```
Not shown: 1012 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
MAC Address: 08:00:27:E7:1B:ED (Oracle VirtualBox virtual NIC)
Nmap done: 1 IP address (1 host up) scanned in 0.48 seconds
 mmap -sT -p 0-1023 192.168.50.101
Starting Nmap 7.94SVN ( https://nmap.org ) at 2024-07-02 14:21 EDT
mass_dns: warning: Unable to determine any DNS servers. Reverse DNS is disabled. Try using --system-dn
s or specify valid servers with -- dns-servers
Nmap scan report for 192.168.50.101
Host is up (0.00049s 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:E7:1B:ED (Oracle VirtualBox virtual NIC)
Nmap done: 1 IP address (1 host up) scanned in 0.22 seconds
```

Starting Nmap 7.94SVN (https://nmap.org) at 2024-07-02 14:21 EDT

mass_dns: warning: Unable to determine any DNS servers. Reverse DNS is disabled. Try using --system-dn

nmap -sS -p 0-1023 192.168.50.101

Nmap scan report for 192.168.50.101 Host is up (0.00040s latency).

s or specify valid servers with --dns-servers

```
nmap -A -p 0-1023 192.168.50.101
Starting Nmap 7.94SVN ( https://nmap.org ) at 2024-07-02 14:22 EDT
mass_dns: warning: Unable to determine any DNS servers. Reverse DNS is disabled. Try using --system-dn
s or specify valid servers with --dns-servers
Stats: 0:00:06 elapsed; 0 hosts completed (1 up), 1 undergoing Service Scan
Service scan Timing: About 16.67% done; ETC: 14:23 (0:00:30 remaining)
Stats: 0:00:36 elapsed; 0 hosts completed (1 up), 1 undergoing Service Scan
Service scan Timing: About 58.33% done; ETC: 14:23 (0:00:26 remaining)
Stats: 0:00:37 elapsed; 0 hosts completed (1 up), 1 undergoing Service Scan
Service scan Timing: About 66.67% done; ETC: 14:23 (0:00:19 remaining)
Stats: 0:01:37 elapsed; 0 hosts completed (1 up), 1 undergoing Service Scan
Service scan Timing: About 66.67% done; ETC: 14:25 (0:00:49 remaining)
Stats: 0:03:10 elapsed; 0 hosts completed (1 up), 1 undergoing Script Scan
NSE Timing: About 99.58% done; ETC: 14:26 (0:00:00 remaining)
Stats: 0:03:27 elapsed; 0 hosts completed (1 up), 1 undergoing Script Scan
NSE Timing: About 99.76% done; ETC: 14:26 (0:00:00 remaining)
Nmap scan report for 192.168.50.101
Host is up (0.00061s 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:
 FTP server status:
      Connected to 192.168.50.100
      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
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?
25/tcp open smtp?
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-title: Metasploitable2 - Linux
 _http-server-header: Apache/2.2.8 (Ubuntu) DAV/2
111/tcp open rpcbind 2 (RPC #100000)
 rpcinfo:
   program version port/proto service
   100000 2
                       111/tcp rocbind
   100000 2
                       111/udp rpcbind
   100003 2.3.4
                      2049/tcp nfs
   100003 2,3,4
                      2049/udp nfs
   100005 1,2,3
                     44636/udp mountd
   100005 1,2,3
                     59761/tcp mountd
                     52110/tcp nlockmgr
   100021 1,3,4
                     53097/udp nlockmgr
   100024 1
                      39804/tcp status
   100024 1
39/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?
513/tcp open login?
514/tcp open shell?
MAC Address: 08:00:27:E7:1B:ED (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: OSs: Unix, Linux; CPE: cpe:/o:linux:linux_kernel
Host script results:
nbstat: NetBIOS name: METASPLOITABLE, NetBIOS user: <unknown>, NetBIOS MAC: <unknown> (unknown)
```

```
|_nbstat: NetBIOS name: METASPLOITABLE, NetBIOS user: <unknown>, NetBIOS MAC: <unknown> (unknown)
| smb-security-mode:
| account_used: guest
| authentication_level: user
| challenge_response: supported
|_ message_signing: disabled (dangerous, but default)
| smb-os-discovery:
```

NetBIOS computer name: Domain name: localdomain FQDN: metasploitable.localdomain

|_ System time: 2024-07-02T14:25:37-04:00
|_clock-skew: mean: 1h59m59s, deviation: 2h49m42s, median: 0s
|_smb2-time: Protocol negotiation failed (SMB2)

HOP RTT ADDRESS 1 0.61 ms 192.168.50.101

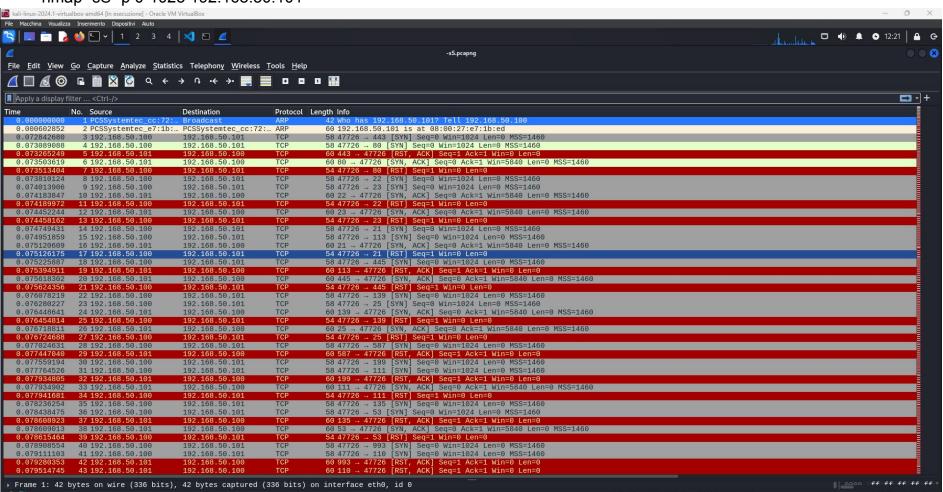
TRACEROUTE

Host script results:

OS: Unix (Samba 3.0.20-Debian)
Computer name: metasploitable

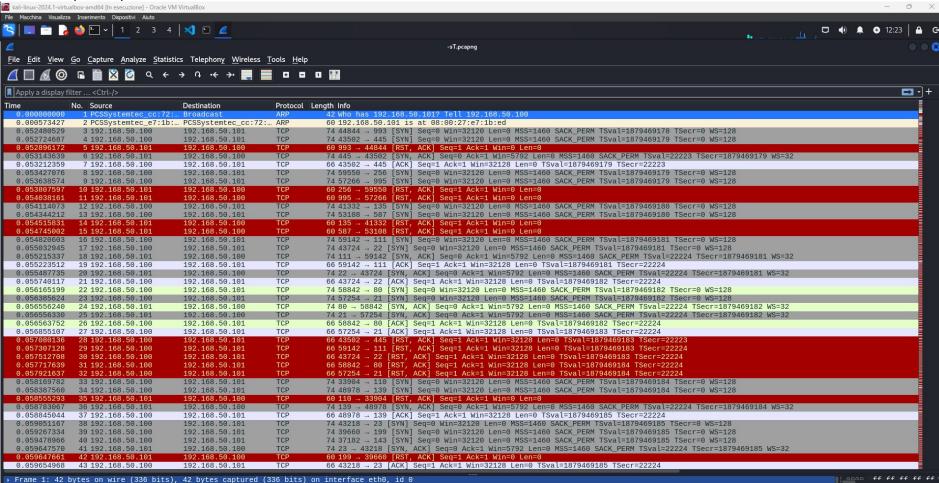
OS and Service detection performed. Please report any incorrect results at https://nmap.org/submit/ . Nmap done: 1 IP address (1 host up) scanned in 270.16 seconds

nmap -sS -p 0-1023 192.168.50.101



nmap -sT -p 0-1023 192.168.50.101

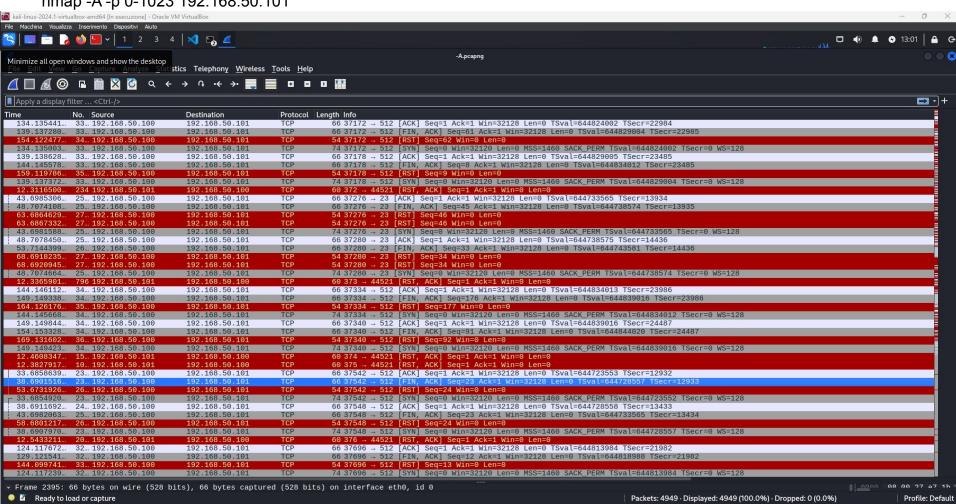
sT.pcapng



Profile: Default

Packets: 2077 · Displayed: 2077 (100.0%)

nmap -A -p 0-1023 192.168.50.101



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Differenze tra Scansioni Nmap -sS e -sT

Scansione -sS (TCP SYN scan)

1. Protocollo Utilizzato:

- Viene utilizzato il protocollo TCP con il flag SYN.
- Non completa la connessione TCP; invia solo pacchetti SYN e attende le risposte SYN/ACK o RST.

2. Risposte Rilevate:

- La maggior parte delle risposte sono pacchetti RST (Reset) o SYN/ACK.
- Questo indica che la scansione è più furtiva poiché non completa la stretta di mano TCP.

3. Tempo di Esecuzione:

Generalmente più veloce rispetto alla scansione -sT poiché non richiede la completa instaurazione di una connessione.

4. Rilevabilità:

Meno rilevabile dai firewall e dai sistemi di rilevamento delle intrusioni (IDS) rispetto alla scansione -sT.

Scansione -sT (TCP Connect scan)

1. Protocollo Utilizzato:

- Viene utilizzato il protocollo TCP con la connessione completa.
- Completa la connessione TCP tramite la stretta di mano a tre vie (SYN, SYN/ACK, ACK).

2. Risposte Rilevate:

- Comprende un mix di pacchetti SYN, ACK, e RST.
- Questo indica che ogni porta viene completamente aperta e chiusa, completando il processo di connessione.

3. Tempo di Esecuzione:

- Può essere più lento rispetto alla scansione -sS poiché richiede la completa instaurazione e chiusura della connessione TCP.
- 4. Rilevabilità:
 - Più rilevabile dai firewall e dai sistemi di rilevamento delle intrusioni (IDS) rispetto alla scansione -sS perché completa la connessione.

Report Dettagliato

Comandi Utilizzati

- Scansione -sS: nmap -sS [target]
- Scansione -sT: nmap -sT [target]

Analisi dei Pacchetti

Scansione -sS

- Pacchetti TCP SYN: Vengono inviati pacchetti TCP con il flag SYN.
- Risposte SYN/ACK: Se la porta è aperta, il target risponde con SYN/ACK.
- Risposte RST: Se la porta è chiusa, il target risponde con RST.

Scansione -sT

- Pacchetti TCP SYN: Vengono inviati pacchetti TCP con il flag SYN.
- Completamento della Connessione: Se la porta è aperta, il target risponde con SYN/ACK e il client risponde con ACK.
- **Risposte RST**: Se la porta è chiusa, il target risponde con RST.