CompTIA

Exam Questions SY0-601

CompTIA Security+ Exam

NEW QUESTION 1
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

Answer: A

NEW QUESTION 2
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, andthen apply them to the production systems
C. Test the patches m 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 3
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 meets this requirements?

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

Answer: C

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 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.

Answer: A

NEW QUESTION 5
A security assessment determines DES and 3DES at still being used on recently deployed production servers. Which of the following did the assessment identify?

A. Unsecme 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 rale
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
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

Answer: A

NEW QUESTION 9
An enterprise has hired an outside security firm to conduct penetration testing on its network and applications. The firm has only been given the documentation available to the customers of the applications. Which of the following BEST represents the type of testing that will occur?

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

Answer: A

NEW QUESTION 10
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 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 15
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

Answer: C

NEW QUESTION 18

Which of the following relets 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

Answer: A

NEW QUESTION 19
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 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.

Answer: A

NEW QUESTION 20
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.

Answer: A

NEW QUESTION 23
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 the task? (Select TWO).

A. head
B. Tcpdump
C. grep
D. rail
E. curl
F. openssi
G. dd

Answer: AB

NEW QUESTION 25
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 29
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 34
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

Answer: B

NEW QUESTION 36
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 40
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: CompanyNetwork\User4 Successful logon.
```

Which of the following attacks MOST likely occurred?

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

Answer: D

NEW QUESTION 42
Joe, a user at a company, clicked an email link 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 continues to evade detection. Which of the following should 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.

Answer: C

NEW QUESTION 43
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 m 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 47
A security analyst needs to implement an MDM solution for BYOD users that will allow the company to retain control over company emails residing on the devices and limit data exfiltration that might occur if the devices are lost or stolen. Which of the following would BEST meet these requirements? (Select TWO).

A. Full-device encryption
B. Network usage rules
C. Geofencing

D. Containerization
E. Application whitelisting
F. Remote control

Answer: AB

NEW QUESTION 52
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 transfer 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

Answer: D

NEW QUESTION 53
Which of the following organizational policies are MOST likely to detect fraud that is being conducted by existing employees? (Select TWO).

A. Offboarding
B. Mandatory vacation
C. Job rotation
D. Background checks
E. Separation of duties
F. Acceptable use

Answer: BC

NEW QUESTION 57
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

Answer: A

NEW QUESTION 58
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

Answer: D

NEW QUESTION 62
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. While team
C. Blue team
D. Purple team

Answer: A

NEW QUESTION 66
A company uses wireless tor 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

Answer: B

NEW QUESTION 67
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 data? (Select TWO)

A. VPN
B. Drive encryption
C. Network firewall
D. File-level encryption
E. USB blocker
F. MFA

Answer: BE

NEW QUESTION 69
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 73
A security engineer needs to Implement the following requirements:
• All Layer 2 switches should leverage Active Directory tor 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? (Select 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.

Answer: AB

NEW QUESTION 76
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 80

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

Answer: B

NEW QUESTION 84
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

Answer: C

NEW QUESTION 85
Which of the following algorithms has the SMALLEST key size?

A. DES
B. Twofish
C. RSA
D. AES

Answer: B

NEW QUESTION 87
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

Answer: AD

NEW QUESTION 91
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 94
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 option 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 mode?

A. Hacktivists
B. White-hat hackers

C. Script kiddies
D. Insider threats

Answer: A

NEW QUESTION 96
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

Answer: C

NEW QUESTION 101
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 103
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 107
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

Answer: B

NEW QUESTION 110
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 111
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

Answer: D

NEW QUESTION 114
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

Answer: D

NEW QUESTION 119
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

Answer: C

NEW QUESTION 124
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

Answer: D

NEW QUESTION 128
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.

Answer: C

NEW QUESTION 132
Employees are having issues accessing the company's website. Some employees report very slow performance, while others cannot the website at all. The web and security administrators search the logs and find millions of half-open connections to port 443 on the web server. Further analysis reveals thousands of different source IPs initiating this traffic. Which of the following attacks is MOST likely occurring?

A. DDoS
B. Man-in-the-middle
C. MAC flooding
D. Domain hijacking

Answer: A

NEW QUESTION 133
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 134
A network engineer notices the VPN concentrator overloaded and crashes on days when there are a lot of remote workers. Senior management has placed greater importance on the availability of VPN resources for the remote workers than the security of the end users' traffic. Which of the following would be BEST to solve this issue?

A. iPSec
B. Always On
C. Split tunneling
D. L2TP

Answer: B

NEW QUESTION 136
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

Answer: C

NEW QUESTION 138
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

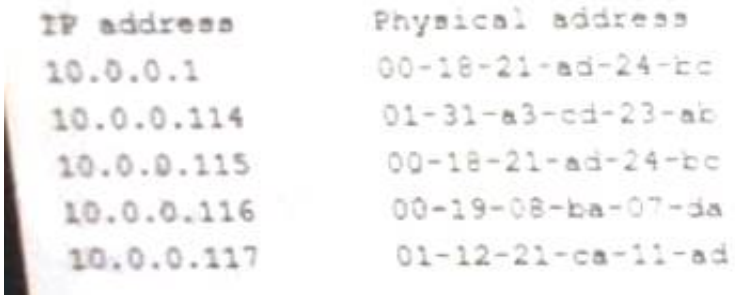
Answer: B

NEW QUESTION 143
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 144
A security analyst is investigation 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

Answer: E

NEW QUESTION 147
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 149
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 154
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 158
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 161
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.

Answer: D

NEW QUESTION 162
Which of the following allows for functional test data to be used in new systems for testing and training purposes to protect the read data?

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

Answer: B

NEW QUESTION 165
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

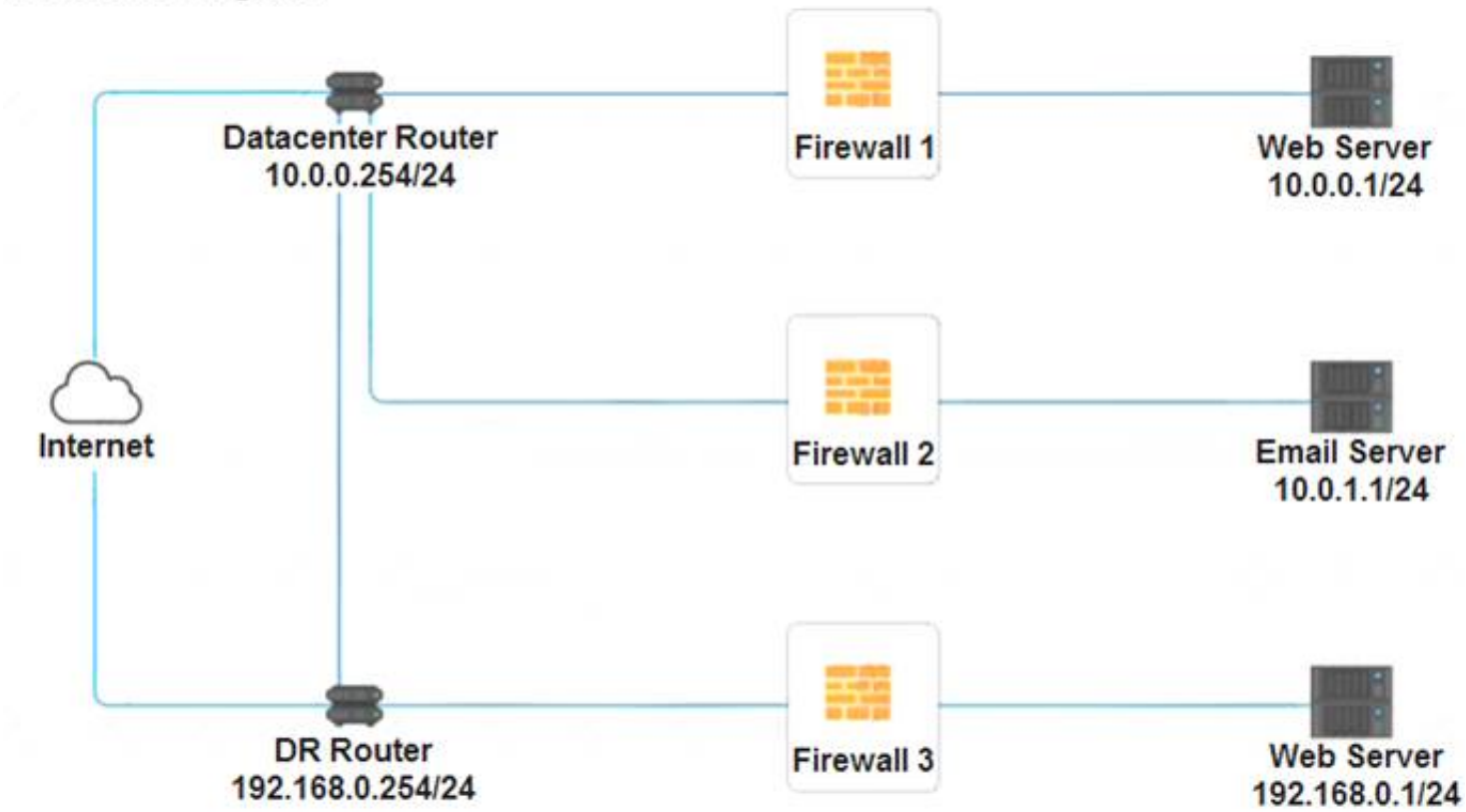
Answer: C

NEW QUESTION 168
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

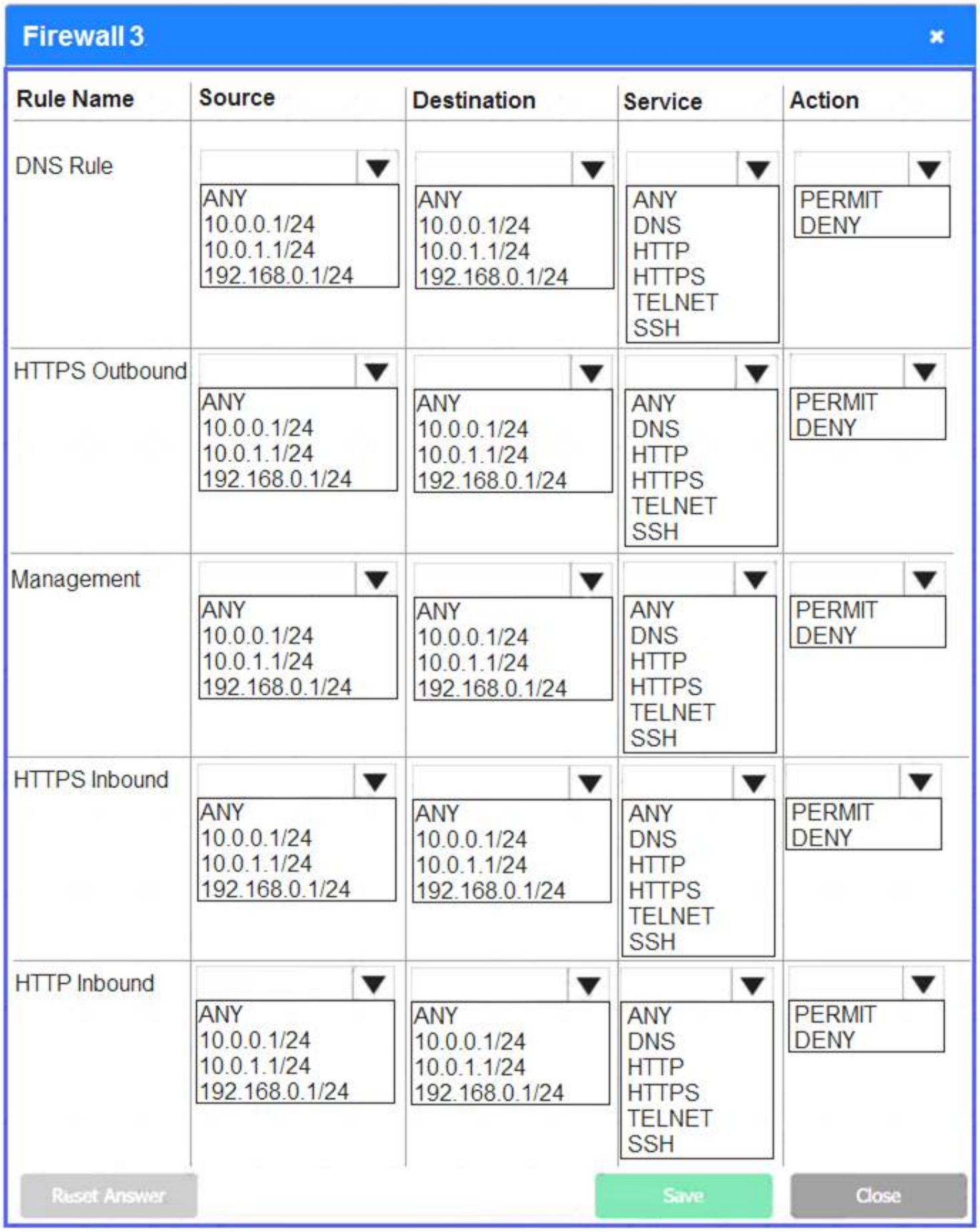
Rule Name	Source	Destination	Service	Action
DNS Rule	ANY 10.0.0.1/24 10.0.1.1/24 192.168.0.1/24	ANY 10.0.0.1/24 10.0.1.1/24 192.168.0.1/24	ANY DNS HTTP HTTPS TELNET SSH	PERMIT DENY
HTTPS Outbound	ANY 10.0.0.1/24 10.0.1.1/24 192.168.0.1/24	ANY 10.0.0.1/24 10.0.1.1/24 192.168.0.1/24	ANY DNS HTTP HTTPS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

Reset Answer | Save | Close

Firewall 2

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

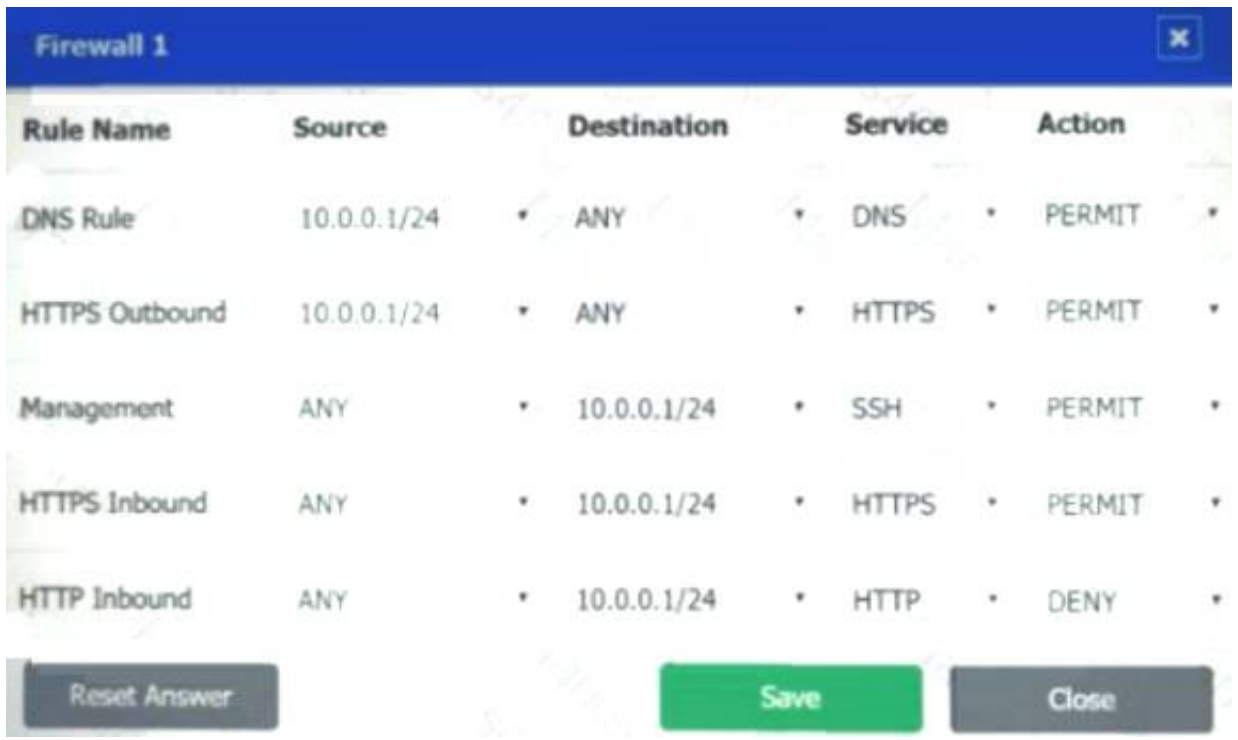
Reset Answer | Save | Close



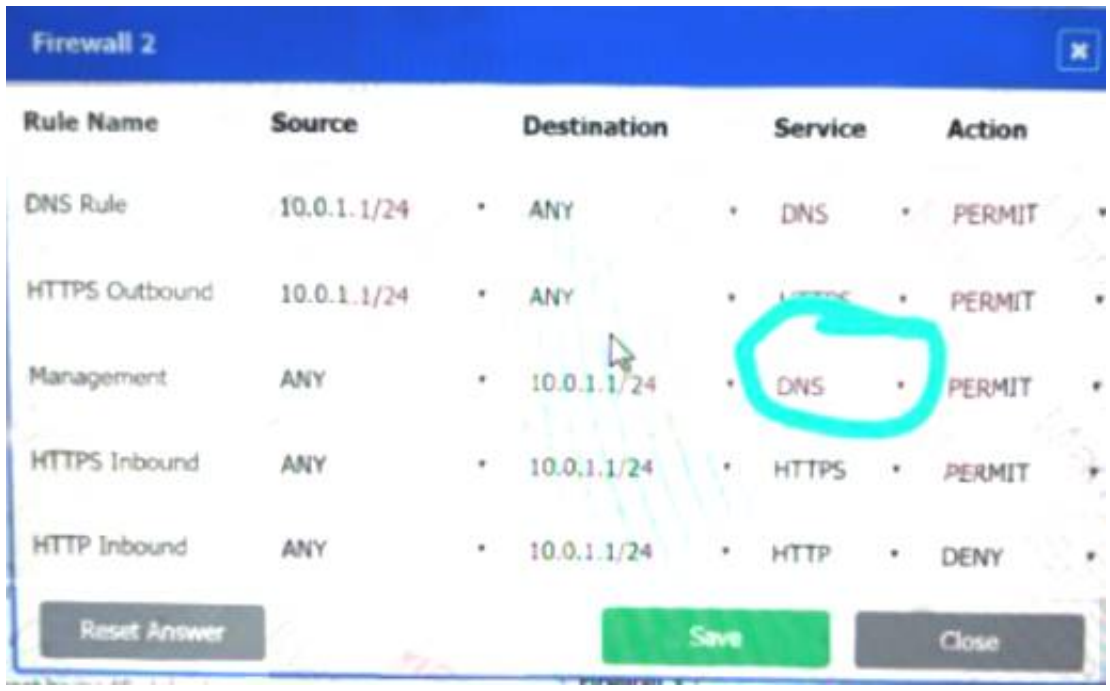
A.

Answer: A

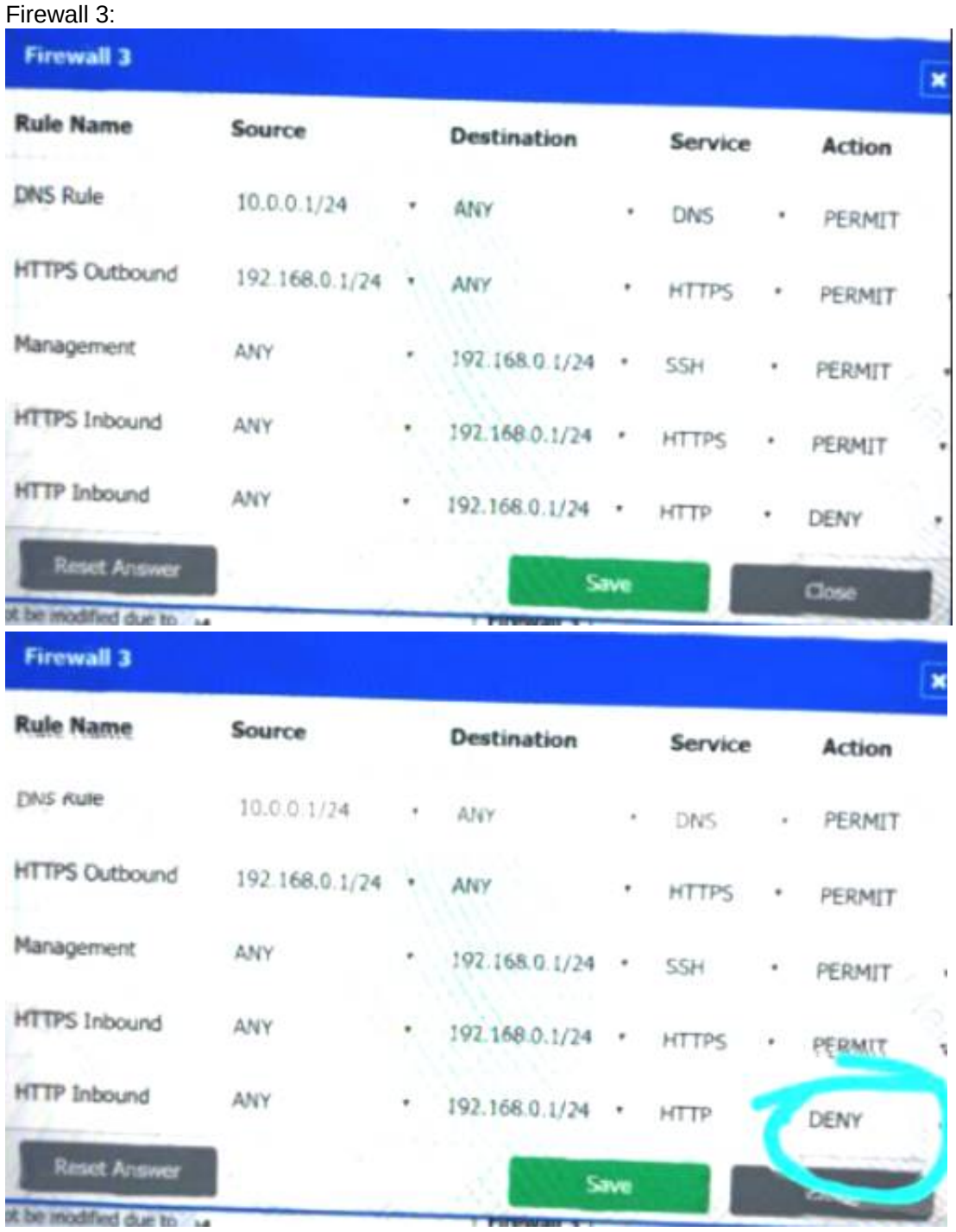
Explanation:
See explanation below.
Explanation
Firewall 1:



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:



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

NEW QUESTION 169
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.

Answer: B

NEW QUESTION 172
The Chief Executive Officer (CEO) of an organization would like staff members to have the flexibility to work from home anytime during business hours, incident during a pandemic or crisis, However, the CEO is concerned that some staff members may take advantage of the of the flexibility and work from high-risk countries while on holidays work to a third-party organization in another country. The Chief information Officer (CIO) believes the company can implement some basic to mitigate the majority of the risk. Which of the following would be BEST to mitigate CEO's concern? (Select TWO).

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

Answer: AE

NEW QUESTION 173
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

Answer: A

NEW QUESTION 177
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

Answer: A

NEW QUESTION 178
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

Answer: A

NEW QUESTION 182
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. Ofboarding

Answer: D

NEW QUESTION 187
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. Oder of volatility
D. A log analysis
E. A right-to-audit clause

Answer: D

NEW QUESTION 190
An incident response technician collected a mobile device during an investigation. Which of the following should the technician do to maintain chain of custody?

A. Document the collection and require a sign-off when possession changes.
B. Lock the device in a safe or other secure location to prevent theft or alteration.
C. Place the device in a Faraday cage to prevent corruption of the data.
D. Record the collection in a blockchain-protected public ledger.

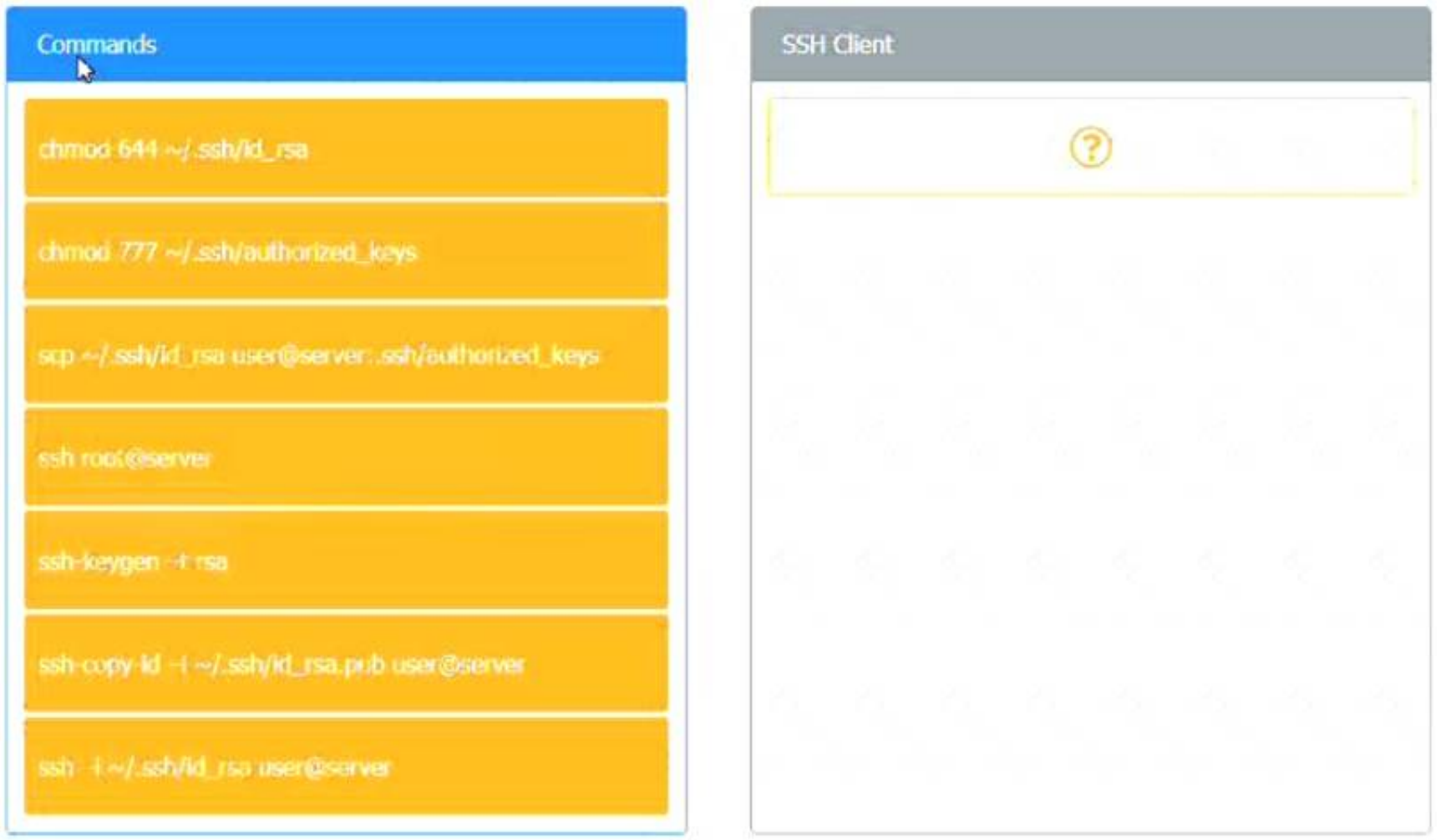
Answer: A

NEW QUESTION 192
An organization just experienced a major cyberattack modem. 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

Answer: D

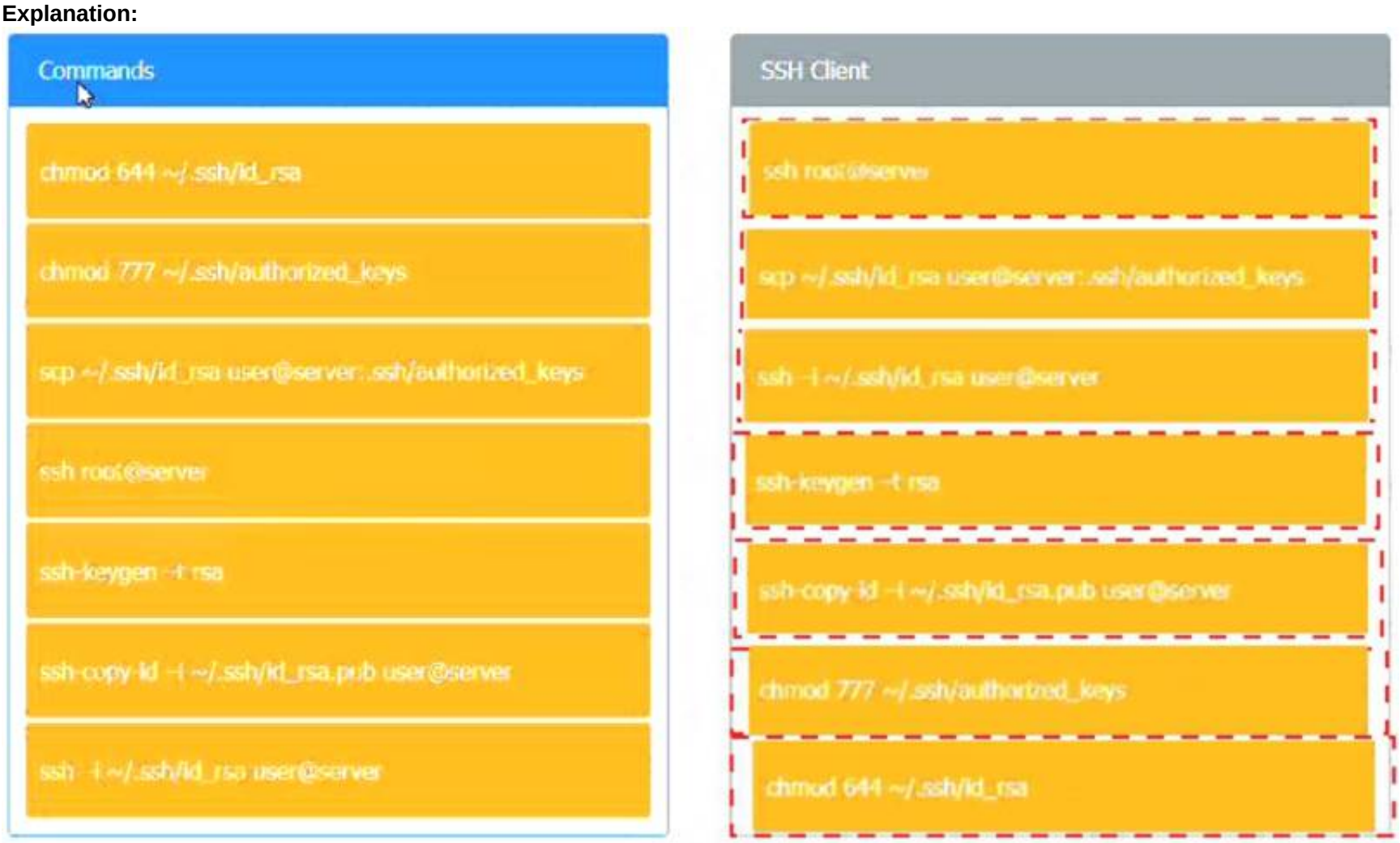
NEW QUESTION 197
A security engineer is setting up passwordless authentication for the first time. INSTRUCTIONS
Use the minimum set of commands to set this up and verify that it works. Commands cannot be reused.
If at any time you would like to bring back the initial state of the simulation, please click the Reset All button.



A. Mastered
B. Not Mastered

Answer: A

Explanation:



NEW QUESTION 199
Which of the following would be BEST to establish between organizations that have agreed cooperate and are engaged in early discussion to define the responsibilities of each party, but do not want to establish a contractually binding agreement?

A. An SLA
B. AnNDA
C. ABPA
D. AnMOU

Answer: D

NEW QUESTION 203
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

Answer: B

NEW QUESTION 208
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.

Answer: B

NEW QUESTION 209
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

Answer: C

NEW QUESTION 212
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 214
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.

Answer: B

NEW QUESTION 218
A security analyst discovers that a company username and password database was posted on an internet forum. The username and passwords are stored in plan 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

Answer:

A

NEW QUESTION 223
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

Answer: D

NEW QUESTION 227
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 231
An end user reports a computer has been acting slower than normal for a few weeks. During an investigation, an analyst determines the system is sending the user's email address and a ten-digit number to an IP address once a day. The only recent log entry regarding the user's computer is the following:

```
Time: 06:32:29 UTC
Event Description: This file meets the ML algorithm's medium-confidence threshold.
Process Blocked: False
File Quarantined: False
Operating System: Windows 10
File Name: \Device\HarddiskVolume4\Users\jdoe\AppData\Local\Microsoft\Windows\INetCache\IE\pdftodocx.msi
Connection Details: 35.242.219.204:80
```

Which of the following is the MOST likely cause of the issue?

A. The end user purchased and installed a PUP from a web browser
B. A bot on the computer is brute forcing passwords against a website
C. A hacker is attempting to exfiltrate sensitive data
D. Ransomware is communicating with a command-and-control server.

Answer: A

NEW QUESTION 232
A security analyst is performing a forensic investigation compromised account credentials. Using the Event Viewer, the analyst able to detect the following message, ''Special privileges assigned to new login.'' 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

Answer: A

NEW QUESTION 233
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