

SHADOWFOX CYBER SECURITY INTERNSHIP TASKS

Task Level (Beginner):

1. Open Ports Scan (Nmap)

- Ran a nmap scan

#nmap -sS -sV -p- <http://testphp.vulnweb.com/>

```
(root@kali)-[~]
# nmap -sS -sV -p- testphp.vulnweb.com
Starting Nmap 7.94SVN ( https://nmap.org ) at 2025-04-13 12:54 EDT
Stats: 0:00:57 elapsed; 0 hosts completed (1 up), 1 undergoing SYN Stealth Scan
SYN Stealth Scan Timing: About 7.36% done; ETC: 13:07 (0:11:57 remaining)
Stats: 0:02:25 elapsed; 0 hosts completed (1 up), 1 undergoing SYN Stealth Scan
SYN Stealth Scan Timing: About 13.54% done; ETC: 13:12 (0:15:26 remaining)
Stats: 0:07:46 elapsed; 0 hosts completed (1 up), 1 undergoing SYN Stealth Scan
SYN Stealth Scan Timing: About 35.77% done; ETC: 13:16 (0:13:57 remaining)
Stats: 0:15:55 elapsed; 0 hosts completed (1 up), 1 undergoing SYN Stealth Scan
SYN Stealth Scan Timing: About 70.94% done; ETC: 13:17 (0:06:31 remaining)
Stats: 0:19:19 elapsed; 0 hosts completed (1 up), 1 undergoing SYN Stealth Scan
SYN Stealth Scan Timing: About 85.59% done; ETC: 13:17 (0:03:15 remaining)
Stats: 0:22:21 elapsed; 0 hosts completed (1 up), 1 undergoing SYN Stealth Scan
SYN Stealth Scan Timing: About 98.23% done; ETC: 13:17 (0:00:24 remaining)
Stats: 0:22:39 elapsed; 0 hosts completed (1 up), 1 undergoing SYN Stealth Scan
SYN Stealth Scan Timing: About 99.53% done; ETC: 13:17 (0:00:06 remaining)
```

-sS: TCP SYN scan

-sV: Service version detection

-p-: Scan all 65535 ports

- Result

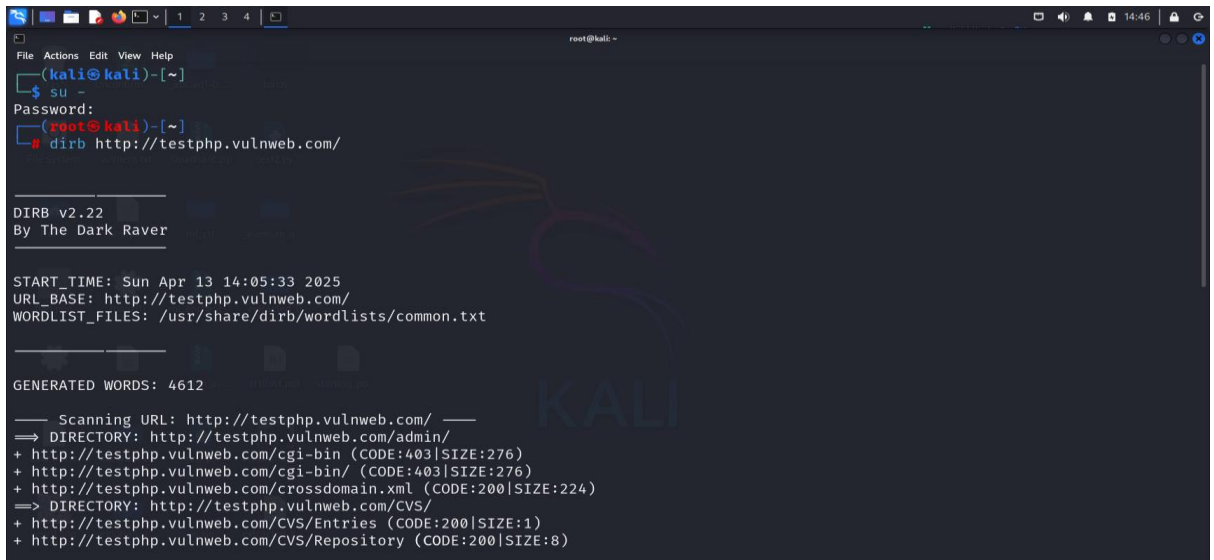
```
Stats: 0:23:11 elapsed; 0 hosts completed (1 up), 1 undergoing Service Scan
Service scan Timing: About 25.00% done; ETC: 13:19 (0:01:24 remaining)
Stats: 0:25:07 elapsed; 0 hosts completed (1 up), 1 undergoing Service Scan
Service scan Timing: About 50.00% done; ETC: 13:22 (0:02:21 remaining)
Nmap scan report for testphp.vulnweb.com (44.228.249.3)
Host is up (0.00031s latency).
rDNS record for 44.228.249.3: ec2-44-228-249-3.us-west-2.compute.amazonaws.com
Not shown: 65531 filtered tcp ports (no-response)
PORT      STATE SERVICE VERSION
21/tcp    open  ftp?
80/tcp    open  http   nginx 1.19.0
554/tcp   open  rtsp?
1723/tcp  open  pptp?

Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 1534.06 seconds
```

PORT	STATE	SERVICE
21/tcp	open	ftp
80/tcp	open	http
554/tcp	open	rtsp
1723/tcp	open	pptp

2.Brute Force Directories

- **Target:** <http://testphp.vulnweb.com/>
- Used Dirb v2.22

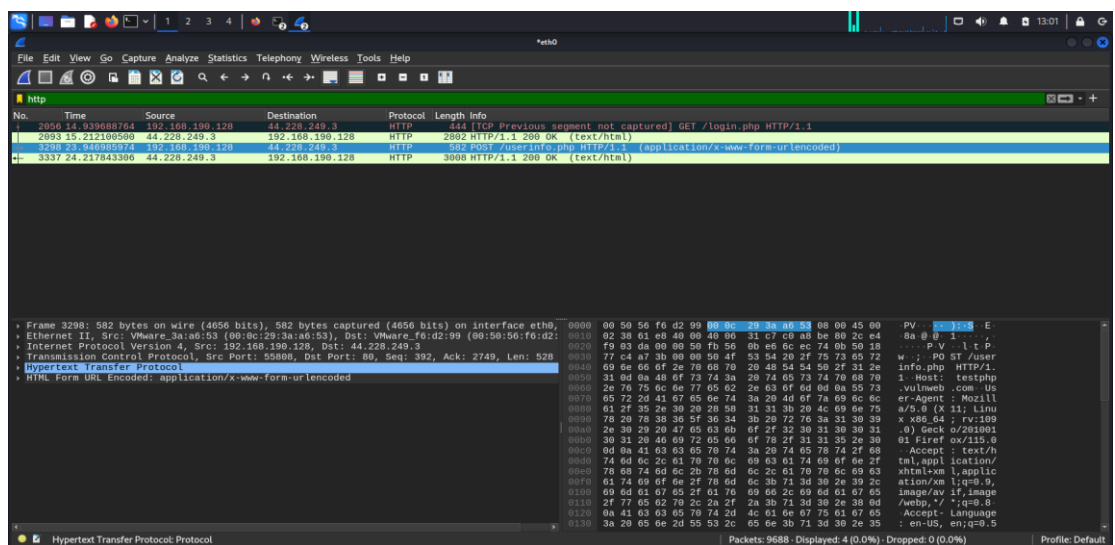


```
root@kali: ~  
File Actions Edit View Help  
(kali@kali)-[~]  
$ su -  
Password:  
(root@kali)-[~]  
# dirb http://testphp.vulnweb.com/  
  
DIRB v2.22  
By The Dark Raver  
  
START_TIME: Sun Apr 13 14:05:33 2025  
URL_BASE: http://testphp.vulnweb.com/  
WORDLIST_FILES: /usr/share/dirb/wordlists/common.txt  
  
GENERATED WORDS: 4612  
  
— Scanning URL: http://testphp.vulnweb.com/ —  
=> DIRECTORY: http://testphp.vulnweb.com/admin/  
+ http://testphp.vulnweb.com/cgi-bin (CODE:403|SIZE:276)  
+ http://testphp.vulnweb.com/cgi-bin/ (CODE:403|SIZE:276)  
+ http://testphp.vulnweb.com/crossdomain.xml (CODE:200|SIZE:224)  
=> DIRECTORY: http://testphp.vulnweb.com/CVS/  
+ http://testphp.vulnweb.com/CVS/Entries (CODE:200|SIZE:1)  
+ http://testphp.vulnweb.com/CVS/Repository (CODE:200|SIZE:8)
```

- generated words: 4612
- **Scan Duration:** ~27 minutes
- Discovered Directories (7) are:
 - <http://testphp.vulnweb.com/admin/>
 - <http://testphp.vulnweb.com/cgi-bin/> (CODE:403|SIZE:276)
 - <http://testphp.vulnweb.com/CVS/>
 - <http://testphp.vulnweb.com/images/>
 - <http://testphp.vulnweb.com/pictures/>
 - <http://testphp.vulnweb.com/secured/>
 - <http://testphp.vulnweb.com/vendor/>

3.Login Credentials through Wireshark

- Opened wireshark - #wireshark
- Selected the active network interface
- Started capturing packets and filtered http packets after logging using credentials Username= test and Password=test in <http://testphp.vulnweb.com/>.



- Found a POST request to /userinfo.php.
- Then , Right-click on the packet → Follow → HTTP Stream.



- Therefore, found the credentials by inspecting the packet.