

Nmap Scan

Nmap (port scanner) è un tool essenziale per gli ethical hacker. Viene usato per scoprire i “host” e “services” sul computer network, inviando i pacchetti e analizzando le risposte. Nmap ha tante opzioni che possiamo controllare inviando al terminal “nmap” o “nmap –help” per i dettagli. Profonditi possiamo leggere anche il manual del nmap scrivendo “man nmap”.

Obbiettivo di oggi:

1. Scansione TCP sulle porte well-known
2. Scansione SYN sulle porte well-known
3. Scansione Aggressiva sulle porte well-known

Tools: VM Kali Linux (Wireshark Nmap), Metasploitable

Apriamo le 2 Virtual machines, kali e metasploitable, sul Kali apriamo il terminal e scriviamo “wireshark” per aprire il Wireshark e iniziamo a catturare i pacchetti. Apriamo il nuovo terminal e scriviamo “nmap -sT 192.168.50.101” (-sT = TCP connect scan) per scansionare in default le 1000 port più usate.

Per analizzare meglio il risultato applicheremo il filtro sul Wireshark “tcp.port == 80”

Il risultato:

Si può vedere il three-way handshake tra kali e meta, con la finale del reset [RST], quindi questa port è aperta.

The image shows a Wireshark packet capture window with a filter set to 'tcp.port == 80'. It displays several TCP packets between 192.168.50.100 and 192.168.50.101. A red arrow points from the packet list to a terminal window showing the output of an Nmap scan.

Wireshark Packet List:

No.	Time	Source	Destination	Protocol	Length	Info
3	29.410026855	192.168.50.100	192.168.50.101	TCP	74	36504 → 80 [SYN] Seq=0 Win=64240 Len=0 MSS=1460 SACK_PERM=1 TSval=3367366396 TSecr=0 WS=128
5	29.410360040	192.168.50.101	192.168.50.100	TCP	74	80 → 36504 [SYN, ACK] Seq=0 Ack=1 Win=5792 Len=0 MSS=1460 SACK_PERM=1 TSval=1237633 TSecr=3367366396 WS=32
7	29.410378612	192.168.50.100	192.168.50.101	TCP	66	36504 → 80 [ACK] Seq=1 Ack=1 Win=64256 Len=0 TSval=3367366397 TSecr=1237633
8	29.410448308	192.168.50.100	192.168.50.101	TCP	66	36504 → 80 [RST, ACK] Seq=1 Ack=1 Win=64256 Len=0 TSval=3367366397 TSecr=1237633
50	29.411228331	192.168.50.100	192.168.50.101	TCP	74	36514 → 80 [SYN] Seq=0 Win=64240 Len=0 MSS=1460 SACK_PERM=1 TSval=3367366398 TSecr=0 WS=128
83	29.411381195	192.168.50.101	192.168.50.100	TCP	74	80 → 36514 [SYN, ACK] Seq=0 Ack=1 Win=5792 Len=0 MSS=1460 SACK_PERM=1 TSval=1237634 TSecr=3367366398 WS=32
87	29.411400007	192.168.50.100	192.168.50.101	TCP	66	36514 → 80 [ACK] Seq=1 Ack=1 Win=64256 Len=0 TSval=3367366398 TSecr=1237634
127	29.411638202	192.168.50.100	192.168.50.101	TCP	66	36514 → 80 [RST, ACK] Seq=1 Ack=1 Win=64256 Len=0 TSval=3367366398 TSecr=1237634

Nmap Scan Output:

```
filip@KaliLinux: ~  
$ nmap -sT 192.168.50.101  
Starting Nmap 7.93 ( https://nmap.org ) at 2022-11-10 08:24 EST  
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 (0.00011s latency).  
Not shown: 977 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  
1099/tcp  open  rmiregistry  
1524/tcp  open  ingreslock  
2049/tcp  open  nfs  
2121/tcp  open  cproxy-ftp  
3306/tcp  open  mysql  
5432/tcp  open  postgresql  
5900/tcp  open  vnc  
6080/tcp  open  X11  
6667/tcp  open  irc  
8009/tcp  open  ajp13  
8180/tcp  open  unknown  
Nmap done: 1 IP address (1 host up) scanned in 0.04 seconds
```

Se invece filtriamo il port 443, possiamo vedere che la Three-way handshake non c'è perché la Metasploitable ha inviato subito [RST], infatti sul terminal la port 443 non è presente.

The image shows a Wireshark packet capture with a filter set to `tcp.port == 443`. The packet list shows three packets:

No.	Time	Source	Destination	Protocol	Length	Info
4	29.410056410	192.168.50.100	192.168.50.101	TCP	74	55996 → 443 [SYN] Seq=0 Win=64240 Len=0 MSS=1460
6	29.410360480	192.168.50.101	192.168.50.100	TCP	60	443 → 55996 [RST, ACK] Seq=1 Ack=1 Win=0 Len=0
10	29.410643463	192.168.50.100	192.168.50.101	TCP	74	55998 → 443 [SYN] Seq=0 Win=64240 Len=0 MSS=1460
20	29.410914659	192.168.50.101	192.168.50.100	TCP	60	443 → 55998 [RST, ACK] Seq=1 Ack=1 Win=0 Len=0

On the right, the 'Ports' pane shows a list of open ports on the target system:

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
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	irc
8009/tcp	open	ajp13
8180/tcp	open	unknown

Il prossimo scan da fare è il SYN scan, con il comando “`sudo nmap -sS 192.168.50.101`”.

A differenza di prima possiamo vedere che Kali inizia la TCP three-way handshake, visto che la port è aperta, Metasploitable risponde con SYN-ACK, però questa volta Kali non risponde con ACK perché sa già che la port è aperta visto che ha avuto la risposta SYN-ACK e quindi risponde con RST per non creare la connessione.

The image shows a terminal window with the following output:

```

(filip@KaliLinux)-[~]
$ sudo nmap -sS 192.168.50.101
[sudo] password for filip:
Starting Nmap 7.93 ( https://nmap.org ) at 2022-11-10 08:54 EST
mass_dns: warning: Unable to determine any DNS servers. Reverse DNS is disabled. Try using --system-dns or specify valid s
ervers with --dns-servers
Nmap scan report for 192.168.50.101
Host is up (0.00011s latency).
Not shown: 977 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
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  irc
8009/tcp  open  ajp13
8180/tcp  open  unknown
MAC Address: 08:00:27:3F:86:35 (Oracle VirtualBox virtual NIC)

Nmap done: 1 IP address (1 host up) scanned in 0.20 seconds
(filip@KaliLinux)-[~]
  
```

Se filtriamo di nuovo la port 443, possiamo vedere ancora una volta che Metasploitable ha chiuso subito la connessione con la flag [RST]

tcp.port == 443

No.	Time	Source	Destination	Protocol	Length	Info
32	0.084925690	192.168.50.100	192.168.50.101	TCP	58	39174 → 443
52	0.085249543	192.168.50.101	192.168.50.100	TCP	60	443 → 39174


```
(filip@KaLinux)-[~]
$ sudo nmap -sS 192.168.50.101
[sudo] password for filip:
Starting Nmap 7.93 ( https://nmap.org ) at 2022-11-10 08:54 EST
mass_dns: warning: Unable to determine any DNS servers. Reverse DNS is disabled.
ervers with --dns-servers
Nmap scan report for 192.168.50.101
Host is up (0.00011s latency).
Not shown: 977 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
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  irc
8009/tcp  open  ajp13
8180/tcp  open  unknown
MAC Address: 08:00:27:3F:86:35 (Oracle VirtualBox virtual NIC)

Nmap done: 1 IP address (1 host up) scanned in 0.20 seconds
(filip@KaLinux)-[~]
```

Ultimo scan che faremmo è Aggressive scan, ovvero lo scan che ci fa ottenere piu informazioni

quindi il comando che useremo sarà “sudo nmap -A 192.168.50.101”

Qui a differenza di prima possiamo vedere anche la versione del SERVICE

```
filip@KaLinux: ~  
File Actions Edit View Help  
filip@KaLinux: ~ x filip@KaLinux: ~ x filip@KaLinux: ~ x  
(filip@KaLinux)-[~]  
$ nmap -A 192.168.50.101  
Starting Nmap 7.93 ( https://nmap.org ) at 2022-11-10 09:14 EST  
mass_dns: warning: Unable to determine any DNS servers. Reverse DNS is disabled  
Nmap scan report for 192.168.50.101  
Host is up (0.00013s latency).  
Not shown: 977 closed tcp ports (conn-refused)  
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  
|_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 5656240f211ddea72bae61b1243de8f3 (RSA)  
23/tcp    open  telnet   Linux telnetd  
25/tcp    open  smtp     Postfix smtpd  
|_smtp-commands: metasploitable.localdomain, PIPELINING, SIZE 10240000,  
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
```

anche il Sistema Operativo

```
Host script results:  
|_ smb-os-discovery:  
|_ OS: Unix (Samba 3.0.20-Debian)  
|_ Computer name: metasploitable  
|_ NetBIOS computer name:  
|_ Domain name: localdomain  
|_ FQDN: metasploitable.localdomain  
|_ System time: 2022-11-10T09:15:00-05:00  
|_ smb2-time: Protocol negotiation failed (SMB2)  
|_ nbstat: NetBIOS name: METASPLOITABLE, NetBIOS user: <unknown>, NetBIOS MAC: 000000000000 (Xerox)  
|_ clock-skew: mean: 1h40m00s, deviation: 2h53m12s, median: 0s  
|_ smb-security-mode:  
|_ account_used: guest  
|_ authentication_level: user  
|_ challenge_response: supported  
|_ message_signing: disabled (dangerous, but default)  
  
Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .  
Nmap done: 1 IP address (1 host up) scanned in 126.25 seconds
```


No.

▼ Time

Source

Destination

Protocol

Length

Info

2156 4.064013535

192.168.50.101

192.168.50.100

TCP

74

[TCP Retransmission] 80 → 44486 [SYN, ACK] Seq=0 Ack=1 Win=5792 Len=0 MSS=1460 SACK_PERM=1 TSval=1537839 TSecr=3370365685 WS=

2157 4.064028982

192.168.50.100

192.168.50.101

TCP

66

[TCP Dup ACK 2081#1] 44486 → 80 [ACK] Seq=1 Ack=1 Win=64256 Len=0 TSval=3370369679 TSecr=1537439

2158 4.064547846

PcsCompu_3f:86:35

Broadcast

ARP

60

Who has 192.168.50.1? Tell 192.168.50.101

2159 5.085354106

PcsCompu_3f:86:35

Broadcast

ARP

60

Who has 192.168.50.1? Tell 192.168.50.101

2160 6.080103926

192.168.50.100

192.168.50.101

SMTP

72

C: EHLO

2161 6.080138051

192.168.50.100

192.168.50.101

TELNET

70

Telnet Data ...

2162 6.080145626

192.168.50.100

192.168.50.101

DNS

98

Standard query 0x0006 TXT version.bind

2163 6.080151532

192.168.50.100

192.168.50.101

HTTP

84

GET / HTTP/1.0

2164 6.080157799

192.168.50.100

192.168.50.101

Portmap

110

V104316 proc-0 Call (Reply In 2192)

2165 6.080167994

192.168.50.100

192.168.50.101

SMB

234

Negotiate Protocol Request

2166 6.080175267

192.168.50.100

192.168.50.101

NBSS

84

NBSS Continuation Message

2167 6.080181677

192.168.50.100

192.168.50.101

EXEC

98

Client -> Server data

2168 6.080187633

192.168.50.100

192.168.50.101

Rlogin

98

Start Handshake

2169 6.080198859

192.168.50.100

192.168.50.101

RSH

84

Client -> Server data

2170 6.080207799

192.168.50.100

192.168.50.101

RMI

73

JRMI, Version: 2, StreamProtocol

2171 6.080213779

192.168.50.100

192.168.50.101

Portmap

110

V104316 proc-0 Call (Reply In 2201)

2172 6.080221350

192.168.50.100

192.168.50.101

TCP

70

51104 → 2121 [PSH, ACK] Seq=1 Ack=1 Win=64256 Len=4 TSval=3370371695 TSecr=1537439

2173 6.080228860

192.168.50.100

192.168.50.101

TCP

70

44466 → 3306 [PSH, ACK] Seq=1 Ack=1 Win=64256 Len=4 TSval=3370371695 TSecr=1537439 [TCP segment of a reassembled PDU]

2174 6.080239105

192.168.50.100

192.168.50.101

TCP

70

33560 → 5432 [PSH, ACK] Seq=1 Ack=1 Win=64256 Len=4 TSval=3370371695 TSecr=1537439 [TCP segment of a reassembled PDU]

2175 6.080262031

192.168.50.100

192.168.50.101

TCP

88

51002 → 6000 [PSH, ACK] Seq=1 Ack=1 Win=64256 Len=22 TSval=3370371695 TSecr=1537439 [TCP segment of a reassembled PDU]

2176 6.080272644

192.168.50.100

192.168.50.101

TCP

84

48058 → 8009 [PSH, ACK] Seq=1 Ack=1 Win=64256 Len=18 TSval=3370371695 TSecr=1537440 [TCP segment of a reassembled PDU]

2177 6.080284100

192.168.50.100

192.168.50.101

TCP

70

44466 → 3306 [PSH, ACK] Seq=1 Ack=1 Win=64256 Len=4 TSval=3370371695 TSecr=1537439 [TCP segment of a reassembled PDU]

Source Port: 54858

Destination Port: 23

[Stream index: 1004]

[Conversation completeness: Complete, WITH_DATA (31)]

[TCP Segment Len: 4]

Sequence Number: 1 (relative sequence number)

Sequence Number (raw): 181702157

[Next Sequence Number: 5 (relative sequence number)]

Acknowledgment Number: 1 (relative ack number)

Acknowledgment number (raw): 219724086

1000 4000 6000 8000 10000 12000 14000 16000 18000 20000 22000 24000 26000 28000 30000 32000 34000 36000 38000 40000 42000 44000 46000 48000 50000 52000 54000 56000 58000 60000 62000 64000 66000 68000 70000 72000 74000 76000 78000 80000 82000 84000 86000 88000 90000 92000 94000 96000 98000 100000 102000 104000 106000 108000 110000 112000 114000 116000 118000 120000 122000 124000 126000 128000 130000 132000 134000 136000 138000 140000 142000 144000 146000 148000 150000 152000 154000 156000 158000 160000 162000 164000 166000 168000 170000 172000 174000 176000 178000 180000 182000 184000 186000 188000 190000 192000 194000 196000 198000 200000 202000 204000 206000 208000 210000 212000 214000 216000 218000 220000 222000 224000 226000 228000 230000 232000 234000 236000 238000 240000 242000 244000 246000 248000 250000 252000 254000 256000 258000 260000 262000 264000 266000 268000 270000 272000 274000 276000 278000 280000 282000 284000 286000 288000 290000 292000 294000 296000 298000 300000 302000 304000 306000 308000 310000 312000 314000 316000 318000 320000 322000 324000 326000 328000 330000 332000 334000 336000 338000 340000 342000 344000 346000 348000 350000 352000 354000 356000 358000 360000 362000 364000 366000 368000 370000 372000 374000 376000 378000 380000 382000 384000 386000 388000 390000 392000 394000 396000 398000 400000 402000 404000 406000 408000 410000 412000 414000 416000 418000 420000 422000 424000 426000 428000 430000 432000 434000 436000 438000 440000 442000 444000 446000 448000 450000 452000 454000 456000 458000 460000 462000 464000 466000 468000 470000 472000 474000 476000 478000 480000 482000 484000 486000 488000 490000 492000 494000 496000 498000 500000 502000 504000 506000 508000 510000 512000 514000 516000 518000 520000 522000 524000 526000 528000 530000 532000 534000 536000 538000 540000 542000 544000 546000 548000 550000 552000 554000 556000 558000 560000 562000 564000 566000 568000 570000 572000 574000 576000 578000 580000 582000 584000 586000 588000 590000 592000 594000 596000 598000 600000 602000 604000 606000 608000 610000 612000 614000 616000 618000 620000 622000 624000 626000 628000 630000 632000 634000 636000 638000 640000 642000 644000 646000 648000 650000 652000 654000 656000 658000 660000 662000 664000 666000 668000 670000 672000 674000 676000 678000 680000 682000 684000 686000 688000 690000 692000 694000 696000 698000 700000 702000 704000 706000 708000 710000 712000 714000 716000 718000 720000 722000 724000 726000 728000 730000 732000 734000 736000 738000 740000 742000 744000 746000 748000 750000 752000 754000 756000 758000 760000 762000 764000 766000 768000 770000 772000 774000 776000 778000 780000 782000 784000 786000 788000 790000 792000 794000 796000 798000 800000 802000 804000 806000 808000 810000 812000 814000 816000 818000 820000 822000 824000 826000 828000 830000 832000 834000 836000 838000 840000 842000 844000 846000 848000 850000 852000 854000 856000 858000 860000 862000 864000 866000 868000 870000 872000 874000 876000 878000 880000 882000 884000 886000 888000 890000 892000 894000 896000 898000 900000 902000 904000 906000 908000 910000 912000 914000 916000 918000 920000 922000 924000 926000 928000 930000 932000 934000 936000 938000 940000 942000 944000 946000 948000 950000 952000 954000 956000 958000 960000 962000 964000 966000 968000 970000 972000 974000 976000 978000 980000 982000 984000 986000 988000 990000 992000 994000 996000 998000 1000000 1002000 1004000 1006000 1008000 1010000 1012000 1014000 1016000 1018000 1020000 1022000 1024000 1026000 1028000 1030000 1032000 1034000 1036000 1038000 1040000 1042000 1044000 1046000 1048000 1050000 1052000 1054000 1056000 1058000 1060000 1062000 1064000 1066000 1068000 1070000 1072000 1074000 1076000 1078000 1080000 1082000 1084000 1086000 1088000 1090000 1092000 1094000 1096000 1098000 1100000 1102000 1104000 1106000 1108000 1110000 1112000 1114000 1116000 1118000 1120000 1122000 1124000 1126000 1128000 1130000 1132000 1134000 1136000 1138000 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