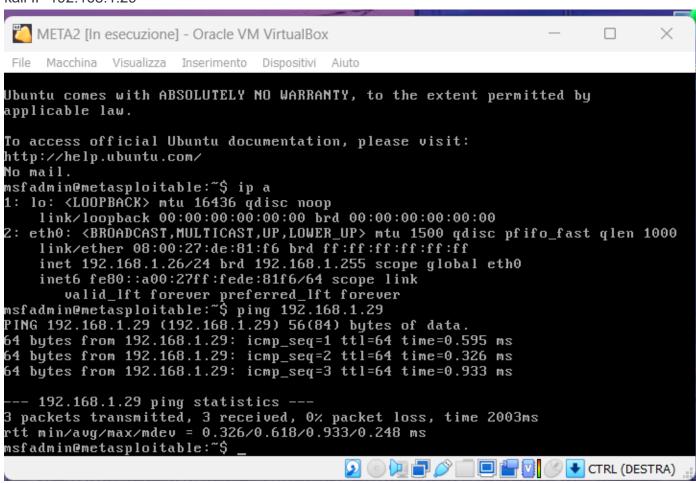
# W11D1

le due macchine si pingano

metasploitable 2 IP 192.168.1.3

```
(kali@ kali)-[~]
$ ping 192.168.1.3
PING 192.168.1.3 (192.168.1.3) 56(84) bytes of data.
64 bytes from 192.168.1.3: icmp_seq=1 ttl=64 time=18.6 ms
64 bytes from 192.168.1.3: icmp_seq=2 ttl=64 time=4.68 ms
64 bytes from 192.168.1.3: icmp_seq=3 ttl=64 time=5.00 ms
^C
— 192.168.1.3 ping statistics —
3 packets transmitted, 3 received, 0% packet loss, time 2009ms
rtt min/avg/max/mdev = 4.680/9.429/18.611/6.493 ms
```

kali IP 192.168.1.29



```
-(kali⊕kali)-[~]
 -$ <u>sudo</u> nmap -0 --osscan-limit 192.168.1.26
Starting Nmap 7.94SVN ( https://nmap.org ) at 2024-04-30 17:25 CEST
Nmap scan report for Host-004.homenet.telecomitalia.it (192.168.1.26)
Host is up (0.00056s latency).
Not shown: 978 closed tcp ports (reset)
PORT
        STATE SERVICE
21/tcp
        open ftp
22/tcp
        open
              ssh
23/tcp
        open telnet
25/tcp
        open smtp
53/tcp
        open domain
80/tcp
        open
              http
111/tcp
              rpcbind
        open
139/tcp
        open netbios-ssn
445/tcp open microsoft-ds
512/tcp open
              exec
513/tcp
        open
              login
514/tcp open shell
1099/tcp open rmiregistry
1524/tcp open ingreslock
2121/tcp open
              ccproxy-ftp
3306/tcp open
              mysql
5432/tcp open
              postgresql
5900/tcp open
              vnc
6000/tcp open
              X11
6667/tcp open
              irc
8009/tcp open ajp13
8180/tcp open unknown
MAC Address: 08:00:27:DE:81:F6 (Oracle VirtualBox virtual NIC)
Device type: general purpose
Running: Linux 2.6.X
OS CPE: cpe:/o:linux:linux_kernel:2.6
OS details: Linux 2.6.9 - 2.6.33
Network Distance: 1 hop
OS detection performed. Please report any incorrect results at https://nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 1.60 seconds
```

-0

tenta invece di verificare il sistema operativo

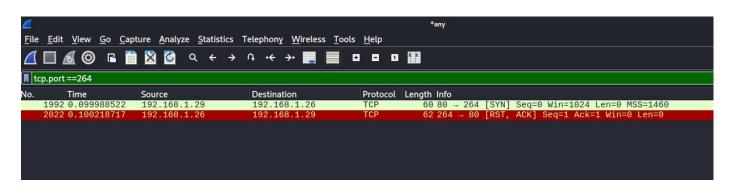
### --osscan-limit

Questa opzione limita la scansione del sistema operativo di nmap, riducendo il numero di pacchetti inviati per l'identificazione del sistema operativo. Limitare il numero di pacchetti inviati può aiutare a ridurre il rischio di rilevamento da parte di sistemi di protezione, firewall o intrusion detection systems (IDS). Tuttavia, riducendo il numero di pacchetti inviati, si può anche ridurre l'accuratezza dell'identificazione del sistema operativo.

```
—(kali⊕kali)-[~]
<u>sudo</u> nmap -sS 192.168.1.26 -- source-port 80
Starting Nmap 7.94SVN ( https://nmap.org ) at 2024-04-30 17:38 CEST
Nmap scan report for Host-004.homenet.telecomitalia.it (192.168.1.26)
Host is up (0.00022s latency).
Not shown: 978 closed tcp ports (reset)
PORT
        STATE SERVICE
21/tcp
        open ftp
22/tcp
        open ssh
23/tcp
        open
              telnet
25/tcp
        open
              smtp
53/tcp
        open domain
80/tcp
        open http
111/tcp open rpcbind
139/tcp open netbios-ssn
445/tcp open microsoft-ds
512/tcp open exec
513/tcp open
              login
514/tcp open
              shell
1099/tcp open
              rmiregistry
             ingreslock
1524/tcp open
2121/tcp open ccproxy-ftp
3306/tcp open mysql
5432/tcp open postgresql
5900/tcp open
             vnc
6000/tcp open X11
6667/tcp open
              irc
8009/tcp open ajp13
8180/tcp open unknown
MAC Address: 08:00:27:DE:81:F6 (Oracle VirtualBox virtual NIC)
Nmap done: 1 IP address (1 host up) scanned in 0.18 seconds
```

effettua solo la scansione con il syn senza aspettare il syn ack quindi il Three handshake

come si può vedere da immagine di wireshark qui sotto



#### con -SV verifica i servizi attivi

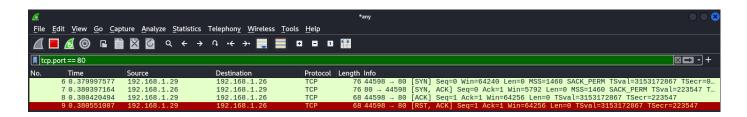
```
$ sudo nmap -sV 192.168.1.26 --source-port 80
Starting Nmap 7.945VN (https://nmap.org) at 2024-04-30 17:43 CEST
Nmap scan report for Host-004.homenet.telecomitalia.it (192.168.1.26)
Host is up (0.00012s latency).
Not shown: 978 closed tcp ports (reset)
PORT STATE SERVICE VERSION
           open ftp
open ssh
21/tcp
                                  vsftpd 2.3.4
                                  OpenSSH 4.7p1 Debian 8ubuntu1 (protocol 2.0)
22/tcp
23/tcp
25/tcp
53/tcp
                                  Linux telnetd
           open telnet
           open smtp
                                  Postfix smtpd
                                  ISC BIND 9.4.2
           open domain
80/tcp
                                  Apache httpd 2.2.8 ((Ubuntu) DAV/2)
           open http
                   rpcbind
111/tcp open
                                  2 (RPC #100000)
139/tcp
445/tcp
                    tcpwrapped
           open tcpwrapped
512/tcp open exec?
513/tcp open
                    login
                                  OpenBSD or Solaris rlogind
514/tcp open tcpwrapped
1099/tcp open
                    java-rmi
                                 GNU Classpath grmiregistry
1524/tcp open bindshell Metasploitable root shell
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)
                                  (access denied)
6000/tcp open X11
6667/tcp open
8009/tcp open ajp13 Apache Jserv (Protocol v1.3)
8180/tcp open http Apache Tomcat/Coyote JSP engine 1.1
MAC Address: 08:00:27:DE:81:F6 (Oracle VirtualBox virtual NIC)
8009/tcp open ajp13
8180/tcp open http
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 63.63 seconds
```

#### con -sT effettua il 3HS

```
(kali@ kali) [-]

| Sudo map - sT 192.168.1.26 — source-port 80 |
| WARNING: _g is incompatible with the default connect() scan (-sT). Use a raw scan such as -s5 if you want to set the source port.
| Starting Mmap 7.95VN ( https://mmap.org ) at 2024-04-30 17:46 CEST |
| You have specified some options that require raw socket access.
| These options will not be honored for TCP Connect scan. |
| Namp scan report for Not-7004. homent-telecomitalia.it (192.168.1.26) |
| Nos shown 750 closed top ports (conn-refused) |
| Subort 750 closed top
```

## come si può vedere dall'immagine qui sotto



possiamo utilizzare gli script di nmap che si trovano

/usr/share/nmap/scripts

ma con metasploitable 2 non ritorna nessun risultato utile

```
(kali® kali)-[~]
$ /usr/share/nmap/scripts

(kali® kali)-[/usr/share/nmap/scripts]
$ nmap 192.168.1.3 --script smb-os-discovery
Starting Nmap 7.94SVN ( https://nmap.org ) at 2024-04-30 20:06 CEST
Nmap scan report for Air-di-Diego.homenet.telecomitalia.it (192.168.1.3)
Host is up (0.022s latency).
Not shown: 996 closed tcp ports (conn-refused)
PORT STATE SERVICE
22/tcp open ssh
445/tcp open microsoft-ds
5000/tcp open upnp
7000/tcp open afs3-fileserver
Nmap done: 1 IP address (1 host up) scanned in 3.80 seconds
```