

Si andranno a trovare informazioni utili sulla macchina Meta tramite strumenti di Host Scanning.

Nmap -sS esegue una scansione stealth molto veloce, in quanto non conclude il 3 way handshake ma va a fermarsi al primo passaggio, andando ad individuare le porte aperte di quell'Host.

Con -sV si andrà a visualizzare la versione di ogni servizio.

Con -T si indica la velocità con la quale si esegue il servizio.

```
[root@kali]# nmap -sS -sV -T4 192.168.32.102
Starting Nmap 7.95 ( https://nmap.org ) at 2025-12-05 16:34 EST
Nmap scan report for 192.168.32.102
Host is up (0.00018s latency).

Not shown: 977 closed tcp ports (reset)
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?      Netkit rshd
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  unknown      Apache Jserv (Protocol v1.3)

MAC Address: 08:00:27:4E:32:53 (PCS Systemtechnik/Oracle VirtualBox virtual NIC)
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 186.03 seconds
```

-sn mostra solo quali host sono attivi nel range che decidiamo, in questo caso si è andato ad indicare l'intera classe di rete.

-PE manda richieste ICMP, come un Ping.

```
[root@kali]# nmap -sn -PE 192.168.32.1/24
Starting Nmap 7.95 ( https://nmap.org ) at 2025-12-05 16:39 EST
Nmap scan report for 192.168.32.102
Host is up (0.0019s latency).

MAC Address: 08:00:27:4E:32:53 (PCS Systemtechnik/Oracle VirtualBox virtual NIC)
Nmap scan report for 192.168.32.100
Host is up.

Nmap done: 256 IP addresses (2 hosts up) scanned in 29.88 seconds
```

Netdiscover -r visualizza anche lui ogni Ip presente

```
Currently scanning: Finished! | Screen View: Unique Hosts
Home
1 Captured ARP Req/Rep packets, from 1 hosts. Total size: 60
IP At MAC Address Count Len MAC Vendor / Hostname
192.168.32.102 08:00:27:4e:32:53 1 60 PCS Systemtechnik GmbH

File System
└─(root㉿kali)-[~/home/kali]
  └─# netdiscover -r 192.168.32.1/24
```

nmap -A esegue un analisi molto più completa.

```
└─(root㉿kali)-[~/home/kali]
  └─# nmap -A 192.168.32.102 -p 1-1024
Starting Nmap 7.95 ( https://nmap.org ) at 2025-12-05 16:47 EST
Nmap scan report for 192.168.32.102
Host is up (0.0010s latency).
Not shown: 1012 closed tcp ports (reset)
PORT      STATE SERVICE VERSION
21/tcp    open  ftp      vsftpd 2.3.4
|_ftp-syst:
|_STAT:
| FTP server status:
|   Connected to 192.168.32.100
|   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
|_ftp-anon: Anonymous FTP login allowed (FTP code 230)
22/tcp    open  ssh      OpenSSH 4.7p1 Debian 8ubuntu1 (protocol 2.0)
| ssh-hostkey:
|   1024 60:0f:cf:e1:c0:5f:6a:74:d6:90:24:fa:c4:d5:6c:cd (DSA)
|   2048 56:56:24:0f:21:1d:de:a7:2b:ae:61:b1:24:3d:e8:f3 (RSA)
23/tcp    open  telnet   Linux telnetd
25/tcp    open  smtp     Postfix smtpd
|_smtp-commands: metasploitable.localdomain, PIPELINING, SIZE 10240000, VRFY, ETRN, STARTTLS, ENHANCEDSTATUSCODES, 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-server-header: Apache/2.2.8 (Ubuntu) DAV/2
|_http-title: Metasploitable2 - Linux
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     37793/tcp mountd
|   100005  1,2,3     56670/udp mountd
|   100021  1,3,4     41661/udp nlockmgr
|   100021  1,3,4     52996/tcp nlockmgr
|   100024  1          41455/tcp status
|   100024  1          57005/udp 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 rexec

513/tcp   open  login?
514/tcp   open  shell    Netkit rshd
MAC Address: 08:00:27:4E:32:53 (PCS Systemtechnik/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

Host script results:
|_smb2-time: Protocol negotiation failed (SMB2)
|_clock-skew: mean: 2h30m07s, deviation: 3h32m08s, median: 6s
| smb-security-mode:
|   account_used: guest
|   authentication_level: user
|   challenge_response: supported
|   message_signing: disabled (dangerous, but default)
|_nbstat: NetBIOS name: METASPOITABLE, NetBIOS user: <unknown>, NetBIOS MAC: <unknown> (unknown)
| smb-os-discovery:
|   OS: Unix (Samba 3.0.20-Debian)
|   Computer name: metasploitable
|   NetBIOS computer name:
|   Domain name: localdomain
|   FQDN: metasploitable.localdomain
|_ System time: 2025-12-05T16:48:27-05:00

TRACEROUTE
HOP RTT ADDRESS
1 1.00 ms 192.168.32.102

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 88.03 seconds
└─(root㉿kali)-[~/home/kali]
  └─#
```