BONUS - S6/L5

BONUS - CRACKING SSH - METASPLOITABLE

 Prima di tutto testiamo la comunicazione tra Kali e Metasploitable eseguendo un ping bidirezionale:

```
(kali⊕ kali)-[~]
$ ping 192.168.1.10
PING 192.168.1.10 (192.168.1.10) 56(84) bytes of data.
64 bytes from 192.168.1.10: icmp_seq=1 ttl=64 time=0.383 ms
64 bytes from 192.168.1.10: icmp_seq=2 ttl=64 time=0.178 ms
```

```
msfadmin@metasploitable:~$ ping 192.168.1.5

PING 192.168.1.5 (192.168.1.5) 56(84) bytes of data.

64 bytes from 192.168.1.5: icmp_seq=1 ttl=64 time=0.240 ms

64 bytes from 192.168.1.5: icmp_seq=2 ttl=64 time=0.196 ms

64 bytes from 192.168.1.5: icmp_seq=3 ttl=64 time=0.190 ms

64 bytes from 192.168.1.5: icmp_seq=4 ttl=64 time=0.198 ms
```

Ora avviamo il servizio ssh sia su Kali che su meta:

```
msfadmin@metasploitable:"$ sudo /etc/init.d/ssh start

* Starting OpenBSD Secure Shell server sshd [ OK ]
```

```
—(kali⊕kali)-[~]
—$ <u>sudo</u> service ssh start
```

 Per testare la connessione provo ad entrare con il comando ssh msfadmin@192.168.1.10:

```
-(kali⊕kali)-[~]
 —$ ssh msfadmin@192.168.1.10
The authenticity of host '192.168.1.10 (192.168.1.10)' can't be established.
RSA key fingerprint is SHA256:BQHm5EoHX9GCiOLuVscegPXLQOsuPs+E9d/rrJB84rk.
This key is not known by any other names.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added '192.168.1.10' (RSA) to the list of known hosts.
msfadmina192.168.1.10's password:
Linux metasploitable 2.6.24-16-server #1 SMP Thu Apr 10 13:58:00 UTC 2008 i686
The programs included with the Ubuntu system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.
Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by
applicable law.
To access official Ubuntu documentation, please visit:
http://help.ubuntu.com/
No mail.
Last login: Fri Jan 17 08:11:55 2025
msfadmin@metasploitable:~$
```

- Come si vede il servizio è funzionante.
- Dato che Metasploitable utilizza algoritmi obsoleti per ssh, utilizzo da Kali il tool Medusa che è compatibile con questi algoritmi.
- Invio il comando dove specifico le librerie da utilizzare e il protocollo ssh:

 La sintassi è leggermente diversa da quella di Hydra ma la logica rimane la stessa. • Questo è l'output:

```
ACCOUNT CHECK: [ssh] Host: 192.168.1.11 (1 of 1, 0 complete) User: msfadmin (1 of 6, 0 complete) Password: afhuifg (1 of 3 complete) ACCOUNT CHECK: [ssh] Host: 192.168.1.11 (1 of 1, 0 complete) User: msfadmin (1 of 6, 0 complete) Password: vwerwe (2 of 3 complete) ACCOUNT CHECK: [ssh] Host: 192.168.1.11 (1 of 1, 0 complete) User: msfadmin (1 of 6, 0 complete) Password: msfadmin (3 of 3 complete) ACCOUNT FOUND: [ssh] Host: 192.168.1.11 User: msfadmin Password: msfadmin [SUCCESS] ACCOUNT CHECK: [ssh] Host: 192.168.1.11 (1 of 1, 0 complete) User: ciao (2 of 6, 1 complete) Password: afhuifg (1 of 3 complete) ACCOUNT CHECK: [ssh] Host: 192.168.1.11 (1 of 1, 0 complete) User: ciao (2 of 6, 1 complete) Password: wwerwe (2 of 3 complete) ACCOUNT CHECK: [ssh] Host: 192.168.1.11 (1 of 1, 0 complete) User: ciao (2 of 6, 1 complete) Password: msfadmin (3 of 3 complete)
```

• Come si vede ha trovato username e password corretti!!