ETHICAL HACKING

Assignment 1

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Nmap Scan Report for `testphp.vulnweb.com`

Target IP: `44.228.249.3`
Domain: `testphp.vulnweb.com`
Date: August 1, 2025
Purpose: Reconnaissance scan on a deliberately vulnerable website for ethical hacking practice.

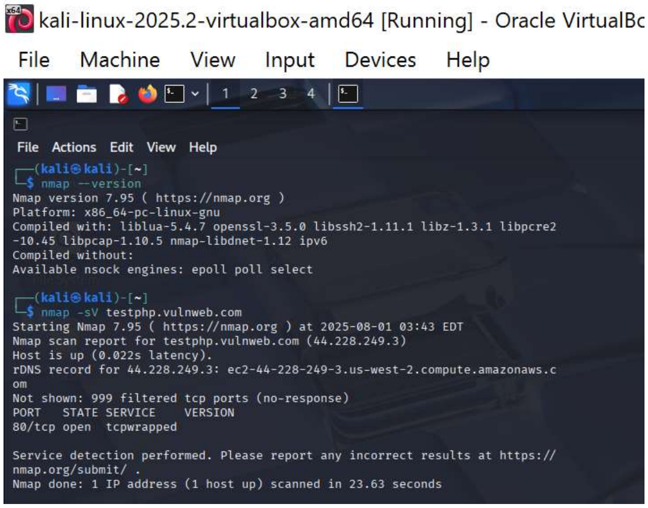
Command:

```
nmap -sV -p 80 testphp.vulnweb.com
```

Description:

- `-sV`: Attempts to detect the version of the service running on port 80.
- `-p 80`: Scans only port 80 (HTTP).

Result:

- **PORT 80/tcp: filtered**
- Meaning: Port 80 was not responsive or blocked by a firewall, preventing service detection.
- 

kali-linux-2025.2-virtualbox-amd64 [Running] - Oracle VirtualBc
File Machine View Input Devices Help
1 2 3 4
File Actions Edit View Help

```
┌──(kali㉿kali)-[~]
└─$ nmap --version
Nmap version 7.95 ( https://nmap.org )
Platform: x86_64-pc-linux-gnu
Compiled with: liblua-5.4.7 openssl-3.5.0 libssh2-1.11.1 libz-1.3.1 libpcre2
-10.45 libpcap-1.10.5 nmap-libdnet-1.12 ipv6
Compiled without:
Available nsock engines: epoll poll select

┌──(kali㉿kali)-[~]
└─$ nmap -sV testphp.vulnweb.com
Starting Nmap 7.95 ( https://nmap.org ) at 2025-08-01 03:43 EDT
Nmap scan report for testphp.vulnweb.com (44.228.249.3)
Host is up (0.022s latency).
rDNS record for 44.228.249.3: ec2-44-228-249-3.us-west-2.compute.amazonaws.c
om
Not shown: 999 filtered tcp ports (no-response)
PORT   STATE SERVICE    VERSION
80/tcp open  tcpwrapped

Service detection performed. Please report any incorrect results at https://
nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 23.63 seconds
```

Second Attempt with Adjusted Flags

Command:

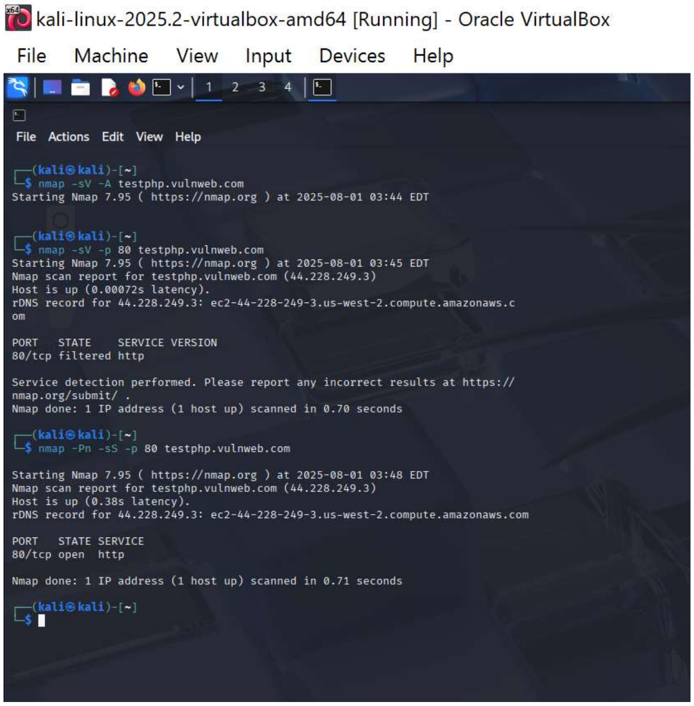
```
nmap -Pn -sS -p 80 testphp.vulnweb.com
```

Description:

- `-Pn`: Disables host discovery (skips ping). Useful when ICMP is blocked.
- `-sS`: Performs a stealth SYN scan to check for open ports.
- `-p 80`: Scans port 80.

Result:

```
PORT   STATE SERVICE
80/tcp open  http
```



kali-linux-2025.2-virtualbox-amd64 [Running] - Oracle VirtualBox
File Machine View Input Devices Help
1 2 3 4
File Actions Edit View Help

```
┌──(kali㉿kali)-[~]
└─$ nmap -sV -A testphp.vulnweb.com
Starting Nmap 7.95 ( https://nmap.org ) at 2025-08-01 03:44 EDT


┌──(kali㉿kali)-[~]
└─$ nmap -sV -p 80 testphp.vulnweb.com
Starting Nmap 7.95 ( https://nmap.org ) at 2025-08-01 03:45 EDT
Nmap scan report for testphp.vulnweb.com (44.228.249.3)
Host is up (0.00072s latency).
rDNS record for 44.228.249.3: ec2-44-228-249-3.us-west-2.compute.amazonaws.c
om

PORT   STATE    SERVICE VERSION
80/tcp filtered http

Service detection performed. Please report any incorrect results at https://
nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 0.70 seconds

┌──(kali㉿kali)-[~]
└─$ nmap -Pn -sS -p 80 testphp.vulnweb.com

Starting Nmap 7.95 ( https://nmap.org ) at 2025-08-01 03:48 EDT
Nmap scan report for testphp.vulnweb.com (44.228.249.3)
Host is up (0.38s latency).
rDNS record for 44.228.249.3: ec2-44-228-249-3.us-west-2.compute.amazonaws.com

PORT   STATE SERVICE
80/tcp open  http

Nmap done: 1 IP address (1 host up) scanned in 0.71 seconds

┌──(kali㉿kali)-[~]
└─$ 
```

- Port 80 is **open**, confirming the presence of an active HTTP service.

- The **first scan** failed to detect the service due to **filtered port** (possibly blocked ICMP or TCP handshake attempts).
- The **second scan** succeeded by bypassing ping and using a stealth method, confirming **port 80 is open**.
- The active HTTP service indicates potential attack surface for testing vulnerabilities like **SQLi, XSS, LFI**, etc.
