Setting ip Meta

```
Meta [In esecuzione] - Oracle VM VirtualBox
To access official Ubuntu documentation, please visit:
http://help.ubuntu.com/
```

```
冏
                                   daniele@kali: ~
File Actions Edit View Help
ifconfig
eth0: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
        inet 192.168.50.102 netmask 255.255.255.0 broadcast 192.168.50.255
       ether 08:00:27:53:43:47 txqueuelen 1000 (Ethernet)
       RX packets 250 bytes 23736 (23.1 KiB)
       RX errors 0 dropped 0 overruns 0 frame 0
       TX packets 47 bytes 4477 (4.3 KiB)
       TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
```

Ip Windows 7

```
- - X
C:\Windows\system32\cmd.exe
Microsoft Windows [Version 6.1.7601]
Copyright (c) 2009 Microsoft Corporation.  All rights reserved.
                                                                                                   C:\Users\vboxuser>ipconfig
Windows IP Configuration
Ethernet adapter Local Area Connection:
   Connection-specific DNS Suffix
Link-local IPv6 Address . . . .
                                             : fe80::824:dcd5:a3ce:8f0dx11
: 192.168.50.100
: 255.255.255.0
   IPv4 Address. . . . . . . . . . . . . . . . .
   Tunnel adapter isatap.<0A9A865E-AF70-4C62-A26B-66846626BB90>:
   Media State . . . . . . . . : Media disconnected Connection-specific DNS Suffix . :
C:\Users\vboxuser}_
```

Risultato OS fingerprint verso meta

Scansione con SYN, meno invasiva, bassa affidabilità

```
$ sudo nmap -sS 192.168.50.101
Starting Nmap 7.94 ( https://nmap.org ) at 2023-10-25 14:19 CEST
mass dns: warning: Unable to determine any DNS servers. Reverse DNS is disabled. Try using -- system-dns o
r specify valid servers with -- dns-servers
Nmap scan report for 192.168.50.101
Host is up (0.000056s latency).
Not shown: 977 closed tcp ports (reset)
         STATE SERVICE
PORT
21/tcp open ftp
22/tcp open ssh
          open telnet
open smtp
23/tcp
25/tcp
         open domain
open http
53/tcp
80/tcp
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
1524/tcp open ingreslock
2049/tcp open nfs
2121/tcp open ccproxy-ftp
3306/tcp open mysql
5432/tcp open postgresql
5900/tcp open vnc
6000/tcp open X11
6667/tcp open
8009/tcp open ajp13
8180/tcp open unknown
MAC Address: 08:00:27:B5:51:77 (Oracle VirtualBox virtual NIC)
Nmap done: 1 IP address (1 host up) scanned in 0.21 seconds
```

Scansione con three way handshake, molto invasiva ma molto affidabile

```
—(daniele⊛kali)-[~]
| Starting Nmap 7.94 (https://nmap.org ) at 2023-10-25 14:19 CEST mass_dns: warning: Unable to determine any DNS servers. Reverse DNS is disabled. Try using --system-dns or its walld servers with --dns-servers
Nmap scan report for 192.168.50.101
Host is up (0.000082s latency).
Not shown: 977 closed tcp ports (conn-refused)
PORT STATE SERVICE
21/tcp open ftp
22/tcp
23/tcp
                open ssh
open telnet
25/tcp open smtp
53/tcp open domain
80/tcp open http
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
1524/tcp open ingreslock
2049/tcp open ccproxy-ftp
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:B5:51:77 (Oracle VirtualBox virtual NIC)
Nmap done: 1 IP address (1 host up) scanned in 0.10 seconds
```

```
–(daniele⊕kali)-[~]
  -$ <u>sudo</u> nmap -sV 192.168.50.101
Starting Nmap 7.94 ( https://nmap.org ) at 2023-10-25 14:20 CEST
mass_dns: warning: Unable to determine any DNS servers. Reverse DNS is disabled. Try using --system-dns o
r specify valid servers with --dns-servers
Nmap scan report for 192.168.50.101
Host is up (0.000077s latency).
Not shown: 977 closed tcp ports (reset)
           STATE SERVICE
PORT
                                   VERSION
21/tcp
           open ftp
                                  vsftpd 2.3.4
           open ssh
open telnet
22/tcp
                                  OpenSSH 4.7p1 Debian 8ubuntu1 (protocol 2.0)
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
23/tcp
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)
                                  ProFTPD 1.3.1
MySQL 5.0.51a-3ubuntu5
2121/tcp open ftp
3306/tcp open mysql
5432/tcp open postgresql PostgreSQL DB 8.3.0 - 8.3.7
5900/tcp open vnc
6000/tcp open X11
                                  VNC (protocol 3.3)
                                  (access denied)
                                  UnrealIRCd
6667/tcp open irc
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:B5:51:77 (Oracle VirtualBox virtual NIC)
Service Info: Hosts: metasploitable.localdomain, irc.Metasploitable.LAN; OSs: Unix, Linux; CPE: cpe:/o:l
inux: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 52.39 seconds
```

OS fingerprint verso windows, con e senza ping. Il firewall di windows 7 blocca le richieste, pertanto non abbiamo alcun risultato. Provando con -TO, comunque non riceviamo risposta.

```
-(daniele⊕kali)-[~]
$ <u>sudo</u> nmap -0 192.168.50.100
Starting Nmap 7.94 ( https://nmap.org ) at 2023-10-25 14:21 CEST
mass_dns: warning: Unable to determine any DNS servers. Reverse DNS is disabled. Try using --system-dns o
r specify valid servers with --dns-servers
Nmap scan report for 192.168.50.100
Host is up (0.00028s latency).
All 1000 scanned ports on 192.168.50.100 are in ignored states.
Not shown: 1000 filtered tcp ports (no-response)
MAC Address: 08:00:27:B9:D2:5A (Oracle VirtualBox virtual NIC)
Too many fingerprints match this host to give specific OS details
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 27.55 seconds
(daniele⊛ kali)-[~]

$ sudo nmap -Pn -O 192.168.50.100
Starting Nmap 7.94 ( https://nmap.org ) at 2023-10-25 14:22 CEST
mass_dns: warning: Unable to determine any DNS servers. Reverse DNS is disabled. Try using --system-dns o
r specify valid servers with --dns-servers
Nmap scan report for 192.168.50.100 Host is up (0.00016s latency).
All 1000 scanned ports on 192.168.50.100 are in ignored states.
Not shown: 1000 filtered tcp ports (no-response)
MAC Address: 08:00:27:B9:D2:5A (Oracle VirtualBox virtual NIC)
Too many fingerprints match this host to give specific OS details
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 27.28 seconds
```

Disabilitando il firewall, invece, riceviamo risposta.

Con i seguenti comandi, invece, facciamo una scansione sulle versioni dei protocolli usati, 3 ways hand shake e os fingerprint, sul range di ip da 50.100 a 50.110

```
(daniele⊕ kali)-[~]

$ sudo mmap -sV -sT -0 192.168.50.100-110

Starting Nmap 7.94 ( https://mmap.org ) at 2023-10-25 14:49 CEST
mass_dns: warning: Unable to determine any DNS servers. Reverse DNS is disabled. Try using --system-dns o
r specify valid servers with --dns-servers

Stats: 0:00:57 elapsed; 8 hosts completed (2 up), 2 undergoing Service Scan

Service scan Timing: About 81.25% done; ETC: 14:50 (0:00:12 remaining)

Nmap scan report for 192.168.50.100

Host is up (0.00027s latency).

Not shown: 991 closed tcp ports (conn-refused)

PORT STATE SERVICE VERSION

135/tcp open msrpc Microsoft Windows RPC

139/tcp open netbios-ssn Microsoft Windows RPC

49152/tcp open msrpc Microsoft Windows RPC

49153/tcp open msrpc Microsoft Windows RPC

49153/tcp open msrpc Microsoft Windows RPC

49153/tcp open msrpc Microsoft Windows RPC

49155/tcp open msrpc Microsoft Windows RPC

49156/tcp open msrpc Microsoft Windows RPC

49157/tcp open msrpc Microsoft Windows RPC

49156/tcp open msrpc Microsoft Windows RPC

49157/tcp open msrpc Microsoft Windows RPC

49157/tcp open msrpc Microsoft Windows RPC

49156/tcp open msrpc Microsoft Windows RPC

49157/tcp open msrpc Microsoft Windows RPC

49157/tcp open msrpc Microsoft Windows RPC

49156/tcp open msrpc Microsoft Windows RPC

49157/tcp open msrpc Microsoft Windows RPC

49157/tcp open msrpc Microsoft Windows RPC

59156/tcp open msrpc Microsoft Windows RPC

49157/tcp open msrpc Microsoft Windows RPC

49157/tcp open msrpc Microsoft Windows RPC

59156/tcp open Mic
    0S:1XGCD=1XISR=105XTI=1XCI=1XII=1XSS=5XTS=7)SEQ(SP=FC%GCD=1XISR=104XTI=1XCI
S:=1XII=1XSS=5XTS=7)SEQ(SP=FE%GCD=1XISR=105XTI=TXCI=TXII=TXSS=5XTS=7)OPS(0
OS:1=M5B4NW8ST11XO2=M5B4NW8ST11XO3=M5B4NW8NNT11XO4=M5B4NW8ST11XO5=M5B4NW8ST
OS:11X06=M5B4ST11)W1N(W1=2000XW2=2000XW3=2000XW6=2000XW6=2000XW6=2000)ECN(R
OS:=XXDF=XYX=180XW=2000X0=M5B4NW8NNXSCC=NXQ=711(R=YXDF=XYT=00XS=20A0)=2000XW6=2000XW6=2000XW6=2000XW6=2000XW6=2000XW6=2000XW6=2000XW6=2000XW6=2000XW6=2000XW6=2000XW6=2000XW6=2000XW6=2000XW6=2000XW6=2000XW6=2000XW6=2000XW6=2000XW6=2000XW6=2000XW6=2000XW6=2000XW6=2000XW6=2000XW6=2000XW6=2000XW6=2000XW6=2000XW6=2000XW6=2000XW6=2000XW6=2000XW6=2000XW6=2000XW6=2000XW6=2000XW6=2000XW6=2000XW6=2000XW6=2000XW6=2000XW6=2000XW6=2000XW6=2000XW6=2000XW6=2000XW6=2000XW6=2000XW6=2000XW6=2000XW6=2000XW6=2000XW6=2000XW6=2000XW6=2000XW6=2000XW6=2000XW6=2000XW6=2000XW6=2000XW6=2000XW6=2000XW6=2000XW6=2000XW6=2000XW6=2000XW6=2000XW6=2000XW6=2000XW6=2000XW6=2000XW6=2000XW6=2000XW6=2000XW6=2000XW6=2000XW6=2000XW6=2000XW6=2000XW6=2000XW6=2000XW6=2000XW6=2000XW6=2000XW6=2000XW6=2000XW6=2000XW6=2000XW6=2000XW6=2000XW6=2000XW6=2000XW6=2000XW6=2000XW6=2000XW6=2000XW6=2000XW6=2000XW6=2000XW6=2000XW6=2000XW6=2000XW6=2000XW6=2000XW6=2000XW6=2000XW6=2000XW6=2000XW6=2000XW6=2000XW6=2000XW6=2000XW6=2000XW6=2000XW6=2000XW6=2000XW6=2000XW6=2000XW6=2000XW6=2000XW6=2000XW6=2000XW6=2000XW6=2000XW6=2000XW6=2000XW6=2000XW6=2000XW6=2000XW6=2000XW6=2000XW6=2000XW6=2000XW6=2000XW6=2000XW6=2000XW6=2000XW6=2000XW6=2000XW6=2000XW6=2000XW6=2000XW6=2000XW6=2000XW6=2000XW6=2000XW6=2000XW6=2000XW6=2000XW6=2000XW6=2000XW6=2000XW6=2000XW6=2000XW6=2000XW6=2000XW6=2000XW6=2000XW6=2000XW6=2000XW6=2000XW6=200X%00X%00X%00X6=2000XW6=2000XW6=2000XW6=2000XW6=2000XW6=2000XW6=2000XW6=2000XW6=2000XM6=2000XM6=2000XM6=2000XM6=2000XM6=2000XW6=2000XM6=2000XM6=2000XM6=2000XM6=2000X6=200X6=200X6=200X6=200X6=200X6=200X6=200X6=200X6=200X6=200X6=200X6=200X6=200X6=200X6=200X6=200X6=200X6=200X6=200X6=200X6=200X6=200X6=200X6=200X6=200X6=200X6=200X6=200X6=200X6=200X6=200X6=200X6=200X6=20
      Network Distance: 1 hop
Service Info: Host: WINDOWS7; OS: Windows; CPE: cpe:/o:microsoft:windows
MMAL Address: 00-12/185:31:// (Uracte 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
Service Info: Hosts: metasploitable.localdomain, irc.Metasploitable.LAN; OSs: Unix, Linux; CPE: cpe:/o:l
inux:linux_kernel
      Nmap scan report for 192.168.50.102
Host is up (0.000036s latency).
All 1000 scanned ports on 192.168.50.102 are in ignored states.
Not shown: 1000 closed tcp ports (conn-refused)
Too many fingerprints match this host to give specific OS details
Network Distance: 0 hops
      OS and Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .
Nmap done: 11 IP addresses (3 hosts up) scanned in 92.15 seconds
```

Possiamo notare che anche kali, con firewall attivo, non risponde a tali richieste