

Scan veloce della rete per trovare gli host up, partendo dall'ip della macchina attaccante

Con lo /24 per scansionare tutta la subnet

```
(alessio㉿kali)-[~] $ nmap -F -T4 192.168.50.100/24
Starting Nmap 7.93 ( https://nmap.org ) at 2023-02-09 07:30 CST
mass_dns: warning: Unable to determine any DNS servers. Reverse DNS is disabled. Try using --system-dns or specify
valid servers with --dns-servers
Nmap scan report for 192.168.50.100
Host is up (0.0014s latency).
All 100 scanned ports on 192.168.50.100 are in ignored states.
Not shown: 100 closed tcp ports (conn-refused)  (for greater effect)
Nmap scan report for 192.168.50.101
Host is up (0.0017s latency).
Not shown: 82 closed tcp ports (conn-refused)  (for greater effect)
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
513/tcp   open  login
514/tcp   open  shell
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
8009/tcp  open  ajp13
Nmap done: 256 IP addresses (2 hosts up) scanned in 14.11 seconds
OPTIONAL EXPLANATIONS AND EXAMPLES
```

Scan con TCP

```
(alessio㉿kali)-[~] $ sudo nmap -p 1-1024 -ST 192.168.50.101
Starting Nmap 7.93 ( https://nmap.org ) at 2023-02-09 07:51 CST
mass_dns: warning: Unable to determine any DNS servers. Reverse DNS is disabled. Try using --system-dns or specify
valid servers with --dns-servers
Nmap scan report for 192.168.50.101
Host is up (0.00041s latency).
Not shown: 1012 closed tcp ports (conn-refused)
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
MAC Address: 08:00:27:A4:A4:E6 (Oracle VirtualBox virtual NIC)
Nmap done: 1 IP address (1 host up) scanned in 0.23 seconds
OPTIONAL EXPLANATIONS AND EXAMPLES
```

Wireshark del TCP

Qui si nota che non ci sono risposte da parte di kali alla ack di meta

Scansione con -A

```
(alessio㉿kali)-[~]
$ sudo nmap -p 1-1024 -A 192.168.50.101
[sudo] password for alessio:
Starting Nmap 7.93 ( https://nmap.org ) at 2023-02-09 08:10 CST
mass_dns: warning: Unable to determine any DNS servers. Reverse DNS is disabled
valid servers with --dns-servers
Nmap scan report for 192.168.50.101
Host is up (0.00051s latency).
Not shown: 1012 closed tcp ports (reset)
PORT      STATE SERVICE      VERSION
21/tcp    open  ftp          vsftpd 2.3.4
|_ftp-anon: Anonymous FTP login allowed (FTP code 230)
| ftp-syst:
|_ STAT:
|   FTP server status:
|     Connected to 192.168.50.100
|     Win-Logged in as ftp
|     TYPE: ASCII
|     No session bandwidth limit
|     Session timeout in seconds is 300
|     Control connection is plain text
|     Data connections will be plain text
|     vsFTPD 2.3.4 - secure, fast, stable
|_End of status
22/tcp    open  ssh          OpenSSH 4.7p1 Debian-8ubuntu1 (protocol 2.0)
| ssh-hostkey:
|   1024 600fcfe1c05f6a74d69024fac4d56ccd (DSA)
|   2048 5656240f211dde72bae61b1243de8f3 (RSA)
23/tcp    open  telnet        Linux telnetd
25/tcp    open  smtp         Postfix smtpd
|_smtp-commands: metasploitable.localdomain, PIPELINING, SIZE 10240000, VRFY, E
8BITMIME, DSN
53/tcp    open  domain       ISC BIND 9.4.2
| dns-nsid:
|_ bind.version: 9.4.2
80/tcp    open  http         Apache httpd 2.2.8 ((Ubuntu) DAV/2)
|_http-title: Metasploitable2 - Linux
|_http-server-header: Apache/2.2.8 (Ubuntu) DAV/2
111/tcp   open  rpcbind     2 (RPC #100000)
```

```

111/tcp open  rpcbind    2 (RPC #100000)
|_ rpcinfo:
|   program version port/proto service
|   100000  2          111/tcp   rpcbind
|   100000  2          111/udp   rpcbind
|   100003  2,3,4     2049/tcp   nfs
|   100003  2,3,4     2049/udp   nfs
|   100005  1,2,3     33280/udp  mountd
|   100005  1,2,3     35048/tcp   mountd
|   100021  1,3,4     38717/udp   nlockmgr
|   100021  1,3,4     42323/tcp   nlockmgr
|   100024  1          41240/udp   status
|_ 100024  1          47940/tcp   status
139/tcp open  netbios-ssn  Samba smbd 3.X - 4.X (workgroup: WORKGROUP)
445/tcp open  netbios-ssn  Samba smbd 3.0.20-Debian (workgroup: WORKGROUP)
512/tcp open  exec      netkit-rsh rexecd
513/tcp open  login?   0 MSS=1460 SACK_PERM TStamp=307266 TSecr=4196483073 WS=64
514/tcp open  shell     Netkit rshd
MAC Address: 08:00:27:A4:A4:E6 (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
Service Info: Host: metasploitable.localdomain; OSs: Unix, Linux; CPE: cpe:/o:linux:linux_kernel
Win=64256 Len=0 TStamp=367266 TSecr=4196483076
Host script results:
| smb-security-mode:
|   account_used: <blank>
|   authentication_level: user
|   challenge_response: supported
|_ message_signing: disabled (dangerous, but default)
| smb-os-discovery:
|   OS: Unix (Samba 3.0.20-Debian)
|   Computer name: metasploitable
|   NetBIOS computer name:
|   Domain name: localdomain
|   FQDN: metasploitable.localdomain
|_ System time: 2023-02-09T10:11:02-05:00
|_ nbstat: NetBIOS name: METASPLOITABLE, NetBIOS user: <unknown>, NetBIOS MAC: 000000000000 (Xerox)
|_ clock-skew: mean: 3h29m59s, deviation: 3h32m07s, median: 59m59s
|_ smb2-time: Protocol negotiation failed (SMB2)

TRACEROUTE
HOP RTT      ADDRESS
1   0.51 ms  192.168.50.101

OS and Service detection performed. Please report any incorrect results at https://nmap.org/submit/. Nmap done: 1 IP address (1 host up) scanned in 76.24 seconds

```

Wireshark di -A

Source	Destination	Protocol	Length	Info
192.168.50.101	192.168.50.100	Rlogin	67	Data: \001
192.168.50.101	192.168.50.100	TCP	66	513 → 57622 [RST, ACK] Seq=2 Ack=1
192.168.50.100	192.168.50.101	TCP	54	57622 → 513 [RST] Seq=1 Win=0 Len=0
192.168.50.100	192.168.50.101	TCP	66	54186 → 513 [FIN, ACK] Seq=1 Ack=1
192.168.50.100	192.168.50.101	TCP	74	54192 → 513 [SYN] Seq=0 Win=64256
192.168.50.101	192.168.50.100	TCP	74	513 → 54192 [SYN, ACK] Seq=0 Ack=1
192.168.50.100	192.168.50.101	TCP	66	54192 → 513 [ACK] Seq=1 Ack=1
192.168.50.100	192.168.50.101	Rlogin	70	Data: \r\n\r\n
192.168.50.101	192.168.50.100	TCP	66	513 → 54192 [ACK] Seq=1 Ack=5
192.168.50.101	192.168.50.100	TCP	66	513 → 54192 [RST, ACK] Seq=1 Ack=1
192.168.50.100	192.168.50.101	TCP	74	54196 → 513 [SYN] Seq=0 Win=64256
192.168.50.101	192.168.50.100	TCP	74	513 → 54196 [SYN, ACK] Seq=0 Ack=1
192.168.50.100	192.168.50.101	TCP	66	54196 → 513 [ACK] Seq=1 Ack=1
192.168.50.100	192.168.50.101	Rlogin	84	Data: GET / HTTP/1.0\r\n\r\n
192.168.50.101	192.168.50.100	TCP	66	513 → 54196 [ACK] Seq=1 Ack=19
192.168.50.101	192.168.50.100	TCP	66	513 → 54196 [RST, ACK] Seq=1 Ack=1
192.168.50.100	192.168.50.101	TCP	74	54210 → 513 [SYN] Seq=0 Win=64256
PcsCompu_a4:a4:e6	Broadcast	ARP	60	Who has 192.168.50.1? Tell 192.168.50.1
192.168.50.101	192.168.50.100	TCP	74	513 → 54210 [SYN, ACK] Seq=0 Ack=1
192.168.50.100	192.168.50.101	TCP	66	54210 → 513 [ACK] Seq=1 Ack=1