (none)**

**Explanation**

**Explanation/Reference:****QUESTION 117**

A security audit has revealed that a process control terminal is vulnerable to malicious users installing and executing software on the system. The terminal is beyond end-of-life support and cannot be upgraded, so it is placed on a protected network segment. Which of the following would be MOST effective to implement to further mitigate the reported vulnerability?

- A. DNS sinkholing
- B. DLP rules on the terminal
- C. An IP blacklist
- D. Application whitelisting

**Correct Answer: D**

**Section: (none)**

**Explanation**

**Explanation/Reference:****QUESTION 118**

In which of the following situations would it be BEST to use a detective control type for mitigation?

- A. A company implemented a network load balancer to ensure 99.999% availability of its web application.
- B. A company designed a backup solution to increase the chances of restoring services in case of a natural disaster.
- C. A company purchased an application-level firewall to isolate traffic between the accounting department and the information technology department.
- D. A company purchased an IPS system, but after reviewing the requirements, the appliance was supposed to monitor, not block, any traffic.
- E. A company purchased liability insurance for flood protection on all capital assets.

**Correct Answer: D**

**Section: (none)**

**Explanation**

**Explanation/Reference:****QUESTION 119**

A user contacts the help desk to report the following:

Two days ago, a pop-up browser window prompted the user for a name and password after connecting to the corporate wireless SSID. This had never happened before, but the user entered the information as requested.

The user was able to access the Internet but had trouble accessing the department share until the next day. The user is now getting notifications from the bank about unauthorized transactions.

Which of the following attack vectors was MOST likely used in this scenario?

- A. Rogue access point
- B. Evil twin
- C. DNS poisoning

D. ARP poisoning

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 120**

An enterprise has hired an outside security firm to conduct penetration testing on its network and applications. The firm has been given all the developer's documentation about the internal architecture. Which of the following BEST represents the type of testing that will occur?

A. Bug bounty

B. White-box

C. Black-box

D. Gray-box

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 121**

A security analyst receives the configuration of a current VPN profile and notices the authentication is only applied to the IP datagram portion of the packet. Which of the following should the analyst implement to authenticate the entire packet?

A. AH

B. ESP

C. SRTP

D. LDAP

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

Reference: <https://www.ibm.com/docs/en/zos/2.2.0?topic=ipsec-ah-esp-protocols>

**QUESTION 122**

The process of passively gathering information prior to launching a cyberattack is called:

A. tailgating.

B. reconnaissance.

C. pharming.

D. prepending.

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 123**

Which of the following types of controls is a turnstile?

- A. Physical
- B. Detective
- C. Corrective
- D. Technical

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 124

A Chief Information Security Officer (CISO) is concerned about the organization's ability to continue business operations in the event of a prolonged DDoS attack on its local datacenter that consumes database resources. Which of the following will the CISO MOST likely recommend to mitigate this risk?

- A. Upgrade the bandwidth available into the datacenter.
- B. Implement a hot-site failover location.
- C. Switch to a complete SaaS offering to customers.
- D. Implement a challenge response test on all end-user queries.

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 125

A company's Chief Information Security Officer (CISO) recently warned the security manager that the company's Chief Executive Officer (CEO) is planning to publish a controversial opinion article in a national newspaper, which may result in new cyberattacks. Which of the following would be BEST for the security manager to use in a threat model?

- A. Hacktivists
- B. White-hat hackers
- C. Script kiddies
- D. Insider threats

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 126

A multinational organization that offers web-based services has datacenters that are located only in the United States; however, a large number of its customers are in Australia, Europe, and China. Payments for services are managed by a third party in the United Kingdom that specializes in payment gateways. The management team is concerned the organization is not compliant with privacy laws that cover some of its customers. Which of the following frameworks should the management team follow?

- A. Payment Card Industry Data Security Standard
- B. Cloud Security Alliance Best Practices
- C. ISO/IEC 27032 Cybersecurity Guidelines
- D. General Data Protection Regulation

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:****QUESTION 127**

A company just implemented a new telework policy that allows employees to use personal devices for official email and file sharing while working from home. Some of the requirements are: Employees must provide an alternate work location (i.e., a home address). Employees must install software on the device that will prevent the loss of proprietary data but will not restrict any other software from being installed. Which of the following BEST describes the MDM options the company is using?

- A. Geofencing, content management, remote wipe, containerization, and storage segmentation
- B. Content management, remote wipe, geolocation, context-aware authentication, and containerization
- C. Application management, remote wipe, geofencing, context-aware authentication, and containerization
- D. Remote wipe, geolocation, screen locks, storage segmentation, and full-device encryption

**Correct Answer: C**

**Section: (none)**

**Explanation**

**Explanation/Reference:****QUESTION 128**

A security administrator needs to inspect in-transit files on the enterprise network to search for PII, credit card data, and classification words. Which of the following would be the BEST to use?

- A. IDS solution
- B. EDR solution
- C. HIPS software solution
- D. Network DLP solution

**Correct Answer: D**

**Section: (none)**

**Explanation**

**Explanation/Reference:****QUESTION 129**

A security researcher is attempting to gather data on the widespread use of a zero-day exploit. Which of the following will the researcher MOST likely use to capture this data?

- A. A DNS sinkhole
- B. A honeypot
- C. A vulnerability scan
- D. CVSS

**Correct Answer: B**

**Section: (none)**

**Explanation**

**Explanation/Reference:****QUESTION 130**

A company has decided to move its operations to the cloud. It wants to utilize technology that will prevent users from downloading company applications for personal use, restrict data that is uploaded, and have visibility into which applications are being used across the company. Which of the following solutions will BEST meet these requirements?

- A. An NGFW
- B. A CASB
- C. Application whitelisting
- D. An NG-SWG

**Correct Answer:** C  
**Section:** (none)  
**Explanation**

**Explanation/Reference:**

**QUESTION 131**

A manufacturer creates designs for very high security products that are required to be protected and controlled by the government regulations. These designs are not accessible by corporate networks or the Internet. Which of the following is the BEST solution to protect these designs?

- A. An air gap
- B. A Faraday cage
- C. A shielded cable
- D. A demilitarized zone

**Correct Answer:** A  
**Section:** (none)  
**Explanation**

**Explanation/Reference:**

**QUESTION 132**

A website developer is working on a new e-commerce website and has asked an information security expert for the most appropriate way to store credit card numbers to create an easy reordering process. Which of the following methods would BEST accomplish this goal?

- A. Salting the magnetic strip information
- B. Encrypting the credit card information in transit
- C. Hashing the credit card numbers upon entry
- D. Tokenizing the credit cards in the database

**Correct Answer:** C  
**Section:** (none)  
**Explanation**

**Explanation/Reference:**

**QUESTION 133**

A security operations analyst is using the company's SIEM solution to correlate alerts. Which of the following stages of the incident response process is this an example of?

- A. Eradiction
- B. Recovery
- C. Identification
- D. Preparation

**Correct Answer:** C  
**Section:** (none)  
**Explanation**

**Explanation/Reference:**

Explanation:

Reference: <https://digitalguardian.com/blog/five-steps-incident-response>

**QUESTION 134**

An employee has been charged with fraud and is suspected of using corporate assets. As authorities collect evidence, and to preserve the admissibility of the evidence, which of the following forensic techniques should be used?

- A. Order of volatility
- B. Data recovery
- C. Chain of custody
- D. Non-repudiation

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 135**

The lessons-learned analysis from a recent incident reveals that an administrative office worker received a call from someone claiming to be from technical support. The caller convinced the office worker to visit a website, and then download and install a program masquerading as an antivirus package. The program was actually a backdoor that an attacker could later use to remote control the worker's PC. Which of the following would be BEST to help prevent this type of attack in the future?

- A. Data loss prevention
- B. Segmentation
- C. Application whitelisting
- D. Quarantine

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 136**

Which of the following BEST explains the difference between a data owner and a data custodian?

- A. The data owner is responsible for adhering to the rules for using the data, while the data custodian is responsible for determining the corporate governance regarding the data
- B. The data owner is responsible for determining how the data may be used, while the data custodian is responsible for implementing the protection to the data
- C. The data owner is responsible for controlling the data, while the data custodian is responsible for maintaining the chain of custody when handling the data
- D. The data owner grants the technical permissions for data access, while the data custodian maintains the database access controls to the data

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 137**

Which of the following would be BEST to establish between organizations to define the responsibilities of each party, outline the key deliverables, and include monetary penalties for breaches to manage third-party risk?

- A. An ARO
- B. An MOU
- C. An SLA
- D. A BPA

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**



**QUESTION 138**

A RAT that was used to compromise an organization's banking credentials was found on a user's computer. The RAT evaded antivirus detection. It was installed by a user who has local administrator rights to the system as part of a remote management tool set. Which of the following recommendations would BEST prevent this from reoccurring?

- A. Create a new acceptable use policy.
- B. Segment the network into trusted and untrusted zones.
- C. Enforce application whitelisting.
- D. Implement DLP at the network boundary.

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 139**

A security administrator suspects an employee has been emailing proprietary information to a competitor. Company policy requires the administrator to capture an exact copy of the employee's hard disk. Which of the following should the administrator use?

- A. dd
- B. chmod
- C. dnsenum
- D. logger

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

VCEUp

**QUESTION 140**

An analyst needs to identify the applications a user was running and the files that were open before the user's computer was shut off by holding down the power button. Which of the following would MOST likely contain that information?

- A. NGFW
- B. Pagefile
- C. NetFlow
- D. RAM

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 141**

A manufacturing company has several one-off legacy information systems that cannot be migrated to a newer OS due to software compatibility issues. The OSs are still supported by the vendor, but the industrial software is no longer supported.

The Chief Information Security Officer (CISO) has created a resiliency plan for these systems that will allow OS patches to be installed in a non-production environment, while also creating backups of the systems for recovery. Which of the following resiliency techniques will provide these capabilities?

- A. Redundancy
- B. RAID 1+5
- C. Virtual machines
- D. Full backups

**Correct Answer:** A

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 142**

A cybersecurity administrator has a reduced team and needs to operate an on-premises network and security infrastructure efficiently. To help with the situation, the administrator decides to hire a service provider. Which of the following should the administrator use?

- A. SDP
- B. AAA
- C. IaaS
- D. MSSP
- E. Microservices

**Correct Answer: D**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 143**

A consultant is configuring a vulnerability scanner for a large, global organization in multiple countries. The consultant will be using a service account to scan systems with administrative privileges on a weekly basis, but there is a concern that hackers could gain access to the account and pivot throughout the global network. Which of the following would be BEST to help mitigate this concern?

- A. Create different accounts for each region, each configured with push MFA notifications.
- B. Create one global administrator account and enforce Kerberos authentication.
- C. Create different accounts for each region, limit their logon times, and alert on risky logins.
- D. Create a guest account for each region, remember the last ten passwords, and block password reuse.

**Correct Answer: A**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 144**

A major political party experienced a server breach. The hacker then publicly posted stolen internal communications concerning campaign strategies to give the opposition party an advantage. Which of the following BEST describes these threat actors?

- A. Semi-authorized hackers
- B. State actors
- C. Script kiddies
- D. Advanced persistent threats

**Correct Answer: B**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

Explanation:

Reference: <https://www.baesystems.com/en/cybersecurity/feature/the-nation-stateactor#:~:text=The%20Nation%20State%20Actor%20has%20a%20'Licence%20to%20Hack',incidents%20that%20have%20international%20significance> .

**QUESTION 145**

A small business just recovered from a ransomware attack against its file servers by purchasing the decryption keys from the attackers. The issue was triggered by a phishing email and the IT administrator wants to ensure it does not happen again.

Which of the following should the IT administrator do FIRST after recovery?

- A. Scan the NAS for residual or dormant malware and take new daily backups that are tested on a frequent basis.
- B. Restrict administrative privileges and patch all systems and applications.
- C. Rebuild all workstations and install new antivirus software.
- D. Implement application whitelisting and perform user application hardening.

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 146

The Chief Executive Officer (CEO) of an organization would like staff members to have the flexibility to work from home anytime during business hours, including during a pandemic or crisis. However, the CEO is concerned that some staff members may take advantage of the flexibility and work from high-risk countries while on holiday or outsource work to a third-party organization in another country. The Chief Information Officer (CIO) believes the company can implement some basic controls to mitigate the majority of the risk. Which of the following would be BEST to mitigate the CEO's concerns? (Choose two.)

- A. Geolocation
- B. Time-of-day restrictions
- C. Certificates
- D. Tokens
- E. Geotagging
- F. Role-based access controls

**Correct Answer:** AB

**Section:** (none)

**Explanation**

**Explanation/Reference:**



#### QUESTION 147

A Chief Security Officer (CSO) is concerned about the volume and integrity of sensitive information that is exchanged between the organization and a third party through email. The CSO is particularly concerned about an unauthorized party who is intercepting information that is in transit between the two organizations. Which of the following would address the CSO's concerns?

- A. SPF
- B. DMARC
- C. SSL
- D. DKIM
- E. TLS

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

Reference: <https://www.sparkpost.com/resources/email-explained/dkim-domainkeys-identified-mail/>

#### QUESTION 148

Which of the following would cause a Chief Information Security Officer (CISO) the MOST concern regarding newly installed Internet-accessible 4K surveillance cameras?

- A. An inability to monitor 100% of every facility could expose the company to unnecessary risk.
- B. The cameras could be compromised if not patched in a timely manner.
- C. Physical security at the facility may not protect the cameras from theft.
- D. Exported videos may take up excessive space on the file servers.

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 149**

A cybersecurity analyst reviews the log files from a web server and sees a series of files that indicate a directory-traversal attack has occurred. Which of the following is the analyst MOST likely seeing?

- A. `http://sample.url.com/`
- B. `http://sample.url.com/someotherpageonsite/../../../../etc/shadow`
- C. `http://sample.url.com/select-from-database-where-password-null`
- D. `http://redirect.sameple.url.sampleurl.com/malicious-dns-redirect`

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 150**

An organization has implemented a policy requiring the use of conductive metal lockboxes for personal electronic devices outside of a secure research lab. Which of the following did the organization determine to be the GREATEST risk to intellectual property when creating this policy?

- A. The theft of portable electronic devices
- B. Geotagging in the metadata of images
- C. Bluesnarfing of mobile devices
- D. Data exfiltration over a mobile hotspot

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 151**

An incident, which is affecting dozens of systems, involves malware that reaches out to an Internet service for rules and updates. The IP addresses for the Internet host appear to be different in each case. The organization would like to determine a common IoC to support response and recovery actions. Which of the following sources of information would BEST support this solution?

- A. Web log files
- B. Browser cache
- C. DNS query logs
- D. Antivirus

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 152**

An organization has hired a security analyst to perform a penetration test. The analyst captures 1Gb worth of inbound network traffic to the server and transfers the pcap back to the machine for analysis. Which of the following tools should the analyst use to further review the pcap?

- A. Nmap

- B. cURL
- C. Netcat
- D. Wireshark

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 153**

Which of the following are the MOST likely vectors for the unauthorized or unintentional inclusion of vulnerable code in a software company's final software releases? (Choose two.)

- A. Unsecure protocols
- B. Use of penetration-testing utilities
- C. Weak passwords
- D. Included third-party libraries
- E. Vendors/supply chain
- F. Outdated anti-malware software

**Correct Answer:** AC

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 154**

Company engineers regularly participate in a public Internet forum with other engineers throughout the industry. Which of the following tactics would an attacker MOST likely use in this scenario?

- A. Watering-hole attack
- B. Credential harvesting
- C. Hybrid warfare
- D. Pharming

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 155**

After a phishing scam for a user's credentials, the red team was able to craft a payload to deploy on a server. The attack allowed the installation of malicious software that initiates a new remote session. Which of the following types of attacks has occurred?

- A. Privilege escalation
- B. Session replay
- C. Application programming interface
- D. Directory traversal

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 156**

A security analyst discovers that a company's username and password database was posted on an Internet forum. The usernames and passwords are stored in plain text. Which of the following would mitigate the damage done by this type of data exfiltration in the future?

- A. Create DLP controls that prevent documents from leaving the network.
- B. Implement salting and hashing.
- C. Configure the web content filter to block access to the forum.
- D. Increase password complexity requirements.

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 157**

Which of the following should a data owner require all personnel to sign to legally protect intellectual property?

- A. An NDA
- B. An AUP
- C. An ISA
- D. An MOU

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

VCEUp

**QUESTION 158**

A global pandemic is forcing a private organization to close some business units and reduce staffing at others. Which of the following would be BEST to help the organization's executives determine their next course of action?

- A. An incident response plan
- B. A communications plan
- C. A disaster recovery plan
- D. A business continuity plan

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 159**

A security analyst is investigating an incident that was first reported as an issue connecting to network shares and the Internet. While reviewing logs and tool output, the analyst sees the following:

IP address	Physical address
10.0.0.1	00-18-21-ad-24-bc
10.0.0.114	01-31-a3-cd-23-ab
10.0.0.115	00-18-21-ad-24-bc
10.0.0.116	00-19-08-ba-07-da
10.0.0.117	01-12-21-ca-11-ad

Which of the following attacks has occurred?

- A. IP conflict
- B. Pass-the-hash
- C. MAC flooding
- D. Directory traversal
- E. ARP poisoning

**Correct Answer:** E

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 160

During an incident response, a security analyst observes the following log entry on the web server:

```
GET http://www.companysite.com/product_info.php?show=../../../../etc/passwd HTTP/1.1
Host: www.companysite.com
```

Which of the following BEST describes the type of attack the analyst is experiencing?

- A. SQL injection
- B. Cross-site scripting
- C. Pass-the-hash
- D. Directory traversal

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

VCEUp

#### QUESTION 161

A user must introduce a password and a USB key to authenticate against a secure computer, and authentication is limited to the state in which the company resides. Which of the following authentication concepts are in use?

- A. Something you know, something you have, and somewhere you are
- B. Something you know, something you can do, and somewhere you are
- C. Something you are, something you know, and something you can exhibit
- D. Something you have, somewhere you are, and someone you know

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 162

A security analyst sees the following log output while reviewing web logs:

```
[02/Feb2019:03:39:21 -0000] 23.35.212.99 12.59.34.88 - "GET /uri/input.action?query=%2f..%2f..%2f..%2fetc%2fpasswd HTTP/1.0" 80 200 200
[02/Feb2019:03:39:85 -0000] 23.35.212.99 12.59.34.88 - "GET /uri/input.action?query=../../../../etc/passwd HTTP/1.0" 80 200 200
```

Which of the following mitigation strategies would be BEST to prevent this attack from being successful?

- A. Secure cookies
- B. Input validation
- C. Code signing
- D. Stored procedures

**Correct Answer:** A  
**Section:** (none)  
**Explanation**

**Explanation/Reference:**

**QUESTION 163**

An organization suffered an outage, and a critical system took 90 minutes to come back online. Though there was no data loss during the outage, the expectation was that the critical system would be available again within 60 minutes. Which of the following is the 60-minute expectation an example of?

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

**Correct Answer:** D  
**Section:** (none)  
**Explanation**

**Explanation/Reference:**

**QUESTION 164**

Which of the following will provide the BEST physical security countermeasures to stop intruders? (Choose two.)

- A. Alarms
- B. Signage
- C. Lighting
- D. Mantraps
- E. Fencing
- F. Sensors

**Correct Answer:** EF  
**Section:** (none)  
**Explanation**

**Explanation/Reference:**

**QUESTION 165**

Which of the following would be BEST for a technician to review to determine the total risk an organization can bear when assessing a “cloud-first” adoption strategy?

- A. Risk matrix
- B. Risk tolerance
- C. Risk register
- D. Risk appetite

**Correct Answer:** B  
**Section:** (none)  
**Explanation**

**Explanation/Reference:**

**QUESTION 166**

Entering a secure area requires passing through two doors, both of which require someone who is already inside to initiate access. Which of the following types of physical security controls does this describe?



- A. Cameras
- B. Faraday cage
- C. Access control vestibule
- D. Sensors
- E. Guards

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 167

A company's bank has reported that multiple corporate credit cards have been stolen over the past several weeks. The bank has provided the names of the affected cardholders to the company's forensics team to assist in the cyber-incident investigation.

An incident responder learns the following information:

The timeline of stolen card numbers corresponds closely with affected users making Internet-based purchases from diverse websites via enterprise desktop PCs.

All purchase connections were encrypted, and the company uses an SSL inspection proxy for the inspection of encrypted traffic of the hardwired network. Purchases made with corporate cards over the corporate guest WiFi network, where no SSL inspection occurs, were unaffected.

Which of the following is the MOST likely root cause?

- A. HTTPS sessions are being downgraded to insecure cipher suites
- B. The SSL inspection proxy is feeding events to a compromised SIEM
- C. The payment providers are insecurely processing credit card charges
- D. The adversary has not yet established a presence on the guest WiFi network

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 168

The website <http://companywebsite.com> requires users to provide personal information, including security question responses, for registration. Which of the following would MOST likely cause a data breach?

- A. Lack of input validation
- B. Open permissions
- C. Unsecure protocol
- D. Missing patches

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 169

A network engineer has been asked to investigate why several wireless barcode scanners and wireless computers in a warehouse have intermittent connectivity to the shipping server. The barcode scanners and computers are all on forklift trucks and move around the warehouse during their regular use. Which of the following should the engineer do to determine the issue? (Choose two.)

- A. Perform a site survey
- B. Deploy an FTK Imager
- C. Create a heat map
- D. Scan for rogue access points
- E. Upgrade the security protocols

F. Install a captive portal

**Correct Answer:** AC

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 170**

On which of the following is the live acquisition of data for forensic analysis MOST dependent? (Choose two.)

- A. Data accessibility
- B. Legal hold
- C. Cryptographic or hash algorithm
- D. Data retention legislation
- E. Value and volatility of data
- F. Right-to-audit clauses

**Correct Answer:** EF

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 171**

A Chief Security Officer (CSO) is concerned about the amount of PII that is stored locally on each salesperson's laptop. The sales department has a higher-than-average rate of lost equipment. Which of the following recommendations would BEST address the CSO's concern?

- A. Deploy an MDM solution.
- B. Implement managed FDE.
- C. Replace all hard drives with SEDs.
- D. Install DLP agents on each laptop.

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 172**

A university is opening a facility in a location where there is an elevated risk of theft. The university wants to protect the desktops in its classrooms and labs. Which of the following should the university use to BEST protect these assets deployed in the facility?

- A. Visitor logs
- B. Cable locks
- C. Guards
- D. Disk encryption
- E. Motion detection

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 173**

A security analyst is reviewing the following command-line output:

```

Internet address      Physical address      Type
192.168.1.1           aa-bb-cc-00-11-22     dynamic
192.168.1.2           aa-bb-cc-00-11-22     dynamic
192.168.1.3           aa-bb-cc-00-11-22     dynamic
192.168.1.4           aa-bb-cc-00-11-22     dynamic
192.168.1.5           aa-bb-cc-00-11-22     dynamic
---output omitted---
--
192.168.1.251         aa-bb-cc-00-11-22     dynamic
192.168.1.252         aa-bb-cc-00-11-22     dynamic
192.168.1.253         aa-bb-cc-00-11-22     dynamic
192.168.1.254         aa-bb-cc-00-11-22     dynamic
192.168.1.255         ff-ff-ff-ff-ff-ff     static

```

Which of the following is the analyst observing?

- A. ICMP spoofing
- B. URL redirection
- C. MAC address cloning
- D. DNS poisoning

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 174**

A worldwide manufacturing company has been experiencing email account compromises. In one incident, a user logged in from the corporate office in France, but then seconds later, the same user account attempted a login from Brazil. Which of the following account policies would BEST prevent this type of attack?

- A. Network location
- B. Impossible travel time
- C. Geolocation
- D. Geofencing

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 175**

A university with remote campuses, which all use different service providers, loses Internet connectivity across all locations.

After a few minutes, Internet and VoIP services are restored, only to go offline again at random intervals, typically within four minutes of services being restored. Outages continue throughout the day, impacting all inbound and outbound connections and services. Services that are limited to the local LAN or WiFi network are not impacted, but all WAN and VoIP services are affected.

Later that day, the edge-router manufacturer releases a CVE outlining the ability of an attacker to exploit the SIP protocol handling on devices, leading to resource exhaustion and system reloads. Which of the following BEST describe this type of attack? (Choose two.)

- A. DoS
- B. SSL stripping
- C. Memory leak
- D. Race condition

- E. Shimming
- F. Refactoring

**Correct Answer:** AD

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 176

A vulnerability assessment report will include the CVSS score of the discovered vulnerabilities because the score allows the organization to better:

- A. validate the vulnerability exists in the organization's network through penetration testing.
- B. research the appropriate mitigation techniques in a vulnerability database.
- C. find the software patches that are required to mitigate a vulnerability.
- D. prioritize remediation of vulnerabilities based on the possible impact.

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 177

A developer is building a new portal to deliver single-pane-of-glass management capabilities to customers with multiple firewalls. To improve the user experience, the developer wants to implement an authentication and authorization standard that uses security tokens that contain assertions to pass user information between nodes. Which of the following roles should the developer configure to meet these requirements? (Choose two.)

- A. Identity processor
- B. Service requestor
- C. Identity provider
- D. Service provider
- E. Tokenized resource
- F. Notarized referral

**Correct Answer:** CE

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 178

Which of the following environments would MOST likely be used to assess the execution of component parts of a system at both the hardware and software levels and to measure performance characteristics?

- A. Test
- B. Staging
- C. Development
- D. Production

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 179

The Chief Financial Officer (CFO) of an insurance company received an email from Ann, the company's Chief Executive Officer (CEO), requesting a transfer of \$10,000 to an account. The email states Ann is on vacation and has lost her purse, containing cash and credit cards. Which of the following social-engineering techniques is the attacker using?

- A. Phishing
- B. Whaling
- C. Typo squatting
- D. Pharming

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 180

Which of the following BEST describes the MFA attribute that requires a callback on a predefined landline?

- A. Something you exhibit
- B. Something you can do
- C. Something you know
- D. Something you are

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 181

A Chief Information Security Officer (CISO) needs to create a policy set that meets international standards for data privacy and sharing. Which of the following should the CISO read and understand before writing the policies?

- A. PCI DSS
- B. GDPR
- C. NIST
- D. ISO 31000

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 182

An organization recently acquired an ISO 27001 certification. Which of the following would MOST likely be considered a benefit of this certification?

- A. It allows for the sharing of digital forensics data across organizations.
- B. It provides insurance in case of a data breach.
- C. It provides complimentary training and certification resources to IT security staff.
- D. It certifies the organization can work with foreign entities that require a security clearance.
- E. It assures customers that the organization meets security standards.

**Correct Answer:** E

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:  
Reference: <https://www.iso.org/standard/54534.html>

**QUESTION 183**

A network engineer is troubleshooting wireless network connectivity issues that were reported by users. The issues are occurring only in the section of the building that is closest to the parking lot. Users are intermittently experiencing slow speeds when accessing websites and are unable to connect to network drives. The issues appear to increase when laptop users return to their desks after using their devices in other areas of the building. There have also been reports of users being required to enter their credentials on web pages in order to gain access to them. Which of the following is the MOST likely cause of this issue?

- A. An external access point is engaging in an evil-twin attack.
- B. The signal on the WAP needs to be increased in that section of the building.
- C. The certificates have expired on the devices and need to be reinstalled.
- D. The users in that section of the building are on a VLAN that is being blocked by the firewall.

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 184**

A security engineer has enabled two-factor authentication on all workstations. Which of the following approaches are the MOST secure? (Choose two.)

- A. Password and security question
- B. Password and CAPTCHA
- C. Password and smart card
- D. Password and fingerprint
- E. Password and one-time token
- F. Password and voice

**Correct Answer:** CD

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 185**

A security analyst is reviewing a new website that will soon be made publicly available. The analyst sees the following in the URL: <http://dev-site.comptia.org/home/show.php?sessionID=77276554&loc=us> The analyst then sends an internal user a link to the new website for testing purposes, and when the user clicks the link, the analyst is able to browse the website with the following URL: <http://dev-site.comptia.org/home/show.php?sessionID=98988475&loc=us> Which of the following application attacks is being tested?

- A. Pass-the-hash
- B. Session replay
- C. Object deference
- D. Cross-site request forgery

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 186**

An organization's Chief Security Officer (CSO) wants to validate the business's involvement in the incident response plan to ensure its validity and thoroughness. Which of the following will the CSO MOST likely use?

- A. An external security assessment
- B. A bug bounty program

- C. A tabletop exercise
- D. A red-team engagement

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

Reference: <https://www.redlegg.com/solutions/advisory-services/tabletop-exercise-pretty-much-everything-you-need-to-know>

#### QUESTION 187

Which of the following should be put in place when negotiating with a new vendor about the timeliness of the response to a significant outage or incident?

- A. MOU
- B. MTTR
- C. SLA
- D. NDA

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 188

The facilities supervisor for a government agency is concerned about unauthorized access to environmental systems in the event the staff WiFi network is breached. Which of the following would BEST address this security concern?

- A. Install a smart meter on the staff WiFi.
- B. Place the environmental systems in the same DHCP scope as the staff WiFi.
- C. Implement Zigbee on the staff WiFi access points.
- D. Segment the staff WiFi network from the environmental systems network.

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 189

Which of the following refers to applications and systems that are used within an organization without consent or approval?

- A. Shadow IT
- B. OSINT
- C. Dark web
- D. Insider threats

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 190

Several employees return to work the day after attending an industry trade show. That same day, the security manager notices several malware alerts coming from each of the employee's workstations. The security manager investigates but finds no signs of an attack on the perimeter firewall or the NIDS. Which of the following is MOST likely causing the malware alerts?

- A. A worm that has propagated itself across the intranet, which was initiated by presentation media
- B. A fileless virus that is contained on a vCard that is attempting to execute an attack
- C. A Trojan that has passed through and executed malicious code on the hosts
- D. A USB flash drive that is trying to run malicious code but is being blocked by the host firewall

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 191

An analyst is trying to identify insecure services that are running on the internal network. After performing a port scan, the analyst identifies that a server has some insecure services enabled on default ports. Which of the following BEST describes the services that are currently running and the secure alternatives for replacing them? (Choose three.)

- A. SFTP, FTPS
- B. SNMPv2, SNMPv3
- C. HTTP, HTTPS
- D. TFTP, FTP
- E. SNMPv1, SNMPv2
- F. Telnet, SSH
- G. TLS, SSL
- H. POP, IMAP I. Login, rlogin

**Correct Answer:** BCF

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 192

Which of the following types of controls is a CCTV camera that is not being monitored?

- A. Detective
- B. Deterrent
- C. Physical
- D. Preventive

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

Reference: <https://www.sciencedirect.com/topics/computer-science/detective-control>

#### QUESTION 193

In which of the following risk management strategies would cybersecurity insurance be used?

- A. Transference
- B. Avoidance
- C. Acceptance
- D. Mitigation

**Correct Answer:** A



**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 194**

A security analyst is reviewing output of a web server log and notices a particular account is attempting to transfer large amounts of money:

```
GET http://yourbank.com/transfer.do?acctnum=087646958&amount=500000 HTTP/1.1
GET http://yourbank.com/transfer.do?acctnum=087646958&amount=5000000 HTTP/1.1
GET http://yourbank.com/transfer.do?acctnum=087646958&amount=1000000 HTTP/1.1
GET http://yourbank.com/transfer.do?acctnum=087646958&amount=500 HTTP/1.1
```

Which of the following types of attack is MOST likely being conducted?

- A. SQLi
- B. CSRF
- C. Session replay
- D. API

**Correct Answer: B**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

Explanation:

Reference: [https://owasp.org/wwwcommunity/attacks/csrf#:~:text=Cross%2DSite%20Request%20Forgery%20\(CSRF,which%20they're%20currently%20authenticated.&text=If%20the%20victim%20is%20an,compromise%20the%20entire%20web%20application](https://owasp.org/wwwcommunity/attacks/csrf#:~:text=Cross%2DSite%20Request%20Forgery%20(CSRF,which%20they're%20currently%20authenticated.&text=If%20the%20victim%20is%20an,compromise%20the%20entire%20web%20application)

**QUESTION 195**

A database administrator needs to ensure all passwords are stored in a secure manner, so the administrator adds randomly generated data to each password before storing. Which of the following techniques BEST explains this action?

- A. Predictability
- B. Key stretching
- C. Salting
- D. Hashing

**Correct Answer: C**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 196**

A company recently moved sensitive videos between on-premises, company-owned websites. The company then learned the videos had been uploaded and shared to the Internet. Which of the following would MOST likely allow the company to find the cause?

- A. Checksums
- B. Watermarks
- C. Order of volatility
- D. A log analysis
- E. A right-to-audit clause

**Correct Answer: E**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 197**

A security analyst has been reading about a newly discovered cyberattack from a known threat actor. Which of the following would BEST support the analyst's review of the tactics, techniques, and protocols the threat actor was observed using in previous campaigns?

- A. Security research publications
- B. The MITRE ATT&CK framework
- C. The Diamond Model of Intrusion Analysis
- D. The Cyber Kill Chain

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

Reference: <https://www.rapid7.com/fundamentals/mitre-attack/>

**QUESTION 198**

A security assessment determines DES and 3DES are still being used on recently deployed production servers. Which of the following did the assessment identify?

- A. Unsecure protocols
- B. Default settings
- C. Open permissions
- D. Weak encryption

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 199**

A bank detects fraudulent activity on user's account. The user confirms transactions completed yesterday on the bank's website at <https://www.company.com>. A security analyst then examines the user's Internet usage logs and observes the following output:

```
date;username;url;destinationport;responsecode
2020-03-01;userann;http://www.company.org/;80;302
2020-03-01;userann;http://www.company.org/secure_login/;80;200
2020-03-01;userann;http://www.company.org/dashboard/;80;200
```

Which of the following has MOST likely occurred?

- A. Replay attack
- B. SQL injection
- C. SSL stripping
- D. Race conditions

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 200**

A security analyst needs to complete an assessment. The analyst is logged into a server and must use native tools to map services running on it to the server's listening ports. Which of the following tools can BEST accomplish this task?

- A. Netcat
- B. Netstat
- C. Nmap
- D. Nessus

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

Reference: <https://techtalk.gfi.com/scan-open-ports-in-windows-a-quick-guide/>

#### QUESTION 201

A new vulnerability in the SMB protocol on the Windows systems was recently discovered, but no patches are currently available to resolve the issue. The security administrator is concerned that servers in the company's DMZ will be vulnerable to external attack; however, the administrator cannot disable the service on the servers, as SMB is used by a number of internal systems and applications on the LAN. Which of the following TCP ports should be blocked for all external inbound connections to the DMZ as a workaround to protect the servers? (Choose two.)

- A. 135
- B. 139
- C. 143
- D. 161
- E. 443
- F. 445

**Correct Answer:** BF

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

Reference: <https://www.varonis.com/blog/smbport/#:~:text=SMB%20uses%20either%20IP%20port,top%20of%20a%20TCP%20stack> .

#### QUESTION 202

Users have been issued smart cards that provide physical access to a building. The cards also contain tokens that can be used to access information systems. Users can log in to any thin client located throughout the building and see the same desktop each time. Which of the following technologies are being utilized to provide these capabilities? (Choose two.)

- A. COPE
- B. VDI
- C. GPS
- D. TOTP
- E. RFID
- F. BYOD

**Correct Answer:** BE

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 203

A security analyst is preparing a threat brief for an upcoming internal penetration test. The analyst needs to identify a method for determining the tactics, techniques, and procedures of a threat actor against the organization's network. Which of the following will the analyst MOST likely use to accomplish the objective?

- A. A tabletop exercise
- B. NIST CSF
- C. MITRE ATT&CK

D. OWASP

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

Reference: <https://digitalguardian.com/blog/what-mitre-attck-framework>

**QUESTION 204**

A security analyst wants to verify that a client-server (non-web) application is sending encrypted traffic. Which of the following should the analyst use?

- A. openssl
- B. hping
- C. netcat
- D. tcpdump

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 205**

A Chief Security Office's (CSO's) key priorities are to improve preparation, response, and recovery practices to minimize system downtime and enhance organizational resilience to ransomware attacks. Which of the following would BEST meet the CSO's objectives?

- A. Use email-filtering software and centralized account management, patch high-risk systems, and restrict administration privileges on fileshares.
- B. Purchase cyber insurance from a reputable provider to reduce expenses during an incident.
- C. Invest in end-user awareness training to change the long-term culture and behavior of staff and executives, reducing the organization's susceptibility to phishing attacks.
- D. Implement application whitelisting and centralized event-log management, and perform regular testing and validation of full backups.

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 206**

Which of the following BEST describes a security exploit for which a vendor patch is not readily available?

- A. Integer overflow
- B. Zero-day
- C. End of life
- D. Race condition

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 207**

A global company is experiencing unauthorized logins due to credential theft and account lockouts caused by brute-force attacks. The company is considering implementing a third-party identity provider to help mitigate these attacks. Which of the following would be the BEST control for the company to require from prospective vendors?

- A. IP restrictions
- B. Multifactor authentication
- C. A banned password list
- D. A complex password policy

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 208

A financial organization has adopted a new secure, encrypted document-sharing application to help with its customer loan process. Some important PII needs to be shared across this new platform, but it is getting blocked by the DLP systems.

Which of the following actions will BEST allow the PII to be shared with the secure application without compromising the organization's security posture?

- A. Configure the DLP policies to allow all PII
- B. Configure the firewall to allow all ports that are used by this application
- C. Configure the antivirus software to allow the application
- D. Configure the DLP policies to whitelist this application with the specific PII
- E. Configure the application to encrypt the PII

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

VCEUp

#### QUESTION 209

A network administrator has been asked to install an IDS to improve the security posture of an organization. Which of the following control types is an IDS?

- A. Corrective
- B. Physical
- C. Detective
- D. Administrative

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 210

The manager who is responsible for a data set has asked a security engineer to apply encryption to the data on a hard disk.

The security engineer is an example of a:

- A. data controller.
- B. data owner.
- C. data custodian.
- D. data processor.

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:****QUESTION 211**

An enterprise needs to keep cryptographic keys in a safe manner. Which of the following network appliances can achieve this goal?

- A. HSM
- B. CASB
- C. TPM
- D. DLP

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

Reference: <https://www.techtarget.com/searchsecurity/definition/hardware-security-module-HSM>

**QUESTION 212**

A security analyst is using a recently released security advisory to review historical logs, looking for the specific activity that was outlined in the advisory. Which of the following is the analyst doing?

- A. A packet capture
- B. A user behavior analysis
- C. Threat hunting
- D. Credentialed vulnerability scanning

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:****QUESTION 213**

Several large orders of merchandise were recently purchased on an e-commerce company's website. The totals for each of the transactions were negative values, resulting in credits on the customers' accounts. Which of the following should be implemented to prevent similar situations in the future?

- A. Ensure input validation is in place to prevent the use of invalid characters and values.
- B. Calculate all possible values to be added together and ensure the use of the proper integer in the code.
- C. Configure the web application firewall to look for and block session replay attacks.
- D. Make sure transactions that are submitted within very short time periods are prevented from being processed.

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:****QUESTION 214**

A remote user recently took a two-week vacation abroad and brought along a corporate-owned laptop. Upon returning to work, the user has been unable to connect the laptop to the VPN. Which of the following is the MOST likely reason for the user's inability to connect the laptop to the VPN?

- A. Due to foreign travel, the user's laptop was isolated from the network.
- B. The user's laptop was quarantined because it missed the latest path update.
- C. The VPN client was blacklisted.
- D. The user's account was put on a legal hold.

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 215**

A company uses wireless for all laptops and keeps a very detailed record of its assets, along with a comprehensive list of devices that are authorized to be on the wireless network. The Chief Information Officer (CIO) is concerned about a script kiddie potentially using an unauthorized device to brute force the wireless PSK and obtain access to the internal network. Which of the following should the company implement to BEST prevent this from occurring?

- A. A BPDU guard
- B. WPA-EAP
- C. IP filtering
- D. A WIDS

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 216**

Under GDPR, which of the following is MOST responsible for the protection of privacy and website user rights?

- A. The data protection officer
- B. The data processor
- C. The data owner
- D. The data controller

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 217**

A security engineer obtained the following output from a threat intelligence source that recently performed an attack on the company's server:

```
GET index.php?page=..2f..2f..2f..2f..2f..2f..2f..2fetc2fpasswd
GET index.php?page=..2f..2f..2f..2f..2f..2f..2f..2f..2fetc2fpasswd
GET index.php?page=..2f..2f..2f..2f..2f..2f..2f..2f..2fetc2fpasswd
```

Which of the following BEST describes this kind of attack?

- A. Directory traversal
- B. SQL injection
- C. API
- D. Request forgery

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**



**QUESTION 218**

After installing a Windows server, a cybersecurity administrator needs to harden it, following security best practices. Which of the following will achieve the administrator's goal? (Choose two.)

- A. Disabling guest accounts
- B. Disabling service accounts
- C. Enabling network sharing
- D. Disabling NetBIOS over TCP/IP
- E. Storing LAN manager hash values
- F. Enabling NTLM

**Correct Answer:** AD

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 219**

A company is required to continue using legacy software to support a critical service. Which of the following BEST explains a risk of this practice?

- A. Default system configuration
- B. Unsecure protocols
- C. Lack of vendor support
- D. Weak encryption

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 220**

A security analyst needs to determine how an attacker was able to use User3 to gain a foothold within a company's network.

The company's lockout policy requires that an account be locked out for a minimum of 15 minutes after three unsuccessful attempts. While reviewing the log files, the analyst discovers the following:

```
3/16/20 3:31:10 AM Audit Failure: CompanyNetwork\User1 Unknown username or bad password.
3/16/20 3:31:11 AM Audit Failure: CompanyNetwork\User1 Unknown username or bad password.
3/16/20 3:31:12 AM Audit Failure: CompanyNetwork\User1 Unknown username or bad password.
3/16/20 3:31:13 AM Audit Failure: CompanyNetwork\User1 Account locked out.
3/16/20 3:31:14 AM Audit Failure: CompanyNetwork\User2 Unknown username or bad password.
3/16/20 3:31:15 AM Audit Failure: CompanyNetwork\User2 Unknown username or bad password.
3/16/20 3:31:16 AM Audit Failure: CompanyNetwork\User2 Unknown username or bad password.
3/16/20 3:31:18 AM Audit Failure: CompanyNetwork\User2 Account locked out.
3/16/20 3:31:19 AM Audit Failure: CompanyNetwork\User3 Unknown username or bad password.
3/16/20 3:31:20 AM Audit Failure: CompanyNetwork\User3 Unknown username or bad password.
3/16/20 3:31:22 AM Audit Success: CompanyNetwork\User3 Successful logon.
3/16/20 3:31:22 AM Audit Failure: CompanyNetwork\User4 Unknown username or bad password.
3/16/20 3:32:40 AM Audit Failure: CompanyNetwork\User4 Unknown username or bad password.
3/16/20 3:33:25 AM Audit Success: CompanyNetworkd\User4 Successful logon.
```

Which of the following attacks MOST likely occurred?

- A. Dictionary
- B. Credential-stuffing
- C. Password-spraying
- D. Brute-force

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**



**QUESTION 221**

A security administrator is analyzing the corporate wireless network. The network only has two access points running on channels 1 and 11. While using airodump-ng, the administrator notices other access points are running with the same corporate ESSID on all available channels and with the same BSSID of one of the legitimate access points. Which of the following attacks is happening on the corporate network?

- A. Man in the middle
- B. Evil twin
- C. Jamming
- D. Rogue access point
- E. Disassociation

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

Reference: [https://en.wikipedia.org/wiki/Evil\\_twin\\_\(wireless\\_networks\)](https://en.wikipedia.org/wiki/Evil_twin_(wireless_networks))

**QUESTION 222**

Which of the following threat actors is MOST likely to be motivated by ideology?

- A. Business competitor
- B. Hactivist
- C. Criminal syndicate
- D. Script kiddie
- E. Disgruntled employee

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

Reference: <https://www.redlegg.com/blog/cyber-threat-actor-types>

**QUESTION 223**

Which of the following will MOST likely adversely impact the operations of unpatched traditional programmable-logic controllers, running a back-end LAMP server and OT systems with human-management interfaces that are accessible over the Internet via a web interface? (Choose two.)

- A. Cross-site scripting
- B. Data exfiltration
- C. Poor system logging
- D. Weak encryption
- E. SQL injection
- F. Server-side request forgery

**Correct Answer:** DF

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 224**

Which of the following describes the ability of code to target a hypervisor from inside a guest OS?

- A. Fog computing
- B. VM escape

- C. Software-defined networking
- D. Image forgery
- E. Container breakout

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 225**

Which of the following would MOST likely support the integrity of a voting machine?

- A. Asymmetric encryption
- B. Blockchain
- C. Transport Layer Security
- D. Perfect forward secrecy

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 226**

A user is concerned that a web application will not be able to handle unexpected or random inputs without crashing. Which of the following BEST describes the type of testing the user should perform?

- A. Code signing
- B. Fuzzing
- C. Manual code review
- D. Dynamic code analysis

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 227**

In which of the following common use cases would steganography be employed?

- A. Obfuscation
- B. Integrity
- C. Non-repudiation
- D. Blockchain

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 228**

A company's Chief Information Officer (CIO) is meeting with the Chief Information Security Officer (CISO) to plan some activities to enhance the skill levels of the company's developers. Which of the following would be MOST suitable for training the developers?

- A. A capture-the-flag competition
- B. A phishing simulation
- C. Physical security training
- D. Basic awareness training

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 229**

An attacker is trying to gain access by installing malware on a website that is known to be visited by the target victims. Which of the following is the attacker MOST likely attempting?

- A. A spear-phishing attack
- B. A watering-hole attack
- C. Typo squatting
- D. A phishing attack

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 230**

A recent audit uncovered a key finding regarding the use of a specific encryption standard in a web application that is used to communicate with business customers. Due to the technical limitations of its customers, the company is unable to upgrade the encryption standard. Which of the following types of controls should be used to reduce the risk created by this scenario?

- A. Physical
- B. Detective
- C. Preventive
- D. Compensating

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 231**

A company processes highly sensitive data and senior management wants to protect the sensitive data by utilizing classification labels. Which of the following access control schemes would be BEST for the company to implement?

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

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 232**

A security analyst has received an alert about PII being sent via email. The analyst's Chief Information Security Officer (CISO) has made it clear that PII must be handled with extreme care. From which of the following did the alert MOST likely originate?

- A. S/MIME
- B. DLP
- C. IMAP
- D. HIDS

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 233**

Which of the following environments minimizes end-user disruption and MOST likely to be used to assess the impacts of any database migrations or major system changes by using the final version of the code?

- A. Staging
- B. Test
- C. Production
- D. Development

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

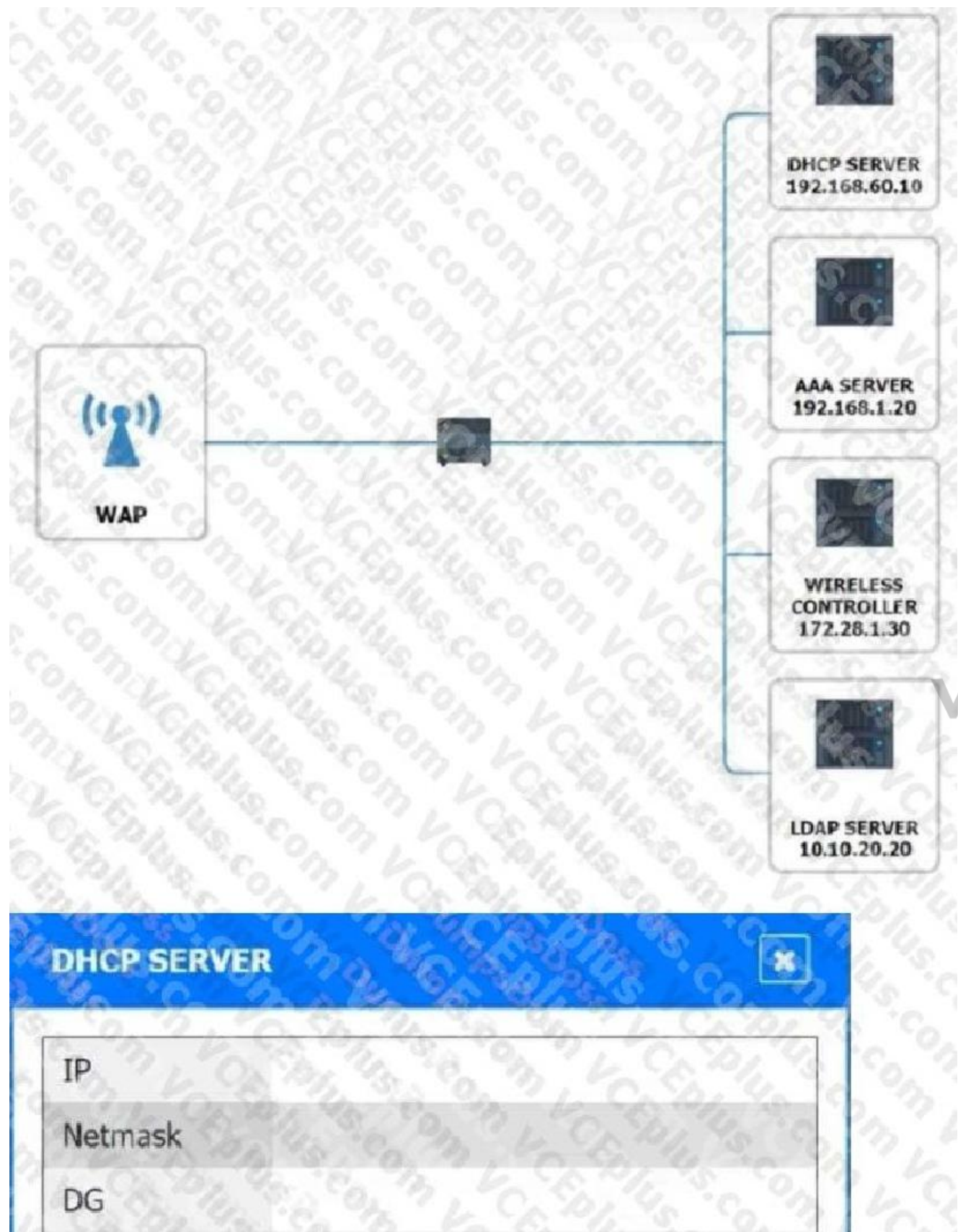
Reference: [https://searchsoftwarequality.techtarget.com/definition/stagingenvironment#:~:text=A%20staging%20environment%20\(stage\)%20is,like%20environment%20before%20application%20deployment](https://searchsoftwarequality.techtarget.com/definition/stagingenvironment#:~:text=A%20staging%20environment%20(stage)%20is,like%20environment%20before%20application%20deployment)

**QUESTION 234****SIMULATION**

A newly purchased corporate WAP needs to be configured in the MOST secure manner possible. INSTRUCTIONS Please click on the below items on the network diagram and configure them accordingly:

- WAP
- DHCP Server
- AAA Server
- Wireless Controller
- LDAP Server

If at any time you would like to bring back the initial state of the simulation, please click the Reset All button.



DG
Range
DNS Servers
Reserved
Reserved
Domain
Port



AAA SERVER

✕

IP
Netmask
DG
Secret
Realm
Port

WIRELESS CONTROLLER

✕

IP
NETMASK
DG
Admin User
Admin Password
WAP Key
Port

VCEup

**LDAP SERVER** ✕

IP
NETMASK
DG
Domain
Tree Name
Bind Password
Port

VCEup



Wireless Access Point

Basic Wireless Settings

Wireless Security

Wireless Network Mode:

Wireless Network Name(SSID):

Wireless Channel:

Wireless SSID Broadcast: ☒ enable ☐ disable

Save Settings

Wireless Access Point

Basic Wireless Settings

Wireless Security

Security Mode:

Security Mode:

RADIUS Server Address:

RADIUS Port:

Shared Key:

Default Transmit Key: 1 2 3 4

Wep Encryption:

Save Settings

A. See explanation below.


**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

**DHCP SERVER** 

IP	192.168.60.10
Netmask	255.255.255.0
DG	192.168.60.1
Range	10.50.7.0-10.50.8.255
DNS Servers	192.168.30.4, 192.168.40.4
Reserved	A1-27-CA-23-45-76-E3 10.50.7.5
Reserved	B3-47-A3-18-E7-7D-E2 10.50.7.6
Domain	corporatenet
Port	67

VCEUp

**AAA SERVER** 

IP	192.168.1.20
Netmask	255.255.255.0
DG	192.168.1.1
Secret	corporatenet
Realm	wirelessnet



Realm	wirelessnet
Port	1812

**WIRELESS CONTROLLER** ✕

IP	172.28.1.30
NETMASK	255.255.255.0
DG	172.28.1.1
Admin User	root
Admin Password	corporatenet
WAP Key	supersecret
Port	1212

**LDAP SERVER**

IP	10.10.20.20
NETMASK	255.255.255.0
DG	10.10.20.1
Domain	corporatenet
Tree Name	wirelessnet
Bind Password	secretpass
Port	389

**Wireless Access Point**

**Basic Wireless Settings** **Wireless Security**

Wireless Network Mode: MIXED

Wireless Network Name(SSID): DEFAULT

Wireless Channel: 1

Wireless SSID Broadcast: ☐ enable ☒ disable



Wireless SSID Broadcast: ☐ enable ☒ disable

Save Settings

**Wireless Access Point**

**Basic Wireless Settings** **Wireless Security**

Security Mode: RADIUS

RADIUS Server Address: 192.168.1.20

RADIUS Port: 1812

Shared Key: corporatenet

Default Transmit Key: ☒ 1 ☐ 2 ☐ 3 ☐ 4

Wep Encryption: 128 bits 26 hex digits

Save Settings

**QUESTION 235**

Which of the following BEST describes the method a security analyst would use to confirm a file that is downloaded from a trusted security website is not altered in transit or corrupted using a verified checksum?

- A. Hashing
- B. Salting
- C. Integrity
- D. Digital signature

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 236**

A security administrator suspects there may be unnecessary services running on a server. Which of the following tools will the administrator MOST likely use to confirm the suspicions?

- A. Nmap
- B. Wireshark
- C. Autopsy
- D. DNSEnum

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 237**

A user enters a password to log in to a workstation and is then prompted to enter an authentication code. Which of the following MFA factors or attributes are being utilized in the authentication process? (Choose two.)

- A. Something you know
- B. Something you have
- C. Somewhere you are
- D. Someone you know
- E. Something you are
- F. Something you can do

**Correct Answer:** AB

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 238**

After a ransomware attack, a forensics company needs to review a cryptocurrency transaction between the victim and the attacker. Which of the following will the company MOST likely review to trace this transaction?

- A. The public ledger
- B. The NetFlow data
- C. A checksum
- D. The event log

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:****QUESTION 239**

A security engineer is reviewing log files after a third party discovered usernames and passwords for the organization's accounts. The engineer sees there was a change in the IP address for a vendor website one week earlier. This change lasted eight hours. Which of the following attacks was MOST likely used?

- A. Man-in-the-middle
- B. Spear phishing
- C. Evil twin
- D. DNS poisoning

**Correct Answer: D**

**Section: (none)**

**Explanation**

**Explanation/Reference:****QUESTION 240**

An organization routes all of its traffic through a VPN. Most users are remote and connect into a corporate datacenter that houses confidential information. There is a firewall at the Internet border, followed by a DLP appliance, the VPN server, and the datacenter itself. Which of the following is the WEAKEST design element?

- A. The DLP appliance should be integrated into a NGFW
- B. Split-tunnel connections can negatively impact the DLP appliance's performance
- C. Encrypted VPN traffic will not be inspected when entering or leaving the network
- D. Adding two hops in the VPN tunnel may slow down remote connections

**Correct Answer: C**

**Section: (none)**

**Explanation**

**Explanation/Reference:****QUESTION 241**

The concept of connecting a user account across the systems of multiple enterprises is BEST known as:

- A. federation.
- B. a remote access policy.
- C. multifactor authentication.
- D. single sign-on.

**Correct Answer: A**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

Explanation:

Reference: <https://www.okta.com/identity-101/federated-identity-vssso/#:~:text=The%20key%20difference%20between%20SSO,of%20applications%20across%20various%20enterprises>

**QUESTION 242**

A company recently experienced a data breach and the source was determined to be an executive who was charging a phone in a public area. Which of the following would MOST likely have prevented this breach?

- A. A firewall
- B. A device pin
- C. A USB data blocker
- D. Biometrics



**Correct Answer:** C  
**Section:** (none)  
**Explanation**

**Explanation/Reference:**

**QUESTION 243**

A software developer needs to perform code-execution testing, black-box testing, and non-functional testing on a new product before its general release. Which of the following BEST describes the tasks the developer is conducting?

- A. Verification
- B. Validation
- C. Normalization
- D. Staging

**Correct Answer:** A  
**Section:** (none)  
**Explanation**

**Explanation/Reference:**

**QUESTION 244**

Which of the following would satisfy three-factor authentication?

- A. Password, retina scanner, and NFC card
- B. Password, fingerprint scanner, and retina scanner
- C. Password, hard token, and NFC card
- D. Fingerprint scanner, hard token, and retina scanner

**Correct Answer:** A  
**Section:** (none)  
**Explanation**

**Explanation/Reference:**

**QUESTION 245**

A company provides mobile devices to its users to permit access to email and enterprise applications. The company recently started allowing users to select from several different vendors and device models. When configuring the MDM, which of the following is a key security implication of this heterogeneous device approach?

- A. The most common set of MDM configurations will become the effective set of enterprise mobile security controls.
- B. All devices will need to support SCEP-based enrollment; therefore, the heterogeneity of the chosen architecture may unnecessarily expose private keys to adversaries.
- C. Certain devices are inherently less secure than others, so compensatory controls will be needed to address the delta between device vendors.
- D. MDMs typically will not support heterogeneous deployment environments, so multiple MDMs will need to be installed and configured.

**Correct Answer:** C  
**Section:** (none)  
**Explanation**

**Explanation/Reference:**

**QUESTION 246**

Following a prolonged datacenter outage that affected web-based sales, a company has decided to move its operations to a private cloud solution. The security team has received the following requirements:  
There must be visibility into how teams are using cloud-based services.

The company must be able to identify when data related to payment cards is being sent to the cloud.

Data must be available regardless of the end user's geographic location. Administrators need a single pane-of-glass view into traffic and trends.

Which of the following should the security analyst recommend?

- A. Create firewall rules to restrict traffic to other cloud service providers.
- B. Install a DLP solution to monitor data in transit.
- C. Implement a CASB solution.
- D. Configure a web-based content filter.

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 247

A cybersecurity department purchased a new PAM solution. The team is planning to randomize the service account credentials of the Windows servers first. Which of the following would be the BEST method to increase the security on the Linux servers?

- A. Randomize the shared credentials.
- B. Use only guest accounts to connect.
- C. Use SSH keys and remove generic passwords.
- D. Remove all user accounts.

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 248

A cybersecurity administrator needs to add disk redundancy for a critical server. The solution must have a two-drive failure for better fault tolerance. Which of the following RAID levels should the administrator select?

- A. 0
- B. 1
- C. 5
- D. 6

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 249

An organization plans to transition the intrusion detection and prevention techniques on a critical subnet to an anomalybased system. Which of the following does the organization need to determine for this to be successful?

- A. The baseline
- B. The endpoint configurations
- C. The adversary behavior profiles
- D. The IPS signatures

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 250**

A security incident may have occurred on the desktop PC of an organization's Chief Executive Officer (CEO). A duplicate copy of the CEO's hard drive must be stored securely to ensure appropriate forensic processes and the chain of custody are followed. Which of the following should be performed to accomplish this task?

- A. Install a new hard drive in the CEO's PC, and then remove the old hard drive and place it in a tamper-evident bag.
- B. Connect a write blocker to the hard drive. Then, leveraging a forensic workstation, utilize the dd command in a live Linux environment to create a duplicate copy.
- C. Remove the CEO's hard drive from the PC, connect to the forensic workstation, and copy all the contents onto a remote fileshare while the CEO watches.
- D. Refrain from completing a forensic analysis of the CEO's hard drive until after the incident is confirmed; duplicating the hard drive at this stage could destroy evidence.

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 251**

Which of the following policies would help an organization identify and mitigate potential single points of failure in the company's IT/security operations?

- A. Least privilege
- B. Awareness training
- C. Separation of duties
- D. Mandatory vacation

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

VCEUp

**QUESTION 252**

Which of the following is the BEST reason to maintain a functional and effective asset management policy that aids in ensuring the security of an organization?

- A. To provide data to quantify risk based on the organization's systems
- B. To keep all software and hardware fully patched for known vulnerabilities
- C. To only allow approved, organization-owned devices onto the business network
- D. To standardize by selecting one laptop model for all users in the organization

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 253**

Which of the following types of attacks is specific to the individual it targets?

- A. Whaling
- B. Pharming
- C. Smishing
- D. Credential harvesting

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 254**

An organization is developing a plan in the event of a complete loss of critical systems and data. Which of the following plans is the organization MOST likely developing?

- A. Incident response
- B. Communications
- C. Disaster recovery
- D. Data retention

**Correct Answer: C**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 255**

A startup company is using multiple SaaS and IaaS platforms to stand up a corporate infrastructure and build out a customer-facing web application. Which of the following solutions would be BEST to provide security, manageability, and visibility into the platforms?

- A. SIEM
- B. DLP
- C. CASB
- D. SWG

**Correct Answer: C**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 256**

A public relations team will be taking a group of guests on a tour through the facility of a large e-commerce company. The day before the tour, the company sends out an email to employees to ensure all whiteboards are cleaned and all desks are cleared. The company is MOST likely trying to protect against:

- A. loss of proprietary information.
- B. damage to the company's reputation.
- C. social engineering.
- D. credential exposure.

**Correct Answer: A**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 257**

An organization's help desk is flooded with phone calls from users stating they can no longer access certain websites. The help desk escalates the issue to the security team, as these websites were accessible the previous day. The security analysts run the following command: `ipconfig /flushdns`, but the issue persists. Finally, an analyst changes the DNS server for an impacted machine, and the issue goes away. Which of the following attacks MOST likely occurred on the original DNS server?

- A. DNS cache poisoning
- B. Domain hijacking
- C. Distributed denial-of-service
- D. DNS tunneling

**Correct Answer:** A  
**Section:** (none)  
**Explanation**

**Explanation/Reference:**

**QUESTION 258**

A security analyst needs to generate a server certificate to be used for 802.1X and secure RDP connections. The analyst is unsure what is required to perform the task and solicits help from a senior colleague. Which of the following is the FIRST step the senior colleague will most likely tell the analyst to perform to accomplish this task?

- A. Create an OCSP
- B. Generate a CSR.
- C. Create a CRL.
- D. Generate a .pfx file.

**Correct Answer:** B  
**Section:** (none)  
**Explanation**

**Explanation/Reference:**

**QUESTION 259**

Which of the following allows for functional test data to be used in new systems for testing and training purposes to protect the real data?

- A. Data encryption
- B. Data masking
- C. Data deduplication
- D. Data minimization

**Correct Answer:** B  
**Section:** (none)  
**Explanation**

**Explanation/Reference:**

**QUESTION 260**

To reduce and overhead, an organization wants to move from an on-premises email solution to a cloud-based email solution. At this time, no other services will be moving. Which of the following cloud models would BEST meet the needs of the organization?

- A. MaaS
- B. IaaS
- C. SaaS
- D. PaaS

**Correct Answer:** C  
**Section:** (none)  
**Explanation**

**Explanation/Reference:**

Explanation:

Reference: [https://rubygarage.org/blog/iaas-vs-paas-vssaas#:~:text=In%20fact%2C%20email%20services%20such,Pod\)%2C%20and%20so%20on](https://rubygarage.org/blog/iaas-vs-paas-vssaas#:~:text=In%20fact%2C%20email%20services%20such,Pod)%2C%20and%20so%20on)

**QUESTION 261**

A company has determined that if its computer-based manufacturing machinery is not functioning for 12 consecutive hours, it will lose more money than it costs to maintain the equipment. Which of the following must be less than 12 hours maintain a positive total cost of ownership?

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

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

Reference: <https://www.fiixsoftware.com/mean-time-between-fail-maintenance/>

#### QUESTION 262

A security administrator currently spends a large amount of time on common security tasks, such as report generation, phishing investigations, and user provisioning and deprovisioning. This prevents the administrator from spending time on other security projects. The business does not have the budget to add more staff members. Which of the following should the administrator attempt?

- A. DAC
- B. ABAC
- C. SCAP
- D. SOAR

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

Reference: <https://searchsecurity.techtarget.com/definition/SOAR>

#### QUESTION 263

A user received an SMS on a mobile phone that asked for bank details. Which of the following social-engineering techniques was used in this case?

- A. SPIM
- B. Vishing
- C. Spear phishing
- D. Smishing

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 264

A systems administrator is considering different backup solutions for the IT infrastructure. The company is looking for a solution that offers the fastest recovery time while also saving the most amount of storage used to maintain the backups.

Which of the following recovery solutions would be the BEST option to meet these requirements?

- A. Snapshot
- B. Differential
- C. Full
- D. Tape

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

Reference: <https://aceits.net/types-of-backup-and-what-data-should-be-backed-up/>

**QUESTION 265**

An organization has various applications that contain sensitive data hosted in the cloud. The company's leaders are concerned about lateral movement across applications of different trust levels. Which of the following solutions should the organization implement to address the concern?

- A. ISFW
- B. UTM
- C. SWG
- D. CASB

**Correct Answer: D**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 266**

A security analyst is running a vulnerability scan to check for missing patches during a suspected security incident. During which of the following phases of the response process is this activity MOST likely occurring?

- A. Containment
- B. Identification
- C. Recovery
- D. Preparation

**Correct Answer: B**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 267**

In the middle of a cyberattack, a security engineer removes the infected devices from the network and locks down all compromised accounts. In which of the following incident response phases is the security engineer currently operating?

- A. Identification
- B. Preparation
- C. Lessons learned
- D. Eradication
- E. Recovery
- F. Containment

**Correct Answer: F**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 268**

A forensics examiner is attempting to dump password cached in the physical memory of a live system but keeps receiving an error message. Which of the following BEST describes the cause of the error?

- A. The examiner does not have administrative privileges to the system.
- B. The system must be taken offline before a snapshot can be created.
- C. Checksum mismatches are invalidating the disk image.
- D. The swap file needs to be unlocked before it can be accessed.

**Correct Answer:** A  
**Section:** (none)  
**Explanation**

**Explanation/Reference:**

#### QUESTION 269

A retail executive recently accepted a job with a major competitor. The following week, a security analyst reviews the security logs and identifies successful logon attempts to access the departed executive's accounts. Which of the following security practices would have addressed the issue?

- A. A non-disclosure agreement
- B. Least privilege
- C. An acceptable use policy
- D. Offboarding

**Correct Answer:** D  
**Section:** (none)  
**Explanation**

**Explanation/Reference:**

#### QUESTION 270

A researcher has been analyzing large data sets for the last ten months. The researcher works with colleagues from other institutions and typically connects via SSH to retrieve additional data. Historically, this setup has worked without issue, but the researcher recently started getting the following message:

```
#####  
@  WARNING:  REMOTE HOST IDENTIFICATION HAS CHANGED!  @  
#####  
IT IS POSSIBLE THAT SOMEONE IS DOING SOMETHING NASTY!  
The fingerprint for the RSA key sent by the remote host is  
SHA256:cBqYjal6ToV3jEIJHUSKtjjVziqnVd4Cz+1fhTM6+k4.  
Please contact your system administrator.  
RSA host key for 18.231.33.78 has changed and you have requested strict checking.  
Host key verification failed.
```

Which of the following network attacks is the researcher MOST likely experiencing?

- A. MAC cloning
- B. Evil twin
- C. Man-in-the-middle
- D. ARP poisoning

**Correct Answer:** C  
**Section:** (none)  
**Explanation**

**Explanation/Reference:**

#### QUESTION 271

An organization needs to implement more stringent controls over administrator/root credentials and service accounts.

Requirements for the project include: Check-in/checkout of credentials The ability to use but not know the password Automated password changes Logging of access to credentials Which of the following solutions would meet the requirements?

- A. OAuth 2.0
- B. Secure Enclave
- C. A privileged access management system
- D. An OpenID Connect authentication system

**Correct Answer:** D



**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 272**

A small retail business has a local store and a newly established and growing online storefront. A recent storm caused a power outage to the business and the local ISP, resulting in several hours of lost sales and delayed order processing.

The business owner now needs to ensure two things:

Protection from power outages

Always-available connectivity in case of an outage

The owner has decided to implement battery backups for the computer equipment. Which of the following would BEST fulfill the owner's second need?

- A. Lease a point-to-point circuit to provide dedicated access.
- B. Connect the business router to its own dedicated UPS.
- C. Purchase services from a cloud provider for high availability.
- D. Replace the business's wired network with a wireless network.

**Correct Answer: C**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 273**

Which of the following distributes data among nodes, making it more difficult to manipulate the data while also minimizing downtime?

- A. MSSP
- B. Public cloud
- C. Hybrid cloud
- D. Fog computing

**Correct Answer: C**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 274**

An organization has decided to host its web application and database in the cloud. Which of the following BEST describes the security concerns for this decision?

- A. Access to the organization's servers could be exposed to other cloud-provider clients.
- B. The cloud vendor is a new attack vector within the supply chain.
- C. Outsourcing the code development adds risk to the cloud provider.
- D. Vendor support will cease when the hosting platforms reach EOL.

**Correct Answer: B**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 275**

If a current private key is compromised, which of the following would ensure it cannot be used to decrypt all historical data?

- A. Perfect forward secrecy

- B. Elliptic-curve cryptography
- C. Key stretching
- D. Homomorphic encryption

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

Reference: [https://avinetworks.com/glossary/perfect-forwardsecrecy/#:~:text=Perfect%20Forward%20Secrecy%20\(PFS\)%2C,of%20sensitive%20data%20is%20exposed](https://avinetworks.com/glossary/perfect-forwardsecrecy/#:~:text=Perfect%20Forward%20Secrecy%20(PFS)%2C,of%20sensitive%20data%20is%20exposed)

#### QUESTION 276

A company is implementing MFA for all applications that store sensitive data. The IT manager wants MFA to be nondisruptive and user friendly. Which of the following technologies should the IT manager use when implementing MFA?

- A. One-time passwords
- B. Email tokens
- C. Push notifications
- D. Hardware authentication

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 277

While reviewing the wireless router, a systems administrator of a small business determines someone is spoofing the MAC address of an authorized device. Given the table below:

Hostname	IP address	MAC	MAC filter
PC1	192.168.1.20	00:1E:1B:43:21:B2	On
PC2	192.168.1.23	31:1C:3C:13:25:C4	Off
PC3	192.168.1.25	20:A2:22:45:11:D2	On
UNKNOWN	192.168.1.21	12:44:B2:FF:A1:22	Off

Which of the following should be the administrator's NEXT step to detect if there is a rogue system without impacting availability?

- A. Conduct a ping sweep.
- B. Physically check each system.
- C. Deny Internet access to the "UNKNOWN" hostname.
- D. Apply MAC filtering.

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 278

A root cause analysis reveals that a web application outage was caused by one of the company's developers uploading a newer version of the third-party libraries that were shared among several applications. Which of the following implementations would be BEST to prevent the issue from reoccurring?

- A. CASB
- B. SWG
- C. Containerization
- D. Automated failover

**Correct Answer:** C  
**Section:** (none)  
**Explanation**

**Explanation/Reference:**

**QUESTION 279**

Which of the following is the MOST secure but LEAST expensive data destruction method for data that is stored on hard drives?

- A. Pulverizing
- B. Shredding
- C. Incinerating
- D. Degaussing

**Correct Answer:** D  
**Section:** (none)  
**Explanation**

**Explanation/Reference:**

Explanation:  
Reference: <https://www.protondata.com/blog/data-security/what-isdegaussing/#:~:text=The%20National%20Security%20Agency%20has,from%20a%20piece%20of%20technology.&text=While%20degaussing%20is%20the%20only,data%20erasure%20methods%20with%20crushing.>

**QUESTION 280**

When used at design stage, which of the following improves the efficiency, accuracy, and speed of a database?

- A. Tokenization
- B. Data masking
- C. Normalization
- D. Obfuscation

**Correct Answer:** C  
**Section:** (none)  
**Explanation**

**Explanation/Reference:**

Explanation:  
Reference: <https://www.informit.com/articles/article.aspx?p=30646>

**QUESTION 281**

Which of the following provides the BEST protection for sensitive information and data stored in cloud-based services but still allows for full functionality and searchability of data within the cloud-based services?

- A. Data encryption
- B. Data masking
- C. Anonymization
- D. Tokenization

**Correct Answer:** A  
**Section:** (none)  
**Explanation**

**Explanation/Reference:**

Explanation:  
Reference: <https://www.mcafee.com/enterprise/en-us/security-awareness/cloud/tokenization-vs-encryption.html>

**QUESTION 282**

A network engineer needs to build a solution that will allow guests at the company's headquarters to access the Internet via WiFi. This solution should not allow access to the internal corporate network, but it should require guests to sign off on the acceptable use policy before accessing the Internet. Which of the following should the engineer employ to meet these requirements?

- A. Implement open PSK on the APs
- B. Deploy a WAF
- C. Configure WIPS on the APs
- D. Install a captive portal

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 283

A cybersecurity analyst needs to implement secure authentication to third-party websites without users' passwords. Which of the following would be the BEST way to achieve this objective?

- A. OAuth
- B. SSO
- C. SAML
- D. PAP

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 284

Which of the following are requirements that must be configured for PCI DSS compliance? (Choose two.)

- A. Testing security systems and processes regularly
- B. Installing and maintaining a web proxy to protect cardholder data
- C. Assigning a unique ID to each person with computer access
- D. Encrypting transmission of cardholder data across private networks
- E. Benchmarking security awareness training for contractors
- F. Using vendor-supplied default passwords for system passwords

**Correct Answer:** BD

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 285

A company is setting up a web server on the Internet that will utilize both encrypted and unencrypted web-browsing protocols. A security engineer runs a port scan against the server from the Internet and sees the following output:

Port	Protocol	State	Service
22	tcp	open	ssh
25	tcp	filtered	smtp
53	tcp	filtered	domain
80	tcp	open	http
443	tcp	open	https

Which of the following steps would be best for the security engineer to take NEXT?

- A. Allow DNS access from the Internet.

- B. Block SMTP access from the Internet.
- C. Block HTTPS access from the Internet.
- D. Block SSH access from the Internet.

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 286**

An analyst needs to set up a method for securely transferring files between systems. One of the requirements is to authenticate the IP header and the payload. Which of the following services would BEST meet the criteria?

- A. TLS
- B. PFS
- C. ESP
- D. AH

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

Reference: <https://www.sciencedirect.com/topics/computer-science/transport-layer-security>

**QUESTION 287**

A pharmaceutical sales representative logs on to a laptop and connects to the public WiFi to check emails and update reports. Which of the following would be BEST to prevent other devices on the network from directly accessing the laptop?

(Choose two.)

- A. Trusted Platform Module
- B. A host-based firewall
- C. A DLP solution
- D. Full disk encryption
- E. A VPN
- F. Antivirus software

**Correct Answer:** AB

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 288**

An organization that is located in a flood zone is MOST likely to document the concerns associated with the restoration of IT operations in a:

- A. business continuity plan.
- B. communications plan.
- C. disaster recovery plan.
- D. continuity of operations plan.

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 289**

Which of the following is the correct order of volatility from MOST to LEAST volatile?

- A. Memory, temporary filesystems, routing tables, disk, network storage
- B. Cache, memory, temporary filesystems, disk, archival media
- C. Memory, disk, temporary filesystems, cache, archival media
- D. Cache, disk, temporary filesystems, network storage, archival media

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 290**

A systems administrator needs to implement an access control scheme that will allow an object's access policy to be determined by its owner. Which of the following access control schemes BEST fits the requirements?

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

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

VCEUp

**QUESTION 291**

A company wants to deploy PKI on its Internet-facing website. The applications that are currently deployed are: www.company.com (main website) contactus.company.com (for locating a nearby location) quotes.company.com (for requesting a price quote) The company wants to purchase one SSL certificate that will work for all the existing applications and any future applications that follow the same naming conventions, such as store.company.com. Which of the following certificate types would BEST meet the requirements?

- A. SAN
- B. Wildcard
- C. Extended validation
- D. Self-signed

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 292**

Which of the following is a team of people dedicated to testing the effectiveness of organizational security programs by emulating the techniques of potential attackers?

- A. Red team
- B. White team
- C. Blue team
- D. Purple team

**Correct Answer:** A

**Section:** (none)

**Explanation****Explanation/Reference:****QUESTION 293**

An auditor is performing an assessment of a security appliance with an embedded OS that was vulnerable during the last two assessments. Which of the following BEST explains the appliance's vulnerable state?

- A. The system was configured with weak default security settings.
- B. The device uses weak encryption ciphers.
- C. The vendor has not supplied a patch for the appliance.
- D. The appliance requires administrative credentials for the assessment.

**Correct Answer: C**

**Section: (none)**

**Explanation****Explanation/Reference:****QUESTION 294****HOTSPOT**

Select the appropriate attack and remediation from each drop-down list to label the corresponding attack with its remediation.

**INSTRUCTIONS**

Not all attacks and remediation actions will be used.

If at any time you would like to bring back the initial state of the simulation, please click the Reset All button.

**Hot Area:**



Attack Description	Target	Attack Identified	BEST Preventative or Remediation Action
An attacker sends multiple SYN packets from multiple sources.	Web server	<div>▼</div> Botnet RAT Logic Bomb Backdoor Virus Spyware Worm Adware Ransomware Keylogger Phishing	<div>▼</div> Enable DDoS protection Patch vulnerable systems Disable vulnerable services Change the default system password Update the cryptographic algorithms Change the default application password Implement 2FA using push notification Conduct a code review Implement application fuzzing Implement a host-based IPS Disable remote access services
The attack establishes a connection, which allows remote commands to be executed.	User	<div>▼</div> Botnet RAT Logic Bomb Backdoor Virus Spyware Worm Adware Ransomware Keylogger Phishing	<div>▼</div> Enable DDoS protection Patch vulnerable systems Disable vulnerable services Change the default system password Update the cryptographic algorithms Change the default application password Implement 2FA using push notification Conduct a code review Implement application fuzzing Implement a host-based IPS Disable remote access services
The attack is self propagating and compromises a SQL database using well-known credentials as it moves through the network.	Database server	<div>▼</div> Botnet RAT Logic Bomb Backdoor Virus Spyware Worm Adware Ransomware Keylogger Phishing	<div>▼</div> Enable DDoS protection Patch vulnerable systems Disable vulnerable services Change the default system password Update the cryptographic algorithms Change the default application password Implement 2FA using push notification Conduct a code review Implement application fuzzing Implement a host-based IPS Disable remote access services
The attacker uses hardware to remotely monitor a user's input activity to harvest credentials.	Executive	<div>▼</div> Botnet RAT Logic Bomb Backdoor Virus Spyware Worm Adware Ransomware Keylogger Phishing	<div>▼</div> Enable DDoS protection Patch vulnerable systems Disable vulnerable services Change the default system password Update the cryptographic algorithms Change the default application password Implement 2FA using push notification Conduct a code review Implement application fuzzing Implement a host-based IPS Disable remote access services
The attacker embeds hidden access in an internally developed application that bypasses account login.	Application	<div>▼</div> Botnet RAT Logic Bomb Backdoor Virus Spyware Worm Adware Ransomware Keylogger Phishing	<div>▼</div> Enable DDoS protection Patch vulnerable systems Disable vulnerable services Change the default system password Update the cryptographic algorithms Change the default application password Implement 2FA using push notification Conduct a code review Implement application fuzzing Implement a host-based IPS Disable remote access services

Correct Answer:



Attack Description	Target	Attack Identified	BEST Preventative or Remediation Action
An attacker sends multiple SYN packets from multiple sources.	Web server	<div>▼</div> <ul style="list-style-type: none"> <li>Botnet</li> <li>RAT</li> <li>Logic Bomb</li> <li>Backdoor</li> <li>Virus</li> <li>Spyware</li> <li>Worm</li> <li>Adware</li> <li>Ransomware</li> <li>Keylogger</li> <li>Phishing</li> </ul>	<div>▼</div> <ul style="list-style-type: none"> <li>Enable DDoS protection</li> <li>Patch vulnerable systems</li> <li>Disable vulnerable services</li> <li>Change the default system password</li> <li>Update the cryptographic algorithms</li> <li>Change the default application password</li> <li>Implement 2FA using push notification</li> <li>Conduct a code review</li> <li>Implement application fuzzing</li> <li>Implement a host-based IPS</li> <li>Disable remote access services</li> </ul>
The attack establishes a connection, which allows remote commands to be executed.	User	<div>▼</div> <ul style="list-style-type: none"> <li>Botnet</li> <li>RAT</li> <li>Logic Bomb</li> <li>Backdoor</li> <li>Virus</li> <li>Spyware</li> <li>Worm</li> <li>Adware</li> <li>Ransomware</li> <li>Keylogger</li> <li>Phishing</li> </ul>	<div>▼</div> <ul style="list-style-type: none"> <li>Enable DDoS protection</li> <li>Patch vulnerable systems</li> <li>Disable vulnerable services</li> <li>Change the default system password</li> <li>Update the cryptographic algorithms</li> <li>Change the default application password</li> <li>Implement 2FA using push notification</li> <li>Conduct a code review</li> <li>Implement application fuzzing</li> <li>Implement a host-based IPS</li> <li>Disable remote access services</li> </ul>
The attack is self propagating and compromises a SQL database using well-known credentials as it moves through the network.	Database server	<div>▼</div> <ul style="list-style-type: none"> <li>Botnet</li> <li>RAT</li> <li>Logic Bomb</li> <li>Backdoor</li> <li>Virus</li> <li>Spyware</li> <li>Worm</li> <li>Adware</li> <li>Ransomware</li> <li>Keylogger</li> <li>Phishing</li> </ul>	<div>▼</div> <ul style="list-style-type: none"> <li>Enable DDoS protection</li> <li>Patch vulnerable systems</li> <li>Disable vulnerable services</li> <li>Change the default system password</li> <li>Update the cryptographic algorithms</li> <li>Change the default application password</li> <li>Implement 2FA using push notification</li> <li>Conduct a code review</li> <li>Implement application fuzzing</li> <li>Implement a host-based IPS</li> <li>Disable remote access services</li> </ul>
The attacker uses hardware to remotely monitor a user's input activity to harvest credentials.	Executive	<div>▼</div> <ul style="list-style-type: none"> <li>Botnet</li> <li>RAT</li> <li>Logic Bomb</li> <li>Backdoor</li> <li>Virus</li> <li>Spyware</li> <li>Worm</li> <li>Adware</li> <li>Ransomware</li> <li>Keylogger</li> <li>Phishing</li> </ul>	<div>▼</div> <ul style="list-style-type: none"> <li>Enable DDoS protection</li> <li>Patch vulnerable systems</li> <li>Disable vulnerable services</li> <li>Change the default system password</li> <li>Update the cryptographic algorithms</li> <li>Change the default application password</li> <li>Implement 2FA using push notification</li> <li>Conduct a code review</li> <li>Implement application fuzzing</li> <li>Implement a host-based IPS</li> <li>Disable remote access services</li> </ul>
The attacker embeds hidden access in an internally developed application that bypasses account login.	Application	<div>▼</div> <ul style="list-style-type: none"> <li>Botnet</li> <li>RAT</li> <li>Logic Bomb</li> <li>Backdoor</li> <li>Virus</li> <li>Spyware</li> <li>Worm</li> <li>Adware</li> <li>Ransomware</li> <li>Keylogger</li> <li>Phishing</li> </ul>	<div>▼</div> <ul style="list-style-type: none"> <li>Enable DDoS protection</li> <li>Patch vulnerable systems</li> <li>Disable vulnerable services</li> <li>Change the default system password</li> <li>Update the cryptographic algorithms</li> <li>Change the default application password</li> <li>Implement 2FA using push notification</li> <li>Conduct a code review</li> <li>Implement application fuzzing</li> <li>Implement a host-based IPS</li> <li>Disable remote access services</li> </ul>

Section: (none)

**Explanation****Explanation/Reference:****QUESTION 295**  
**HOTSPOT**

The security administrator has installed a new firewall which implements an implicit DENY policy by default.

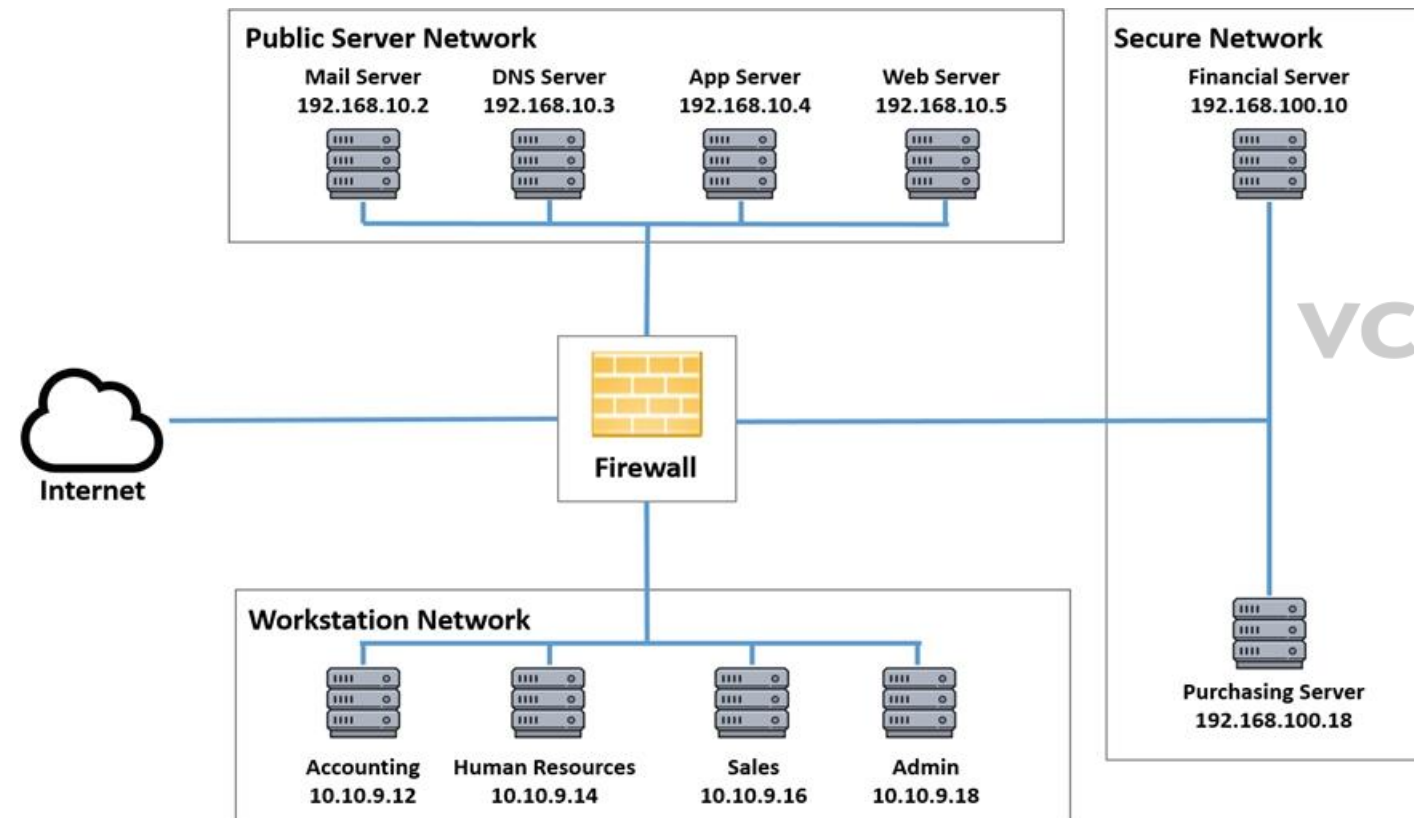
**INSTRUCTIONS**

Click on the firewall and configure it to allow ONLY the following communication:

- The Accounting workstation can ONLY access the web server on the public network over the default HTTPS port. The accounting workstation should not access other networks.
- The HR workstation should be restricted to communicate with the Financial server ONLY, over the default SCP port.
- The Admin workstation should ONLY be able to access the servers on the secure network over the default TFTP port.

The firewall will process rules in a top-down manner in order as a first match. The port number must be typed in and only one port number can be entered per rule. Type ANY for all ports.

If at any time you would like to bring back the initial state of the simulation, please click the Reset All button.



Hot Area:

WiFi Controller

Rule #	Source	Destination	Port (Only One Per Rule)	Protocol	Action
1	<div>▼</div> <div> 192.168.10.2/32  192.168.10.3/32  192.168.10.4/32  192.168.10.5/32  192.168.100.10/32  192.168.100.18/32  10.10.9.12/32  10.10.9.14/32  10.10.9.16/32  10.10.9.18/32 </div>	<div>▼</div> <div> ANY  192.168.10.2/32  192.168.10.3/32  192.168.10.4/32  192.168.10.5/32  192.168.100.10/32  192.168.100.18/32  10.10.9.12/32  10.10.9.14/32  10.10.9.16/32  10.10.9.18/32 </div>	<div>▼</div> <div> 443  22  69 </div>	<div>▼</div> <div> ANY  TCP  UDP </div>	<div>▼</div> <div> Permit  Deny </div>
2	<div>▼</div> <div> 192.168.10.2/32  192.168.10.3/32  192.168.10.4/32  192.168.10.5/32  192.168.100.10/32  192.168.100.18/32  10.10.9.12/32  10.10.9.14/32  10.10.9.16/32  10.10.9.18/32 </div>	<div>▼</div> <div> ANY  192.168.10.2/32  192.168.10.3/32  192.168.10.4/32  192.168.10.5/32  192.168.100.10/32  192.168.100.18/32  10.10.9.12/32  10.10.9.14/32  10.10.9.16/32  10.10.9.18/32 </div>	<div>▼</div> <div> 443  22  69 </div>	<div>▼</div> <div> ANY  TCP  UDP </div>	<div>▼</div> <div> Permit  Deny </div>
3	<div>▼</div> <div> 192.168.10.2/32  192.168.10.3/32  192.168.10.4/32  192.168.10.5/32  192.168.100.10/32  192.168.100.18/32  10.10.9.12/32  10.10.9.14/32  10.10.9.16/32  10.10.9.18/32 </div>	<div>▼</div> <div> ANY  192.168.10.2/32  192.168.10.3/32  192.168.10.4/32  192.168.10.5/32  192.168.100.10/32  192.168.100.18/32  10.10.9.12/32  10.10.9.14/32  10.10.9.16/32  10.10.9.18/32 </div>	<div>▼</div> <div> 443  22  69 </div>	<div>▼</div> <div> ANY  TCP  UDP </div>	<div>▼</div> <div> Permit  Deny </div>
4	<div>▼</div> <div> 192.168.10.2/32  192.168.10.3/32  192.168.10.4/32  192.168.10.5/32  192.168.100.10/32  192.168.100.18/32  10.10.9.12/32  10.10.9.14/32  10.10.9.16/32  10.10.9.18/32 </div>	<div>▼</div> <div> ANY  192.168.10.2/32  192.168.10.3/32  192.168.10.4/32  192.168.10.5/32  192.168.100.10/32  192.168.100.18/32  10.10.9.12/32  10.10.9.14/32  10.10.9.16/32  10.10.9.18/32 </div>	<div>▼</div> <div> 443  22  69 </div>	<div>▼</div> <div> ANY  TCP  UDP </div>	<div>▼</div> <div> Permit  Deny </div>

Correct Answer:



WiFi Controller

Rule #	Source	Destination	Port (Only One Per Rule)	Protocol	Action
1	<div> <div></div> <div> 192.168.10.2/32 192.168.10.3/32 192.168.10.4/32 192.168.10.5/32 192.168.100.10/32 192.168.100.18/32 10.10.9.12/32 10.10.9.14/32 10.10.9.16/32 10.10.9.18/32 </div> </div>	<div> <div></div> <div> ANY 192.168.10.2/32 192.168.10.3/32 192.168.10.4/32 192.168.10.5/32 192.168.100.10/32 192.168.100.18/32 10.10.9.12/32 10.10.9.14/32 10.10.9.16/32 10.10.9.18/32 </div> </div>	<div> <div></div> <div> 443 22 69 </div> </div>	<div> <div></div> <div> ANY TCP UDP </div> </div>	<div> <div></div> <div> Permit Deny </div> </div>
2	<div> <div></div> <div> 192.168.10.2/32 192.168.10.3/32 192.168.10.4/32 192.168.10.5/32 192.168.100.10/32 192.168.100.18/32 10.10.9.12/32 10.10.9.14/32 10.10.9.16/32 10.10.9.18/32 </div> </div>	<div> <div></div> <div> ANY 192.168.10.2/32 192.168.10.3/32 192.168.10.4/32 192.168.10.5/32 192.168.100.10/32 192.168.100.18/32 10.10.9.12/32 10.10.9.14/32 10.10.9.16/32 10.10.9.18/32 </div> </div>	<div> <div></div> <div> 443 22 69 </div> </div>	<div> <div></div> <div> ANY TCP UDP </div> </div>	<div> <div></div> <div> Permit Deny </div> </div>
3	<div> <div></div> <div> 192.168.10.2/32 192.168.10.3/32 192.168.10.4/32 192.168.10.5/32 192.168.100.10/32 192.168.100.18/32 10.10.9.12/32 10.10.9.14/32 10.10.9.16/32 10.10.9.18/32 </div> </div>	<div> <div></div> <div> ANY 192.168.10.2/32 192.168.10.3/32 192.168.10.4/32 192.168.10.5/32 192.168.100.10/32 192.168.100.18/32 10.10.9.12/32 10.10.9.14/32 10.10.9.16/32 10.10.9.18/32 </div> </div>	<div> <div></div> <div> 443 22 69 </div> </div>	<div> <div></div> <div> ANY TCP UDP </div> </div>	<div> <div></div> <div> Permit Deny </div> </div>
4	<div> <div></div> <div> 192.168.10.2/32 192.168.10.3/32 192.168.10.4/32 192.168.10.5/32 192.168.100.10/32 192.168.100.18/32 10.10.9.12/32 10.10.9.14/32 10.10.9.16/32 10.10.9.18/32 </div> </div>	<div> <div></div> <div> ANY 192.168.10.2/32 192.168.10.3/32 192.168.10.4/32 192.168.10.5/32 192.168.100.10/32 192.168.100.18/32 10.10.9.12/32 10.10.9.14/32 10.10.9.16/32 10.10.9.18/32 </div> </div>	<div> <div></div> <div> 443 22 69 </div> </div>	<div> <div></div> <div> ANY TCP UDP </div> </div>	<div> <div></div> <div> Permit Deny </div> </div>

Section: (none)  
Explanation

Explanation/Reference:

QUESTION 296  
DRAG DROP

A security engineer is setting up passwordless authentication for the first time.

## INSTRUCTIONS

Use the minimum set of commands to set this up and verify that it works. Commands cannot be reused.

If at any time you would like to bring back the initial state of the simulation, please click the Reset All button.

## Select and Place:

Commands	SSH Client
<code>chmod 644 ~/.ssh/id_rsa</code>	
<code>chmod 777 ~/.ssh/authorized_keys</code>	
<code>ssh-keygen -t rsa</code>	
<code>scp ~/.ssh/id_rsa user@server:~/.ssh/authorized_keys</code>	
<code>ssh-copy-id -i ~/.ssh/id_rsa.pub user@server</code>	
<code>ssh -i ~/.ssh/id_rsa user@server</code>	
<code>ssh root@server</code>	

## Correct Answer:

Commands	SSH Client
<code>chmod 644 ~/.ssh/id_rsa</code>	<code>ssh-keygen -t rsa</code>
<code>chmod 777 ~/.ssh/authorized_keys</code>	<code>ssh-copy-id -i ~/.ssh/id_rsa.pub user@server</code>
	<code>ssh -i ~/.ssh/id_rsa user@server</code>
<code>scp ~/.ssh/id_rsa user@server:~/.ssh/authorized_keys</code>	
<code>ssh root@server</code>	

Section: (none)

Explanation

Explanation/Reference:

## QUESTION 297

SIMULATION

A company recently added a DR site and is redesigning the network. Users at the DR site are having issues browsing websites.

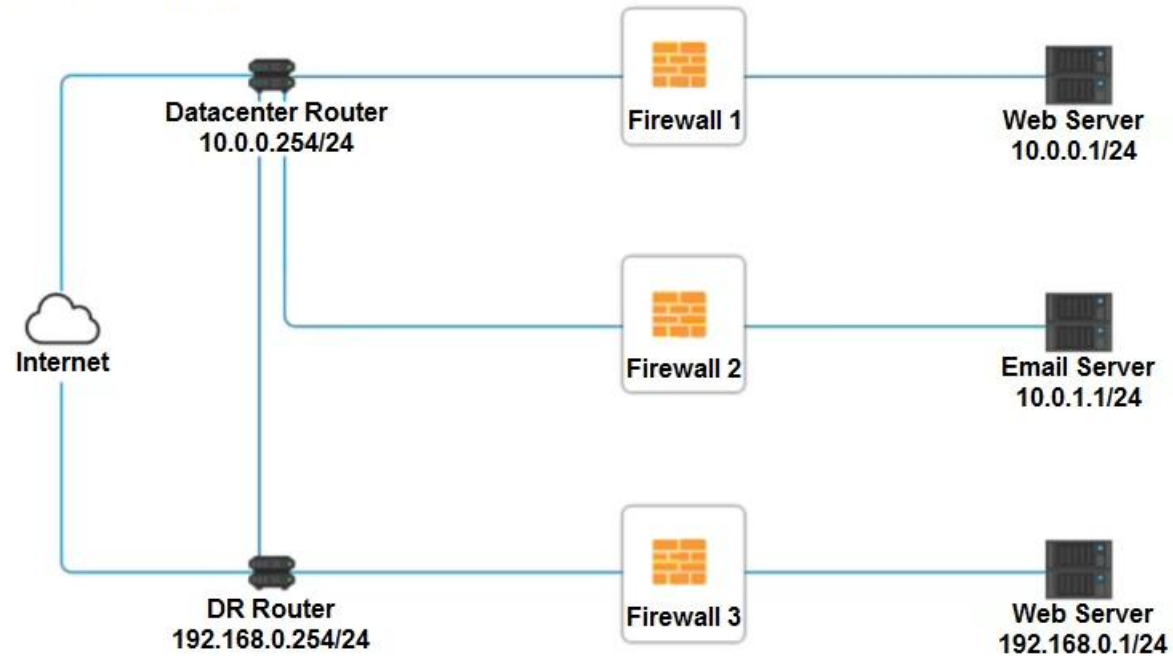
## INSTRUCTIONS

Click on each firewall to do the following:

1. Deny cleartext web traffic.
2. Ensure secure management protocols are used.
3. Resolve issues at the DR site.

The ruleset order cannot be modified due to outside constraints.

If at any time you would like to bring back the initial state of the simulation, please click the Reset All button.

**Network Diagram**

VCEup

Firewall 1

Rule Name	Source	Destination	Service	Action
DNS Rule	<div> <div></div> <div>ANY</div> <div>10.0.0.1/24</div> <div>10.0.1.1/24</div> <div>192.168.0.1/24</div> </div>	<div> <div></div> <div>ANY</div> <div>10.0.0.1/24</div> <div>10.0.1.1/24</div> <div>192.168.0.1/24</div> </div>	<div> <div></div> <div>ANY</div> <div>DNS</div> <div>HTTP</div> <div>HTTPS</div> <div>TELNET</div> <div>SSH</div> </div>	<div> <div></div> <div>PERMIT</div> <div>DENY</div> </div>
HTTPS Outbound	<div> <div></div> <div>ANY</div> <div>10.0.0.1/24</div> <div>10.0.1.1/24</div> <div>192.168.0.1/24</div> </div>	<div> <div></div> <div>ANY</div> <div>10.0.0.1/24</div> <div>10.0.1.1/24</div> <div>192.168.0.1/24</div> </div>	<div> <div></div> <div>ANY</div> <div>DNS</div> <div>HTTP</div> <div>HTTPS</div> <div>TELNET</div> <div>SSH</div> </div>	<div> <div></div> <div>PERMIT</div> <div>DENY</div> </div>
Management	<div> <div></div> <div>ANY</div> <div>10.0.0.1/24</div> <div>10.0.1.1/24</div> <div>192.168.0.1/24</div> </div>	<div> <div></div> <div>ANY</div> <div>10.0.0.1/24</div> <div>10.0.1.1/24</div> <div>192.168.0.1/24</div> </div>	<div> <div></div> <div>ANY</div> <div>DNS</div> <div>HTTP</div> <div>HTTPS</div> <div>TELNET</div> <div>SSH</div> </div>	<div> <div></div> <div>PERMIT</div> <div>DENY</div> </div>
HTTPS Inbound	<div> <div></div> <div>ANY</div> <div>10.0.0.1/24</div> <div>10.0.1.1/24</div> <div>192.168.0.1/24</div> </div>	<div> <div></div> <div>ANY</div> <div>10.0.0.1/24</div> <div>10.0.1.1/24</div> <div>192.168.0.1/24</div> </div>	<div> <div></div> <div>ANY</div> <div>DNS</div> <div>HTTP</div> <div>HTTPS</div> <div>TELNET</div> <div>SSH</div> </div>	<div> <div></div> <div>PERMIT</div> <div>DENY</div> </div>
HTTP Inbound	<div> <div></div> <div>ANY</div> <div>10.0.0.1/24</div> <div>10.0.1.1/24</div> <div>192.168.0.1/24</div> </div>	<div> <div></div> <div>ANY</div> <div>10.0.0.1/24</div> <div>10.0.1.1/24</div> <div>192.168.0.1/24</div> </div>	<div> <div></div> <div>ANY</div> <div>DNS</div> <div>HTTP</div> <div>HTTPS</div> <div>TELNET</div> <div>SSH</div> </div>	<div> <div></div> <div>PERMIT</div> <div>DENY</div> </div>

Reset Answer
Save
Close

**Firewall 2** ✕

Rule Name	Source	Destination	Service	Action
DNS Rule	<div><div></div><div>ANY 10.0.0.1/24 10.0.1.1/24 192.168.0.1/24</div></div>	<div><div></div><div>ANY 10.0.0.1/24 10.0.1.1/24 192.168.0.1/24</div></div>	<div><div></div><div>ANY DNS HTTP HTTPS TELNET SSH</div></div>	<div><div></div><div>PERMIT DENY</div></div>
HTTPS Outbound	<div><div></div><div>ANY 10.0.0.1/24 10.0.1.1/24 192.168.0.1/24</div></div>	<div><div></div><div>ANY 10.0.0.1/24 10.0.1.1/24 192.168.0.1/24</div></div>	<div><div></div><div>ANY DNS HTTP HTTPS TELNET SSH</div></div>	<div><div></div><div>PERMIT DENY</div></div>
Management	<div><div></div><div>ANY 10.0.0.1/24 10.0.1.1/24 192.168.0.1/24</div></div>	<div><div></div><div>ANY 10.0.0.1/24 10.0.1.1/24 192.168.0.1/24</div></div>	<div><div></div><div>ANY DNS HTTP HTTPS TELNET SSH</div></div>	<div><div></div><div>PERMIT DENY</div></div>
HTTPS Inbound	<div><div></div><div>ANY 10.0.0.1/24 10.0.1.1/24 192.168.0.1/24</div></div>	<div><div></div><div>ANY 10.0.0.1/24 10.0.1.1/24 192.168.0.1/24</div></div>	<div><div></div><div>ANY DNS HTTP HTTPS TELNET SSH</div></div>	<div><div></div><div>PERMIT DENY</div></div>
HTTP Inbound	<div><div></div><div>ANY 10.0.0.1/24 10.0.1.1/24 192.168.0.1/24</div></div>	<div><div></div><div>ANY 10.0.0.1/24 10.0.1.1/24 192.168.0.1/24</div></div>	<div><div></div><div>ANY DNS HTTP HTTPS TELNET SSH</div></div>	<div><div></div><div>PERMIT DENY</div></div>

Reset Answer

Save

Close



Firewall 3

Rule Name	Source	Destination	Service	Action
DNS Rule	<div> <div></div> <div>ANY</div> <div>10.0.0.1/24</div> <div>10.0.1.1/24</div> <div>192.168.0.1/24</div> </div>	<div> <div></div> <div>ANY</div> <div>10.0.0.1/24</div> <div>10.0.1.1/24</div> <div>192.168.0.1/24</div> </div>	<div> <div></div> <div>ANY</div> <div>DNS</div> <div>HTTP</div> <div>HTTPS</div> <div>TELNET</div> <div>SSH</div> </div>	<div> <div></div> <div>PERMIT</div> <div>DENY</div> </div>
HTTPS Outbound	<div> <div></div> <div>ANY</div> <div>10.0.0.1/24</div> <div>10.0.1.1/24</div> <div>192.168.0.1/24</div> </div>	<div> <div></div> <div>ANY</div> <div>10.0.0.1/24</div> <div>10.0.1.1/24</div> <div>192.168.0.1/24</div> </div>	<div> <div></div> <div>ANY</div> <div>DNS</div> <div>HTTP</div> <div>HTTPS</div> <div>TELNET</div> <div>SSH</div> </div>	<div> <div></div> <div>PERMIT</div> <div>DENY</div> </div>
Management	<div> <div></div> <div>ANY</div> <div>10.0.0.1/24</div> <div>10.0.1.1/24</div> <div>192.168.0.1/24</div> </div>	<div> <div></div> <div>ANY</div> <div>10.0.0.1/24</div> <div>10.0.1.1/24</div> <div>192.168.0.1/24</div> </div>	<div> <div></div> <div>ANY</div> <div>DNS</div> <div>HTTP</div> <div>HTTPS</div> <div>TELNET</div> <div>SSH</div> </div>	<div> <div></div> <div>PERMIT</div> <div>DENY</div> </div>
HTTPS Inbound	<div> <div></div> <div>ANY</div> <div>10.0.0.1/24</div> <div>10.0.1.1/24</div> <div>192.168.0.1/24</div> </div>	<div> <div></div> <div>ANY</div> <div>10.0.0.1/24</div> <div>10.0.1.1/24</div> <div>192.168.0.1/24</div> </div>	<div> <div></div> <div>ANY</div> <div>DNS</div> <div>HTTP</div> <div>HTTPS</div> <div>TELNET</div> <div>SSH</div> </div>	<div> <div></div> <div>PERMIT</div> <div>DENY</div> </div>
HTTP Inbound	<div> <div></div> <div>ANY</div> <div>10.0.0.1/24</div> <div>10.0.1.1/24</div> <div>192.168.0.1/24</div> </div>	<div> <div></div> <div>ANY</div> <div>10.0.0.1/24</div> <div>10.0.1.1/24</div> <div>192.168.0.1/24</div> </div>	<div> <div></div> <div>ANY</div> <div>DNS</div> <div>HTTP</div> <div>HTTPS</div> <div>TELNET</div> <div>SSH</div> </div>	<div> <div></div> <div>PERMIT</div> <div>DENY</div> </div>

Reset Answer
Save
Close

VCEup

A. See explanation below.

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

**Firewall 1:**

DNS Rule – ANY --> ANY --> DNS --> PERMIT  
 HTTPS Outbound – 10.0.0.1/24 --> ANY --> HTTPS --> PERMIT  
 Management – ANY --> ANY --> SSH --> PERMIT  
 HTTPS Inbound – ANY --> ANY --> HTTPS --> PERMIT  
 HTTP Inbound – ANY --> ANY --> HTTP --> DENY

**Firewall 2:** No changes should be made to this firewall

**Firewall 3:**

DNS Rule – ANY --> ANY --> DNS --> PERMIT  
HTTPS Outbound – 192.168.0.1/24 --> ANY --> HTTPS --> PERMIT  
Management – ANY --> ANY --> SSH --> PERMIT  
HTTPS Inbound – ANY --> ANY --> HTTPS --> PERMIT  
HTTP Inbound – ANY --> ANY --> HTTP --> DENY

**QUESTION 298**  
SIMULATION

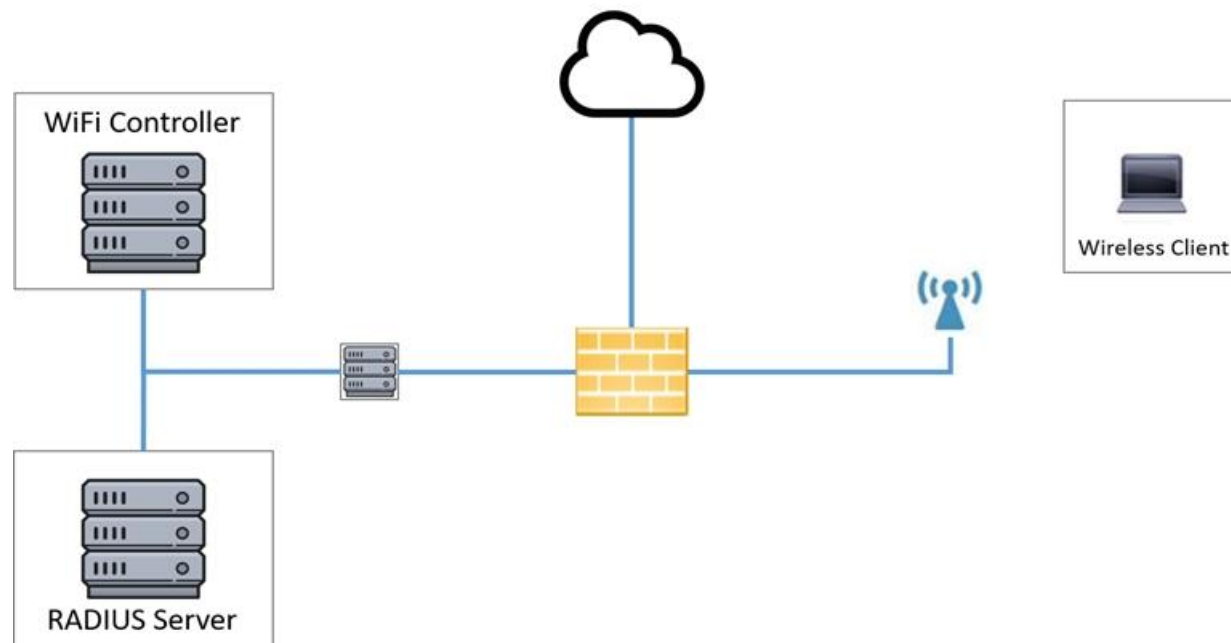
A systems administrator needs to install a new wireless network for authenticated guest access. The wireless network should support 802.1X using the most secure encryption and protocol available.

**INSTRUCTIONS**

Perform the following steps:

1. Configure the RADIUS server.
2. Configure the WiFi controller.
3. Preconfigure the client for an incoming guest. The guest AD credentials are:  
User: guest01  
Password: guestpass

If at any time you would like to bring back the initial state of the simulation, please click the Reset All button.



WiFi Controller

SSID: CORPGUEST

Shared key:

AAA server IP:

PSK:

Authentication type:

Controller IP: 192.168.1.10

Reset Answer Save Close

WiFi Controller

SSID: CORPGUEST

Shared key:

AAA server IP:

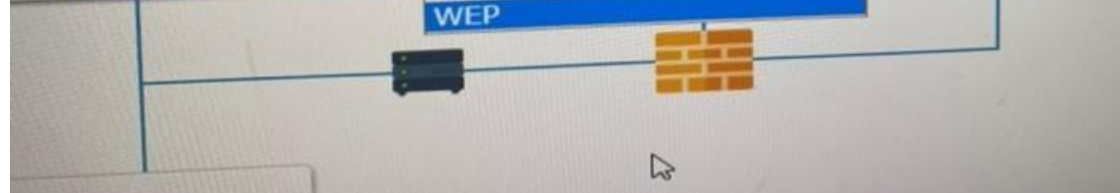
PSK:

Authentication type:

Controller IP:

Reset Answer

OPEN  
WPA-EAP-PEAP-MSCHAPv2  
WPA-PSK  
WPA2-EAP-PEAP-MSCHAPv2  
WPA2-PSK  
WEP



RADIUS Server

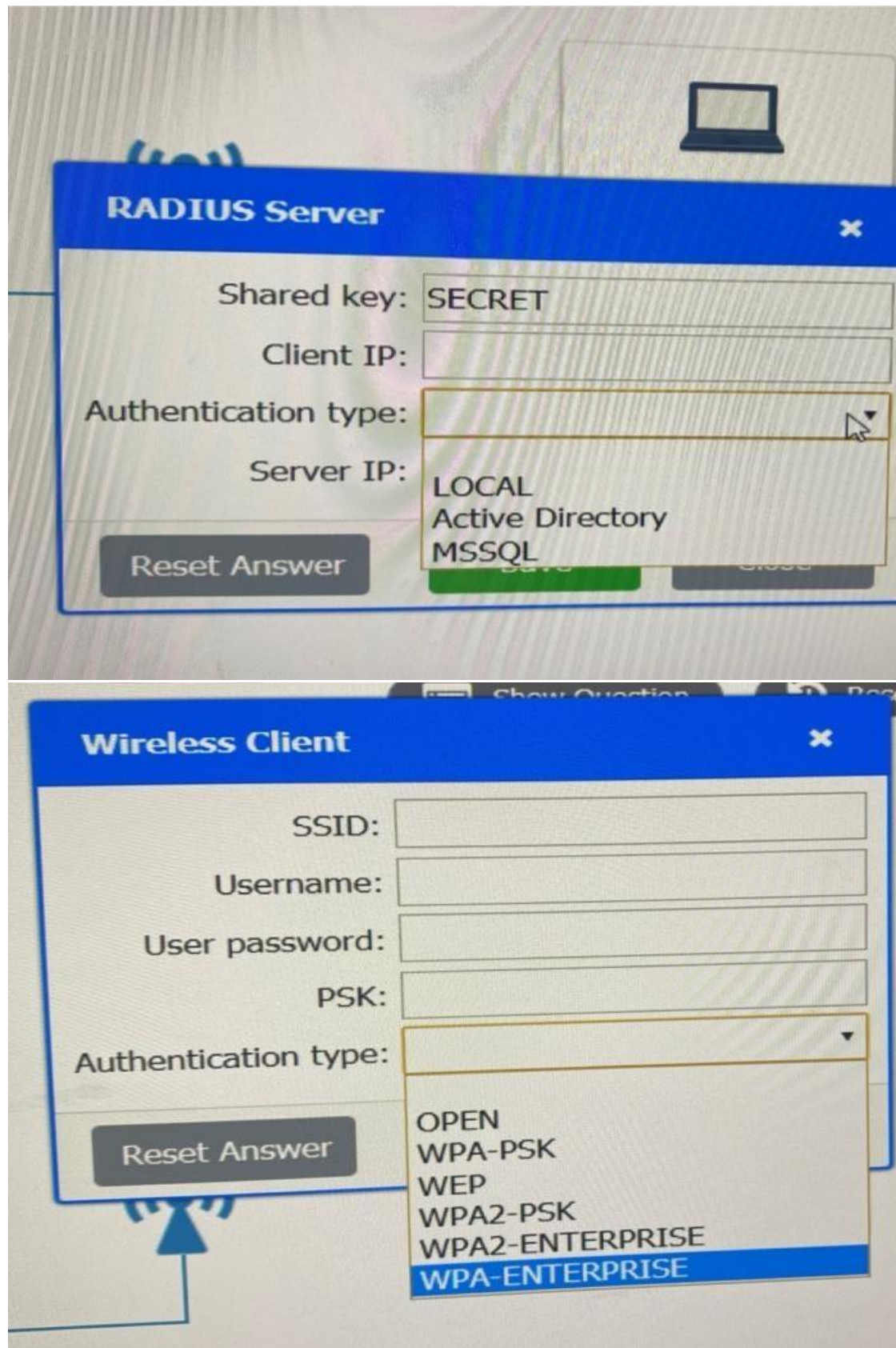
Shared key: SECRET

Client IP:

Authentication type:

Server IP: 192.168.1.20

Reset Answer Save Close



VCEUp

A. See explanation below.

**Correct Answer:** A  
**Section:** (none)



**Explanation****Explanation/Reference:**

Configure the settings as shown below:



**WiFi Controller**

SSID: CORPGUEST

Shared key: SECRET

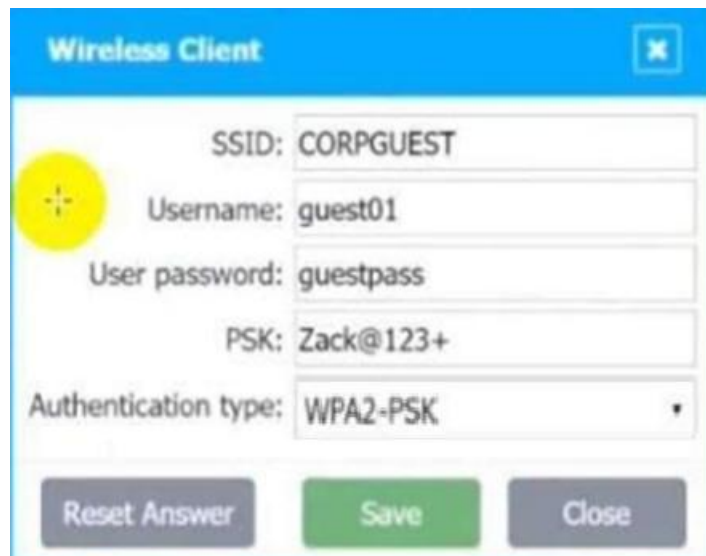
AAA server IP: 192.168.1.20

PSK: Zack@123+

Authentication type: WPA2-PSK

Controller IP: 192.168.1.10

Reset Answer Save Close



**Wireless Client**

SSID: CORPGUEST

Username: guest01

User password: guestpass

PSK: Zack@123+

Authentication type: WPA2-PSK

Reset Answer Save Close



**RADIUS Server**

Shared key: SECRET

Client IP: 192.168.1.10

Authentication type: Active Directory

Server IP: 192.168.1.20

**QUESTION 299****DRAG DROP**

Leveraging the information supplied below, complete the CSR for the server to set up TLS (HTTPS).

Hostname: ws01

Domain: comptia.org

IPv4: 10.1.9.50

IPv4: 10.2.10.50

Root: home.aspx

DNS CNAME: homesite

**INSTRUCTIONS**

Drag the various data points to the correct locations within the CSR. Extension criteria belong in the left-hand column and values belong in the corresponding row in the right-hand column.

If at any time you would like to bring back the initial state of the simulation, please click the Reset All button.

**Select and Place:**

Server

Hostname: ws01  
Domain: comptia.org  
IPv4: 10.1.9.50  
IPv4: 10.2.10.50  
Root: home.aspx  
DNS CNAME: homesite

Extensions

policyIdentifiercommonName  
subAltNameextendedKeyUsage

Values

serverAuth  
OCSP;URI:http://ocsp.pki.comptia.org  
URL=http://homesite.comptia.org/home.aspx  
ws01.comptia.org  
DNS Name=\*.comptia.org  
clientAuth  
DNS Name=homesite.comptia.org

Certificate Signing Request

Extension	Value
?	?
?	?
?	?
?	?

**Correct Answer:**

Hostname: ws01  
 Domain: comptia.org  
 IPv4: 10.1.9.50  
 IPv4: 10.2.10.50  
 Root: home.aspx  
 DNS CHAIN: homesite

Server

### Certificate Signing Request

Extension	Value
commonName	ws01.comptia.org
extendedKeyUsage	OCSP;URL:http://ocsp.pki.comptia.org
policyIdentifier	URL=http://homesite.comptia.org/home.aspx
subjectAltName	DNS Name=homesite.comptia.org

Extensions  
 Values

serverAuth  
 clientAuth  
 DNS Name=\*.comptia.org



Section: (none)

Explanation

Explanation/Reference:

#### QUESTION 300

An organization just experienced a major cyberattack incident. The attack was well coordinated, sophisticated, and highly skilled. Which of the following targeted the organization?

- A. Shadow IT
- B. An insider threat
- C. A hacktivist
- D. An advanced persistent threat

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

#### QUESTION 301

The IT department at a university is concerned about professors placing servers on the university network in an attempt to bypass security controls. Which of the following BEST represents this type of threat?

- A. A script kiddie
- B. Shadow IT
- C. Hacktivism
- D. White-hat

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference: