



CompTIA

Exam Questions SY0-601

CompTIA Security+ Exam

NEW QUESTION 1

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

Answer: A

NEW QUESTION 2

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

- 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.

Answer: C

NEW QUESTION 3

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? (Select TWO).

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

Answer: BE

NEW QUESTION 4

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 honeypot 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.

Answer: A

NEW QUESTION 5

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

Answer: D

NEW QUESTION 6

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 the cause of the cause of the access issues?

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

Answer: B

NEW QUESTION 7

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

Answer:

B

NEW QUESTION 8

Which of the following are the MOST likely vectors for the unauthorized inclusion of vulnerable code in a software company's final software releases? (Select 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

Answer: AD

NEW QUESTION 9

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

Answer: C

NEW QUESTION 10

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

Answer: A

NEW QUESTION 10

Which of the following job roles would sponsor data quality and data entry initiatives that ensure business and regulatory requirements are met?

- A. The data owner
- B. The data processor
- C. The data steward
- D. The data privacy officer.

Answer: C

NEW QUESTION 11

A malicious actor recently penetration 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

Answer: C

NEW QUESTION 14

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

Answer: A

NEW QUESTION 19

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

Answer: D

NEW QUESTION 23

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

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

Answer: C

NEW QUESTION 24

A startup company is using multiple SaaS and IaaS platform 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

Answer: C

NEW QUESTION 26

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.

Answer: A

NEW QUESTION 29

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

Answer: B

NEW QUESTION 33

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 login.
3/16/20 3:31:22 AM Audit Failure: CompanyNetwork\User4 Unknown username or bad password.
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: CompanyNetwork\User4 Successful login.
```

Which of the following attacks MOST likely occurred?

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

Answer: D

NEW QUESTION 34

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.

Answer: D

NEW QUESTION 38

A network technician is installing a guest wireless network at a coffee shop. When a customer purchases an item, the password for the wireless network is printed on the receipt so the customer can log in. Which of the following will the technician MOST likely configure to provide the highest level of security with the least amount of overhead?

- A. WPA-EAP
- B. WEP-TKIP
- C. WPA-PSK
- D. WPS-PIN

Answer: A

NEW QUESTION 41

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

Answer: D

NEW QUESTION 46

A system 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

Answer: B

NEW QUESTION 50

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 on 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? (Select TWO)

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

Answer: BE

NEW QUESTION 53

To reduce costs 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. IaaS
- B. PaaS
- C. SaaS
- D. SaaS

Answer: D

NEW QUESTION 55

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

Answer: C

NEW QUESTION 58

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

Answer: A

NEW QUESTION 61

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

Answer: C

NEW QUESTION 63

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

Answer: C

NEW QUESTION 68

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

Answer: AB

NEW QUESTION 70

Which of the following is a team of people dedicated 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

Answer: A

NEW QUESTION 72

A user is concerned that a web application will not be able to handle unexpected or random input 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

Answer: D

NEW QUESTION 76

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 projected network segment. Which of the following would be MOST effective to implement to further mitigate the reported vulnerability?

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

Answer: D

NEW QUESTION 80

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

Answer: B

NEW QUESTION 82

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

- A. Fog computing
- B. VM escape
- C. Software-defined networking
- D. Image forgery
- E. Container breakout

Answer: B

NEW QUESTION 84

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.

Answer: C

NEW QUESTION 88

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

Answer: EF

NEW QUESTION 89

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

```
[02/Feb/2019:03:39:21 -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/Feb/2019:03:39:25 -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

Answer: B

NEW QUESTION 93

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.

Answer: C

NEW QUESTION 95

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

Answer: B

NEW QUESTION 97

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:cBqYjal6ToV3jEIJHUSKtjjVzignVd4Cz+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

Answer: C

NEW QUESTION 100

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 changes as method of operation
- D. A security control objective cannot be met through a technical change, so the Chief Information Officer (CIO) decides to sign off on the risk.

Answer: B

NEW QUESTION 104

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

Answer: C

NEW QUESTION 107

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.

Answer: D

NEW QUESTION 111

A well-known organization has been experiencing attacks from APIs. The organization is concerned that custom malware is being created and emailed into the company or installed on USB sticks that are dropped in parking lots. Which of the following is the BEST defense against this scenario?

- A. Configuring signature-based antivirus to update every 30 minutes
- B. Enforcing S/MIME for email and automatically encrypting USB drives upon insertion.
- C. Implementing application execution in a sandbox for unknown software.
- D. Fuzzing new files for vulnerabilities if they are not digitally signed

Answer: C

NEW QUESTION 116

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

Answer: C

NEW QUESTION 120

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

Answer: B

NEW QUESTION 122

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

Answer: D

NEW QUESTION 126

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

Answer: C

NEW QUESTION 131

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

Answer: A

NEW QUESTION 134

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

Answer: A

NEW QUESTION 138

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

Answer: D

NEW QUESTION 140

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

Answer: C

NEW QUESTION 144

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

- A. Multifactor authentication
- B. Something you can do
- C. Biometric
- D. Two-factor authentication

Answer: D

NEW QUESTION 148

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

A)

```
http://sample.url.com/<script>Please-Visit-Our-Phishing-Site</script>
```

B)

```
http://sample.url.com/someotherpageonsite/../../../../etc/shadow
```

C)

```
http://sample.url.com/select-from-database-where-password-null
```

D)

```
http://redirect.sample.url.sampleurl.com/malicious-dns-redirect
```

- A. Option A
- B. Option B
- C. Option C
- D. Option D

Answer: B

NEW QUESTION 153

A company needs to centralize its logs to create a baseline and have visibility on its security events. Which of the following technologies will accomplish this objective?

- A. Security information and event management
- B. A web application firewall

- C. A vulnerability scanner
- D. A next-generation firewall

Answer: A

NEW QUESTION 157

Which of the following disaster recovery tests is The LEAST time-consuming for the disaster recovery team?

- A. Tabletop
- B. Parallel
- C. Full interruption
- D. Simulation

Answer: D

NEW QUESTION 160

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

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

Answer: A

NEW QUESTION 164

Which of the following are requirements that must be configured for PCI DSS compliance? (Select 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

Answer: BD

NEW QUESTION 169

The SOC is reviewing process 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. The 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

Answer: A

NEW QUESTION 172

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

Answer: DF

NEW QUESTION 174

Which of the following scenarios would make a 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 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

Answer: A

NEW QUESTION 176

A security analyst needs to produce a document that details how a security incident occurred, the steps that were taken for recovery, and how future incidents can be avoided. During which of the following stages of the response process will this activity take place?

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

Answer: C

NEW QUESTION 179

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

Answer: A

NEW QUESTION 184

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

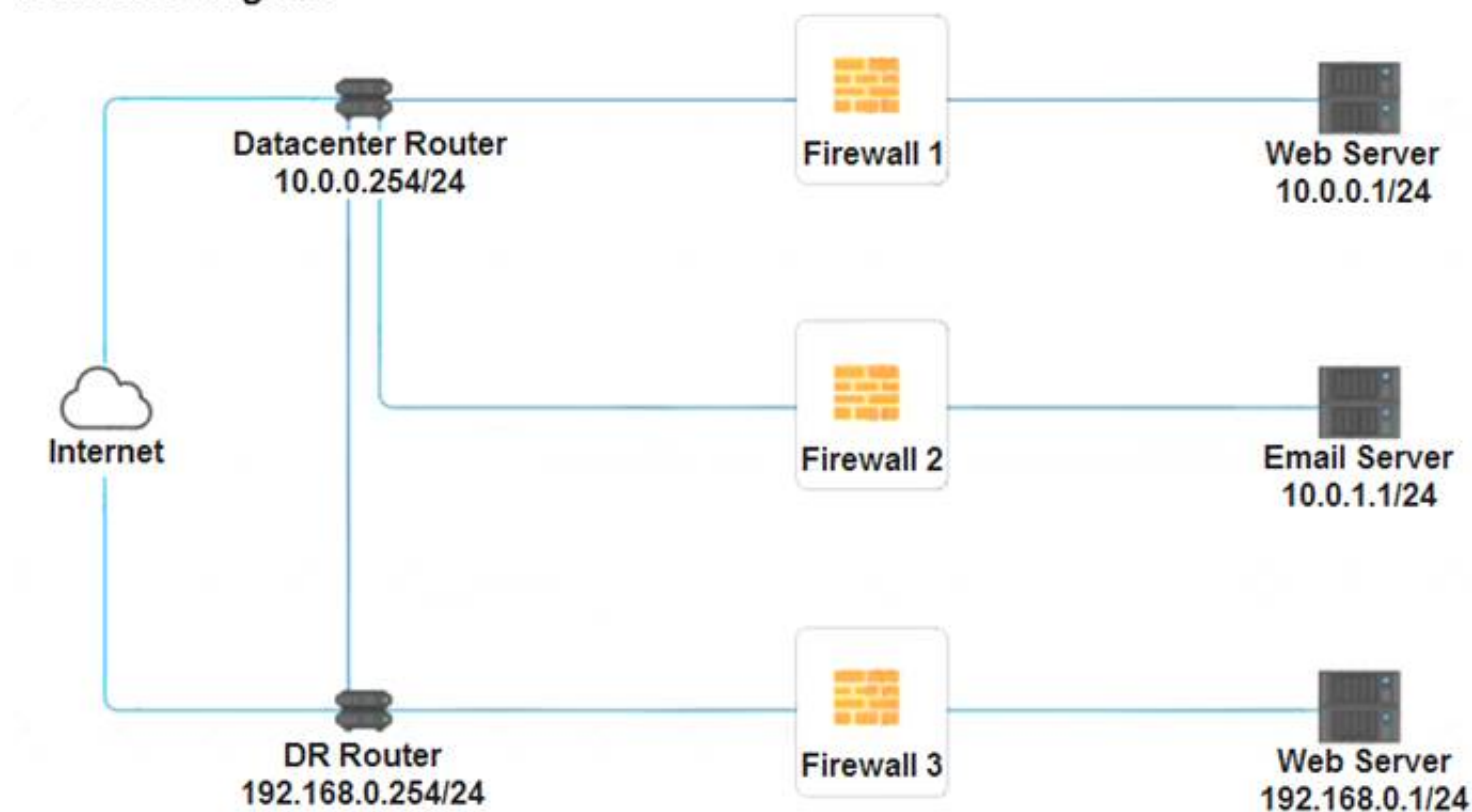
Click on each firewall to do the following:

- > Deny cleartext web traffic.
- > Ensure secure management protocols are used.
- > 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



Firewall 1
✕

Rule Name	Source	Destination	Service	Action
DNS Rule	<div style="border: 1px solid #ccc; padding: 2px;"> <div style="display: flex; justify-content: space-between; align-items: center;"> ▼ </div> <div> ANY 10.0.0.1/24 10.0.1.1/24 192.168.0.1/24 </div> </div>	<div style="border: 1px solid #ccc; padding: 2px;"> <div style="display: flex; justify-content: space-between; align-items: center;"> ▼ </div> <div> ANY 10.0.0.1/24 10.0.1.1/24 192.168.0.1/24 </div> </div>	<div style="border: 1px solid #ccc; padding: 2px;"> <div style="display: flex; justify-content: space-between; align-items: center;"> ▼ </div> <div> ANY DNS HTTP HTTPS TELNET SSH </div> </div>	<div style="border: 1px solid #ccc; padding: 2px;"> <div style="display: flex; justify-content: space-between; align-items: center;"> ▼ </div> <div> PERMIT DENY </div> </div>
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Firewall 2
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Rule Name	Source	Destination	Service	Action
DNS Rule	<div style="border: 1px solid #ccc; padding: 2px; margin-bottom: 5px;">▼</div> <div style="border: 1px solid #ccc; padding: 2px;"> ANY 10.0.0.1/24 10.0.1.1/24 192.168.0.1/24 </div>	<div style="border: 1px solid #ccc; padding: 2px; margin-bottom: 5px;">▼</div> <div style="border: 1px solid #ccc; padding: 2px;"> ANY 10.0.0.1/24 10.0.1.1/24 192.168.0.1/24 </div>	<div style="border: 1px solid #ccc; padding: 2px; margin-bottom: 5px;">▼</div> <div style="border: 1px solid #ccc; padding: 2px;"> ANY DNS HTTP HTTPS TELNET SSH </div>	<div style="border: 1px solid #ccc; padding: 2px; margin-bottom: 5px;">▼</div> <div style="border: 1px solid #ccc; padding: 2px;"> PERMIT DENY </div>
HTTPS Outbound	<div style="border: 1px solid #ccc; padding: 2px; margin-bottom: 5px;">▼</div> <div style="border: 1px solid #ccc; padding: 2px;"> ANY 10.0.0.1/24 10.0.1.1/24 192.168.0.1/24 </div>	<div style="border: 1px solid #ccc; padding: 2px; margin-bottom: 5px;">▼</div> <div style="border: 1px solid #ccc; padding: 2px;"> ANY 10.0.0.1/24 10.0.1.1/24 192.168.0.1/24 </div>	<div style="border: 1px solid #ccc; padding: 2px; margin-bottom: 5px;">▼</div> <div style="border: 1px solid #ccc; padding: 2px;"> ANY DNS HTTP HTTPS TELNET SSH </div>	<div style="border: 1px solid #ccc; padding: 2px; margin-bottom: 5px;">▼</div> <div style="border: 1px solid #ccc; padding: 2px;"> PERMIT DENY </div>
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Firewall 3 ✕

Rule Name	Source	Destination	Service	Action
DNS Rule	<div style="border: 1px solid #ccc; padding: 2px; margin-bottom: 2px;">▼</div> <div style="border: 1px solid #ccc; padding: 2px;"> ANY 10.0.0.1/24 10.0.1.1/24 192.168.0.1/24 </div>	<div style="border: 1px solid #ccc; padding: 2px; margin-bottom: 2px;">▼</div> <div style="border: 1px solid #ccc; padding: 2px;"> ANY 10.0.0.1/24 10.0.1.1/24 192.168.0.1/24 </div>	<div style="border: 1px solid #ccc; padding: 2px; margin-bottom: 2px;">▼</div> <div style="border: 1px solid #ccc; padding: 2px;"> ANY DNS HTTP HTTPS TELNET SSH </div>	<div style="border: 1px solid #ccc; padding: 2px; margin-bottom: 2px;">▼</div> <div style="border: 1px solid #ccc; padding: 2px;"> PERMIT DENY </div>
HTTPS Outbound	<div style="border: 1px solid #ccc; padding: 2px; margin-bottom: 2px;">▼</div> <div style="border: 1px solid #ccc; padding: 2px;"> ANY 10.0.0.1/24 10.0.1.1/24 192.168.0.1/24 </div>	<div style="border: 1px solid #ccc; padding: 2px; margin-bottom: 2px;">▼</div> <div style="border: 1px solid #ccc; padding: 2px;"> ANY 10.0.0.1/24 10.0.1.1/24 192.168.0.1/24 </div>	<div style="border: 1px solid #ccc; padding: 2px; margin-bottom: 2px;">▼</div> <div style="border: 1px solid #ccc; padding: 2px;"> ANY DNS HTTP HTTPS TELNET SSH </div>	<div style="border: 1px solid #ccc; padding: 2px; margin-bottom: 2px;">▼</div> <div style="border: 1px solid #ccc; padding: 2px;"> PERMIT DENY </div>
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HTTP Inbound	<div style="border: 1px solid #ccc; padding: 2px; margin-bottom: 2px;">▼</div> <div style="border: 1px solid #ccc; padding: 2px;"> ANY 10.0.0.1/24 10.0.1.1/24 192.168.0.1/24 </div>	<div style="border: 1px solid #ccc; padding: 2px; margin-bottom: 2px;">▼</div> <div style="border: 1px solid #ccc; padding: 2px;"> ANY 10.0.0.1/24 10.0.1.1/24 192.168.0.1/24 </div>	<div style="border: 1px solid #ccc; padding: 2px; margin-bottom: 2px;">▼</div> <div style="border: 1px solid #ccc; padding: 2px;"> ANY DNS HTTP HTTPS TELNET SSH </div>	<div style="border: 1px solid #ccc; padding: 2px; margin-bottom: 2px;">▼</div> <div style="border: 1px solid #ccc; padding: 2px;"> PERMIT DENY </div>

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A.

Answer: A

Explanation:

See explanation below.

Explanation

Firewall 1:

Firewall 1					
Rule Name	Source	Destination	Service	Action	
DNS Rule	10.0.0.1/24	• ANY	• DNS	• PERMIT	•
HTTPS Outbound	10.0.0.1/24	• ANY	• HTTPS	• PERMIT	•
Management	ANY	• 10.0.0.1/24	• SSH	• PERMIT	•
HTTPS Inbound	ANY	• 10.0.0.1/24	• HTTPS	• PERMIT	•
HTTP Inbound	ANY	• 10.0.0.1/24	• HTTP	• DENY	•
<div>Reset Answer</div> <div>Save</div> <div>Close</div>					

Firewall 1					
Rule Name	Source	Destination	Service	Action	
DNS Rule	10.0.0.1/24	• ANY	• DNS	• PERMIT	•
HTTPS Outbound	10.0.0.1/24	• ANY	• HTTPS	• PERMIT	•
Management	ANY	• 10.0.0.1/24	• SSH	• PERMIT	•
HTTPS Inbound	ANY	• 10.0.0.1/24	• HTTPS	• PERMIT	•
HTTP Inbound	ANY	• 10.0.0.1/24	• HTTP	• DENY	•
<div>Reset Answer</div> <div>Save</div> <div>Close</div>					

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:

Firewall 2					
Rule Name	Source	Destination	Service	Action	
DNS Rule	10.0.1.1/24	• ANY	• DNS	• PERMIT	•
HTTPS Outbound	10.0.1.1/24	• ANY	• HTTPS	• PERMIT	•
Management	ANY	• 10.0.1.1/24	• DNS	• PERMIT	•
HTTPS Inbound	ANY	• 10.0.1.1/24	• HTTPS	• PERMIT	•
HTTP Inbound	ANY	• 10.0.1.1/24	• HTTP	• DENY	•
<div>Reset Answer</div> <div>Save</div> <div>Close</div>					

Firewall 2				
Rule Name	Source	Destination	Service	Action
DNS Rule	10.0.1.1/24	• ANY	• DNS	• PERMIT
HTTPS Outbound	10.0.1.1/24	• ANY	• HTTPS	• PERMIT
Management	ANY	• 10.0.1.1/24	• DNS	• PERMIT
HTTPS Inbound	ANY	• 10.0.1.1/24	• HTTPS	• PERMIT
HTTP Inbound	ANY	• 10.0.1.1/24	• HTTP	• DENY
<div>Reset Answer Save Close</div>				

Firewall 3:

Firewall 3				
Rule Name	Source	Destination	Service	Action
DNS Rule	10.0.0.1/24	• ANY	• DNS	• PERMIT
HTTPS Outbound	192.168.0.1/24	• ANY	• HTTPS	• PERMIT
Management	ANY	• 192.168.0.1/24	• SSH	• PERMIT
HTTPS Inbound	ANY	• 192.168.0.1/24	• HTTPS	• PERMIT
HTTP Inbound	ANY	• 192.168.0.1/24	• HTTP	• DENY
<div>Reset Answer Save Close</div>				

Firewall 3				
Rule Name	Source	Destination	Service	Action
DNS Rule	10.0.0.1/24	• ANY	• DNS	• PERMIT
HTTPS Outbound	192.168.0.1/24	• ANY	• HTTPS	• PERMIT
Management	ANY	• 192.168.0.1/24	• SSH	• PERMIT
HTTPS Inbound	ANY	• 192.168.0.1/24	• HTTPS	• PERMIT
HTTP Inbound	ANY	• 192.168.0.1/24	• HTTP	• DENY
<div>Reset Answer Save Close</div>				

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

NEW QUESTION 186

An analyst visits an internet forum looking for information about a tool. The analyst finds a threat 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. SOU attack

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

Answer: C

NEW QUESTION 190

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

Answer: C

NEW QUESTION 192

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

Answer: C

NEW QUESTION 194

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

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

Answer: DE

NEW QUESTION 198

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 administration use?

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

Answer: C

NEW QUESTION 199

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

Answer: C

NEW QUESTION 202

A financial analyst is expecting an email containing sensitive information from a client. When the email arrives, the analyst receives an error and is unable to open the encrypted message. Which of the following is the MOST likely cause of the issue?

- A. The S/MIME plug-in is not enabled.
- B. The SLL certificate has expired.
- C. Secure IMAP was not implemented
- D. POP3S is not supported.

Answer: A

NEW QUESTION 207

A user recently attended an exposition and received some digital promotional materials The user later noticed blue boxes popping up and disappearing on the

computer, and reported receiving several spam emails, which the user did not open Which of the following is MOST likely the cause of the reported issue?

- A. There was a drive-by download of malware
- B. The user installed a cryptominer
- C. The OS was corrupted
- D. There was malicious code on the USB drive

Answer: D

NEW QUESTION 210

An organization hired a consultant to assist with an active attack, and the consultant was able to identify the compromised accounts and computers. Which of the following is the consultant MOST likely to recommend to prepare for eradication?

- A. Quarantining the compromised accounts and computers, only providing them with network access
- B. Segmenting the compromised accounts and computers into a honeynet so as to not alert the attackers.
- C. Isolating the compromised accounts and computers, cutting off all network and internet access.
- D. Logging off and deleting the compromised accounts and computers to eliminate attacker access.

Answer: B

NEW QUESTION 215

Which of the following would be the BEST resource for a software developer who is looking to improve secure coding practices for web applications?

- A. OWASP
- B. Vulnerability scan results
- C. NIST CSF
- D. Third-party libraries

Answer: A

NEW QUESTION 219

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. Nmapn
- B. Heat maps
- C. Network diagrams
- D. Wireshark

Answer: C

NEW QUESTION 220

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

Answer: D

NEW QUESTION 223

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

Answer: AB

NEW QUESTION 224

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NEW QUESTION 1

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

Answer: A

NEW QUESTION 2

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

- 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.

Answer: C

NEW QUESTION 3

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? (Select TWO).

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

Answer: BE

NEW QUESTION 4

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 honeypot 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.

Answer: A

NEW QUESTION 5

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

Answer: D

NEW QUESTION 6

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 the cause of the cause of the access issues?

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

Answer: B

NEW QUESTION 7

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

Answer:

B

NEW QUESTION 8

Which of the following are the MOST likely vectors for the unauthorized inclusion of vulnerable code in a software company's final software releases? (Select 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

Answer: AD

NEW QUESTION 9

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

Answer: C

NEW QUESTION 10

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

Answer: A

NEW QUESTION 10

Which of the following job roles would sponsor data quality and data entry initiatives that ensure business and regulatory requirements are met?

- A. The data owner
- B. The data processor
- C. The data steward
- D. The data privacy officer.

Answer: C

NEW QUESTION 11

A malicious actor recently penetration 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

Answer: C

NEW QUESTION 14

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

Answer: A

NEW QUESTION 19

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

Answer: D

NEW QUESTION 23

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

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

Answer: C

NEW QUESTION 24

A startup company is using multiple SaaS and IaaS platform 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

Answer: C

NEW QUESTION 26

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.

Answer: A

NEW QUESTION 29

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

Answer: B

NEW QUESTION 33

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 login.
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: CompanyNetwork\User4 Successful login.
```

Which of the following attacks MOST likely occurred?

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

Answer: D

NEW QUESTION 34

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.

Answer: D

NEW QUESTION 38

A network technician is installing a guest wireless network at a coffee shop. When a customer purchases an item, the password for the wireless network is printed on the receipt so the customer can log in. Which of the following will the technician MOST likely configure to provide the highest level of security with the least amount of overhead?

- A. WPA-EAP
- B. WEP-TKIP
- C. WPA-PSK
- D. WPS-PIN

Answer: A

NEW QUESTION 41

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

Answer: D

NEW QUESTION 46

A system 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

Answer: B

NEW QUESTION 50

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 on 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? (Select TWO)

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

Answer: BE

NEW QUESTION 53

To reduce costs 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. IaaS
- B. PaaS
- C. SaaS
- D. SaaS

Answer: D

NEW QUESTION 55

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

Answer: C

NEW QUESTION 58

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

Answer: A

NEW QUESTION 61

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

Answer: C

NEW QUESTION 63

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

Answer: C

NEW QUESTION 68

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

Answer: AB

NEW QUESTION 70

Which of the following is a team of people dedicated 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

Answer: A

NEW QUESTION 72

A user is concerned that a web application will not be able to handle unexpected or random input 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

Answer: D

NEW QUESTION 76

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 projected network segment. Which of the following would be MOST effective to implement to further mitigate the reported vulnerability?

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

Answer: D

NEW QUESTION 80

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

Answer: B

NEW QUESTION 82

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

- A. Fog computing
- B. VM escape
- C. Software-defined networking
- D. Image forgery
- E. Container breakout

Answer: B

NEW QUESTION 84

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.

Answer: C

NEW QUESTION 88

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

Answer: EF

NEW QUESTION 89

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

```
[02/Feb/2019:03:39:21 -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/Feb/2019:03:39:25 -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

Answer: B

NEW QUESTION 93

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.

Answer: C

NEW QUESTION 95

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

Answer: B

NEW QUESTION 97

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:cBqYjal6ToV3jEIJHUSKtjjVzignVd4Cz+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

Answer: C

NEW QUESTION 100

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 changes as method of operation
- D. A security control objective cannot be met through a technical change, so the Chief Information Officer (CIO) decides to sign off on the risk.

Answer: B

NEW QUESTION 104

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

Answer: C

NEW QUESTION 107

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.

Answer: D

NEW QUESTION 111

A well-known organization has been experiencing attacks from APIs. The organization is concerned that custom malware is being created and emailed into the company or installed on USB sticks that are dropped in parking lots. Which of the following is the BEST defense against this scenario?

- A. Configuring signature-based antivirus to update every 30 minutes
- B. Enforcing S/MIME for email and automatically encrypting USB drives upon insertion.
- C. Implementing application execution in a sandbox for unknown software.
- D. Fuzzing new files for vulnerabilities if they are not digitally signed

Answer: C

NEW QUESTION 116

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

Answer: C

NEW QUESTION 120

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

Answer: B

NEW QUESTION 122

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

Answer: D

NEW QUESTION 126

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

Answer: C

NEW QUESTION 131

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

Answer: A

NEW QUESTION 134

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

Answer: A

NEW QUESTION 138

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

Answer: D

NEW QUESTION 140

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

Answer: C

NEW QUESTION 144

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

- A. Multifactor authentication
- B. Something you can do
- C. Biometric
- D. Two-factor authentication

Answer: D

NEW QUESTION 148

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

A)

```
http://sample.url.com/<script>Please-Visit-Our-Phishing-Site</script>
```

B)

```
http://sample.url.com/someotherpageonsite/../../../../etc/shadow
```

C)

```
http://sample.url.com/select-from-database-where-password-null
```

D)

```
http://redirect.sample.url.sampleurl.com/malicious-dns-redirect
```

- A. Option A
- B. Option B
- C. Option C
- D. Option D

Answer: B

NEW QUESTION 153

A company needs to centralize its logs to create a baseline and have visibility on its security events. Which of the following technologies will accomplish this objective?

- A. Security information and event management
- B. A web application firewall

- C. A vulnerability scanner
- D. A next-generation firewall

Answer: A

NEW QUESTION 157

Which of the following disaster recovery tests is The LEAST time-consuming for the disaster recovery team?

- A. Tabletop
- B. Parallel
- C. Full interruption
- D. Simulation

Answer: D

NEW QUESTION 160

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

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

Answer: A

NEW QUESTION 164

Which of the following are requirements that must be configured for PCI DSS compliance? (Select 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

Answer: BD

NEW QUESTION 169

The SOC is reviewing process 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. The 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

Answer: A

NEW QUESTION 172

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

Answer: DF

NEW QUESTION 174

Which of the following scenarios would make a 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 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

Answer: A

NEW QUESTION 176

A security analyst needs to produce a document that details how a security incident occurred, the steps that were taken for recovery, and how future incidents can be avoided. During which of the following stages of the response process will this activity take place?

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

Answer: C

NEW QUESTION 179

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

Answer: A

NEW QUESTION 184

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

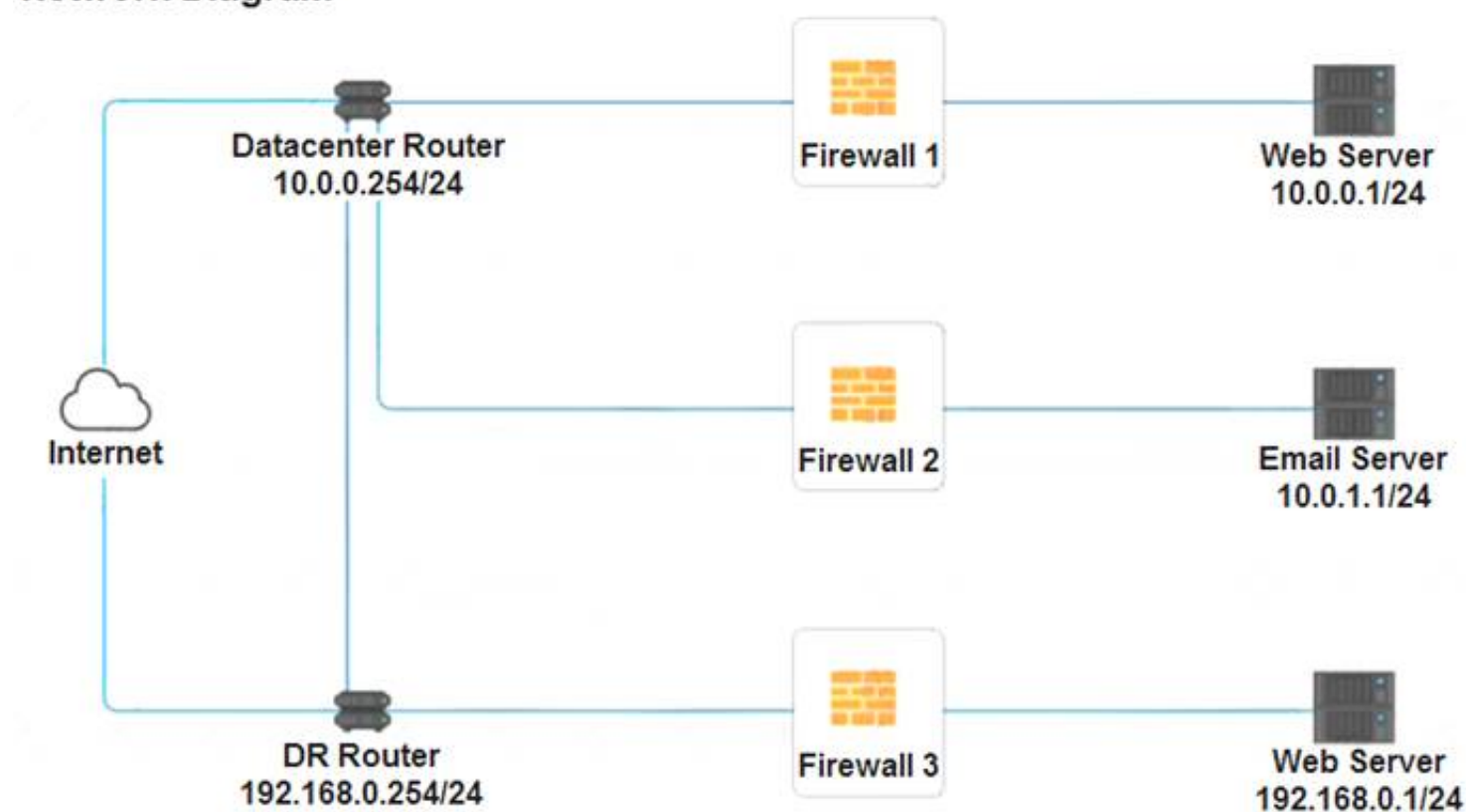
Click on each firewall to do the following:

- > Deny cleartext web traffic.
- > Ensure secure management protocols are used.
- > 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



Firewall 1
✕

Rule Name	Source	Destination	Service	Action
DNS Rule	<div style="border: 1px solid #ccc; padding: 2px;"> <div style="display: flex; justify-content: space-between; align-items: center;"> ▼ </div> <div> ANY 10.0.0.1/24 10.0.1.1/24 192.168.0.1/24 </div> </div>	<div style="border: 1px solid #ccc; padding: 2px;"> <div style="display: flex; justify-content: space-between; align-items: center;"> ▼ </div> <div> ANY 10.0.0.1/24 10.0.1.1/24 192.168.0.1/24 </div> </div>	<div style="border: 1px solid #ccc; padding: 2px;"> <div style="display: flex; justify-content: space-between; align-items: center;"> ▼ </div> <div> ANY DNS HTTP HTTPS TELNET SSH </div> </div>	<div style="border: 1px solid #ccc; padding: 2px;"> <div style="display: flex; justify-content: space-between; align-items: center;"> ▼ </div> <div> PERMIT DENY </div> </div>
HTTPS Outbound	<div style="border: 1px solid #ccc; padding: 2px;"> <div style="display: flex; justify-content: space-between; align-items: center;"> ▼ </div> <div> ANY 10.0.0.1/24 10.0.1.1/24 192.168.0.1/24 </div> </div>	<div style="border: 1px solid #ccc; padding: 2px;"> <div style="display: flex; justify-content: space-between; align-items: center;"> ▼ </div> <div> ANY 10.0.0.1/24 10.0.1.1/24 192.168.0.1/24 </div> </div>	<div style="border: 1px solid #ccc; padding: 2px;"> <div style="display: flex; justify-content: space-between; align-items: center;"> ▼ </div> <div> ANY DNS HTTP HTTPS TELNET SSH </div> </div>	<div style="border: 1px solid #ccc; padding: 2px;"> <div style="display: flex; justify-content: space-between; align-items: center;"> ▼ </div> <div> PERMIT DENY </div> </div>
Management	<div style="border: 1px solid #ccc; padding: 2px;"> <div style="display: flex; justify-content: space-between; align-items: center;"> ▼ </div> <div> ANY 10.0.0.1/24 10.0.1.1/24 192.168.0.1/24 </div> </div>	<div style="border: 1px solid #ccc; padding: 2px;"> <div style="display: flex; justify-content: space-between; align-items: center;"> ▼ </div> <div> ANY 10.0.0.1/24 10.0.1.1/24 192.168.0.1/24 </div> </div>	<div style="border: 1px solid #ccc; padding: 2px;"> <div style="display: flex; justify-content: space-between; align-items: center;"> ▼ </div> <div> ANY DNS HTTP HTTPS TELNET SSH </div> </div>	<div style="border: 1px solid #ccc; padding: 2px;"> <div style="display: flex; justify-content: space-between; align-items: center;"> ▼ </div> <div> PERMIT DENY </div> </div>
HTTPS Inbound	<div style="border: 1px solid #ccc; padding: 2px;"> <div style="display: flex; justify-content: space-between; align-items: center;"> ▼ </div> <div> ANY 10.0.0.1/24 10.0.1.1/24 192.168.0.1/24 </div> </div>	<div style="border: 1px solid #ccc; padding: 2px;"> <div style="display: flex; justify-content: space-between; align-items: center;"> ▼ </div> <div> ANY 10.0.0.1/24 10.0.1.1/24 192.168.0.1/24 </div> </div>	<div style="border: 1px solid #ccc; padding: 2px;"> <div style="display: flex; justify-content: space-between; align-items: center;"> ▼ </div> <div> ANY DNS HTTP HTTPS TELNET SSH </div> </div>	<div style="border: 1px solid #ccc; padding: 2px;"> <div style="display: flex; justify-content: space-between; align-items: center;"> ▼ </div> <div> PERMIT DENY </div> </div>
HTTP Inbound	<div style="border: 1px solid #ccc; padding: 2px;"> <div style="display: flex; justify-content: space-between; align-items: center;"> ▼ </div> <div> ANY 10.0.0.1/24 10.0.1.1/24 192.168.0.1/24 </div> </div>	<div style="border: 1px solid #ccc; padding: 2px;"> <div style="display: flex; justify-content: space-between; align-items: center;"> ▼ </div> <div> ANY 10.0.0.1/24 10.0.1.1/24 192.168.0.1/24 </div> </div>	<div style="border: 1px solid #ccc; padding: 2px;"> <div style="display: flex; justify-content: space-between; align-items: center;"> ▼ </div> <div> ANY DNS HTTP HTTPS TELNET SSH </div> </div>	<div style="border: 1px solid #ccc; padding: 2px;"> <div style="display: flex; justify-content: space-between; align-items: center;"> ▼ </div> <div> PERMIT DENY </div> </div>

Reset Answer
Save
Close

Firewall 2
✕

Rule Name	Source	Destination	Service	Action
DNS Rule	<div style="border: 1px solid #ccc; padding: 2px; margin-bottom: 2px;">▼</div> <div style="border: 1px solid #ccc; padding: 2px;"> ANY 10.0.0.1/24 10.0.1.1/24 192.168.0.1/24 </div>	<div style="border: 1px solid #ccc; padding: 2px; margin-bottom: 2px;">▼</div> <div style="border: 1px solid #ccc; padding: 2px;"> ANY 10.0.0.1/24 10.0.1.1/24 192.168.0.1/24 </div>	<div style="border: 1px solid #ccc; padding: 2px; margin-bottom: 2px;">▼</div> <div style="border: 1px solid #ccc; padding: 2px;"> ANY DNS HTTP HTTPS TELNET SSH </div>	<div style="border: 1px solid #ccc; padding: 2px; margin-bottom: 2px;">▼</div> <div style="border: 1px solid #ccc; padding: 2px;"> PERMIT DENY </div>
HTTPS Outbound	<div style="border: 1px solid #ccc; padding: 2px; margin-bottom: 2px;">▼</div> <div style="border: 1px solid #ccc; padding: 2px;"> ANY 10.0.0.1/24 10.0.1.1/24 192.168.0.1/24 </div>	<div style="border: 1px solid #ccc; padding: 2px; margin-bottom: 2px;">▼</div> <div style="border: 1px solid #ccc; padding: 2px;"> ANY 10.0.0.1/24 10.0.1.1/24 192.168.0.1/24 </div>	<div style="border: 1px solid #ccc; padding: 2px; margin-bottom: 2px;">▼</div> <div style="border: 1px solid #ccc; padding: 2px;"> ANY DNS HTTP HTTPS TELNET SSH </div>	<div style="border: 1px solid #ccc; padding: 2px; margin-bottom: 2px;">▼</div> <div style="border: 1px solid #ccc; padding: 2px;"> PERMIT DENY </div>
Management	<div style="border: 1px solid #ccc; padding: 2px; margin-bottom: 2px;">▼</div> <div style="border: 1px solid #ccc; padding: 2px;"> ANY 10.0.0.1/24 10.0.1.1/24 192.168.0.1/24 </div>	<div style="border: 1px solid #ccc; padding: 2px; margin-bottom: 2px;">▼</div> <div style="border: 1px solid #ccc; padding: 2px;"> ANY 10.0.0.1/24 10.0.1.1/24 192.168.0.1/24 </div>	<div style="border: 1px solid #ccc; padding: 2px; margin-bottom: 2px;">▼</div> <div style="border: 1px solid #ccc; padding: 2px;"> ANY DNS HTTP HTTPS TELNET SSH </div>	<div style="border: 1px solid #ccc; padding: 2px; margin-bottom: 2px;">▼</div> <div style="border: 1px solid #ccc; padding: 2px;"> PERMIT DENY </div>
HTTPS Inbound	<div style="border: 1px solid #ccc; padding: 2px; margin-bottom: 2px;">▼</div> <div style="border: 1px solid #ccc; padding: 2px;"> ANY 10.0.0.1/24 10.0.1.1/24 192.168.0.1/24 </div>	<div style="border: 1px solid #ccc; padding: 2px; margin-bottom: 2px;">▼</div> <div style="border: 1px solid #ccc; padding: 2px;"> ANY 10.0.0.1/24 10.0.1.1/24 192.168.0.1/24 </div>	<div style="border: 1px solid #ccc; padding: 2px; margin-bottom: 2px;">▼</div> <div style="border: 1px solid #ccc; padding: 2px;"> ANY DNS HTTP HTTPS TELNET SSH </div>	<div style="border: 1px solid #ccc; padding: 2px; margin-bottom: 2px;">▼</div> <div style="border: 1px solid #ccc; padding: 2px;"> PERMIT DENY </div>
HTTP Inbound	<div style="border: 1px solid #ccc; padding: 2px; margin-bottom: 2px;">▼</div> <div style="border: 1px solid #ccc; padding: 2px;"> ANY 10.0.0.1/24 10.0.1.1/24 192.168.0.1/24 </div>	<div style="border: 1px solid #ccc; padding: 2px; margin-bottom: 2px;">▼</div> <div style="border: 1px solid #ccc; padding: 2px;"> ANY 10.0.0.1/24 10.0.1.1/24 192.168.0.1/24 </div>	<div style="border: 1px solid #ccc; padding: 2px; margin-bottom: 2px;">▼</div> <div style="border: 1px solid #ccc; padding: 2px;"> ANY DNS HTTP HTTPS TELNET SSH </div>	<div style="border: 1px solid #ccc; padding: 2px; margin-bottom: 2px;">▼</div> <div style="border: 1px solid #ccc; padding: 2px;"> PERMIT DENY </div>

Reset Answer
Save
Close

Firewall 3 ✕

Rule Name	Source	Destination	Service	Action
DNS Rule	<div style="border: 1px solid #ccc; padding: 2px;"> <div style="display: flex; justify-content: space-between; align-items: center;"> ▼ </div> <div> ANY 10.0.0.1/24 10.0.1.1/24 192.168.0.1/24 </div> </div>	<div style="border: 1px solid #ccc; padding: 2px;"> <div style="display: flex; justify-content: space-between; align-items: center;"> ▼ </div> <div> ANY 10.0.0.1/24 10.0.1.1/24 192.168.0.1/24 </div> </div>	<div style="border: 1px solid #ccc; padding: 2px;"> <div style="display: flex; justify-content: space-between; align-items: center;"> ▼ </div> <div> ANY DNS HTTP HTTPS TELNET SSH </div> </div>	<div style="border: 1px solid #ccc; padding: 2px;"> <div style="display: flex; justify-content: space-between; align-items: center;"> ▼ </div> <div> PERMIT DENY </div> </div>
HTTPS Outbound	<div style="border: 1px solid #ccc; padding: 2px;"> <div style="display: flex; justify-content: space-between; align-items: center;"> ▼ </div> <div> ANY 10.0.0.1/24 10.0.1.1/24 192.168.0.1/24 </div> </div>	<div style="border: 1px solid #ccc; padding: 2px;"> <div style="display: flex; justify-content: space-between; align-items: center;"> ▼ </div> <div> ANY 10.0.0.1/24 10.0.1.1/24 192.168.0.1/24 </div> </div>	<div style="border: 1px solid #ccc; padding: 2px;"> <div style="display: flex; justify-content: space-between; align-items: center;"> ▼ </div> <div> ANY DNS HTTP HTTPS TELNET SSH </div> </div>	<div style="border: 1px solid #ccc; padding: 2px;"> <div style="display: flex; justify-content: space-between; align-items: center;"> ▼ </div> <div> PERMIT DENY </div> </div>
Management	<div style="border: 1px solid #ccc; padding: 2px;"> <div style="display: flex; justify-content: space-between; align-items: center;"> ▼ </div> <div> ANY 10.0.0.1/24 10.0.1.1/24 192.168.0.1/24 </div> </div>	<div style="border: 1px solid #ccc; padding: 2px;"> <div style="display: flex; justify-content: space-between; align-items: center;"> ▼ </div> <div> ANY 10.0.0.1/24 10.0.1.1/24 192.168.0.1/24 </div> </div>	<div style="border: 1px solid #ccc; padding: 2px;"> <div style="display: flex; justify-content: space-between; align-items: center;"> ▼ </div> <div> ANY DNS HTTP HTTPS TELNET SSH </div> </div>	<div style="border: 1px solid #ccc; padding: 2px;"> <div style="display: flex; justify-content: space-between; align-items: center;"> ▼ </div> <div> PERMIT DENY </div> </div>
HTTPS Inbound	<div style="border: 1px solid #ccc; padding: 2px;"> <div style="display: flex; justify-content: space-between; align-items: center;"> ▼ </div> <div> ANY 10.0.0.1/24 10.0.1.1/24 192.168.0.1/24 </div> </div>	<div style="border: 1px solid #ccc; padding: 2px;"> <div style="display: flex; justify-content: space-between; align-items: center;"> ▼ </div> <div> ANY 10.0.0.1/24 10.0.1.1/24 192.168.0.1/24 </div> </div>	<div style="border: 1px solid #ccc; padding: 2px;"> <div style="display: flex; justify-content: space-between; align-items: center;"> ▼ </div> <div> ANY DNS HTTP HTTPS TELNET SSH </div> </div>	<div style="border: 1px solid #ccc; padding: 2px;"> <div style="display: flex; justify-content: space-between; align-items: center;"> ▼ </div> <div> PERMIT DENY </div> </div>
HTTP Inbound	<div style="border: 1px solid #ccc; padding: 2px;"> <div style="display: flex; justify-content: space-between; align-items: center;"> ▼ </div> <div> ANY 10.0.0.1/24 10.0.1.1/24 192.168.0.1/24 </div> </div>	<div style="border: 1px solid #ccc; padding: 2px;"> <div style="display: flex; justify-content: space-between; align-items: center;"> ▼ </div> <div> ANY 10.0.0.1/24 10.0.1.1/24 192.168.0.1/24 </div> </div>	<div style="border: 1px solid #ccc; padding: 2px;"> <div style="display: flex; justify-content: space-between; align-items: center;"> ▼ </div> <div> ANY DNS HTTP HTTPS TELNET SSH </div> </div>	<div style="border: 1px solid #ccc; padding: 2px;"> <div style="display: flex; justify-content: space-between; align-items: center;"> ▼ </div> <div> PERMIT DENY </div> </div>

Reset Answer
Save
Close

A.

Answer: A

Explanation:

See explanation below.

Explanation

Firewall 1:

Firewall 1					
Rule Name	Source	Destination	Service	Action	
DNS Rule	10.0.0.1/24	• ANY	• DNS	• PERMIT	•
HTTPS Outbound	10.0.0.1/24	• ANY	• HTTPS	• PERMIT	•
Management	ANY	• 10.0.0.1/24	• SSH	• PERMIT	•
HTTPS Inbound	ANY	• 10.0.0.1/24	• HTTPS	• PERMIT	•
HTTP Inbound	ANY	• 10.0.0.1/24	• HTTP	• DENY	•
<div>Reset Answer</div> <div>Save</div> <div>Close</div>					

Firewall 1					
Rule Name	Source	Destination	Service	Action	
DNS Rule	10.0.0.1/24	• ANY	• DNS	• PERMIT	•
HTTPS Outbound	10.0.0.1/24	• ANY	• HTTPS	• PERMIT	•
Management	ANY	• 10.0.0.1/24	• SSH	• PERMIT	•
HTTPS Inbound	ANY	• 10.0.0.1/24	• HTTPS	• PERMIT	•
HTTP Inbound	ANY	• 10.0.0.1/24	• HTTP	• DENY	•
<div>Reset Answer</div> <div>Save</div> <div>Close</div>					

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:

Firewall 2					
Rule Name	Source	Destination	Service	Action	
DNS Rule	10.0.1.1/24	• ANY	• DNS	• PERMIT	•
HTTPS Outbound	10.0.1.1/24	• ANY	• HTTPS	• PERMIT	•
Management	ANY	• 10.0.1.1/24	• DNS	• PERMIT	•
HTTPS Inbound	ANY	• 10.0.1.1/24	• HTTPS	• PERMIT	•
HTTP Inbound	ANY	• 10.0.1.1/24	• HTTP	• DENY	•
<div>Reset Answer</div> <div>Save</div> <div>Close</div>					

Firewall 2				
Rule Name	Source	Destination	Service	Action
DNS Rule	10.0.1.1/24	• ANY	• DNS	• PERMIT
HTTPS Outbound	10.0.1.1/24	• ANY	• HTTPS	• PERMIT
Management	ANY	• 10.0.1.1/24	• DNS	• PERMIT
HTTPS Inbound	ANY	• 10.0.1.1/24	• HTTPS	• PERMIT
HTTP Inbound	ANY	• 10.0.1.1/24	• HTTP	• DENY

Firewall 3:

Firewall 3				
Rule Name	Source	Destination	Service	Action
DNS Rule	10.0.0.1/24	• ANY	• DNS	• PERMIT
HTTPS Outbound	192.168.0.1/24	• ANY	• HTTPS	• PERMIT
Management	ANY	• 192.168.0.1/24	• SSH	• PERMIT
HTTPS Inbound	ANY	• 192.168.0.1/24	• HTTPS	• PERMIT
HTTP Inbound	ANY	• 192.168.0.1/24	• HTTP	• DENY

Firewall 3				
Rule Name	Source	Destination	Service	Action
DNS Rule	10.0.0.1/24	• ANY	• DNS	• PERMIT
HTTPS Outbound	192.168.0.1/24	• ANY	• HTTPS	• PERMIT
Management	ANY	• 192.168.0.1/24	• SSH	• PERMIT
HTTPS Inbound	ANY	• 192.168.0.1/24	• HTTPS	• PERMIT
HTTP Inbound	ANY	• 192.168.0.1/24	• HTTP	• DENY

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

NEW QUESTION 186

An analyst visits an internet forum looking for information about a tool. The analyst finds a threat 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. SOU attack

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

Answer: C

NEW QUESTION 190

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

Answer: C

NEW QUESTION 192

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

Answer: C

NEW QUESTION 194

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

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

Answer: DE

NEW QUESTION 198

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 administration use?

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

Answer: C

NEW QUESTION 199

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

Answer: C

NEW QUESTION 202

A financial analyst is expecting an email containing sensitive information from a client. When the email arrives, the analyst receives an error and is unable to open the encrypted message. Which of the following is the MOST likely cause of the issue?

- A. The S/MIME plug-in is not enabled.
- B. The SLL certificate has expired.
- C. Secure IMAP was not implemented
- D. POP3S is not supported.

Answer: A

NEW QUESTION 207

A user recently attended an exposition and received some digital promotional materials The user later noticed blue boxes popping up and disappearing on the

computer, and reported receiving several spam emails, which the user did not open Which of the following is MOST likely the cause of the reported issue?

- A. There was a drive-by download of malware
- B. The user installed a cryptominer
- C. The OS was corrupted
- D. There was malicious code on the USB drive

Answer: D

NEW QUESTION 210

An organization hired a consultant to assist with an active attack, and the consultant was able to identify the compromised accounts and computers. Which of the following is the consultant MOST likely to recommend to prepare for eradication?

- A. Quarantining the compromised accounts and computers, only providing them with network access
- B. Segmenting the compromised accounts and computers into a honeynet so as to not alert the attackers.
- C. Isolating the compromised accounts and computers, cutting off all network and internet access.
- D. Logging off and deleting the compromised accounts and computers to eliminate attacker access.

Answer: B

NEW QUESTION 215

Which of the following would be the BEST resource for a software developer who is looking to improve secure coding practices for web applications?

- A. OWASP
- B. Vulnerability scan results
- C. NIST CSF
- D. Third-party libraries

Answer: A

NEW QUESTION 219

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. Nmapn
- B. Heat maps
- C. Network diagrams
- D. Wireshark

Answer: C

NEW QUESTION 220

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

Answer: D

NEW QUESTION 223

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

Answer: AB

NEW QUESTION 224

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