Relazione Esplorazione di Nmap

Nella seguente immagine e primo passaggio utilizzo il comando specifico per scansionare la rete e nello specifico, come illustrato di seguito per visualizzare il manuale di Nmap:

• [analyst@secOps ~]\$ man nmap

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NMAP(1)

NAMP (1)

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NAMP - Network exploration tool and security / port scanner

NAMP(1)

NAMP

SYNOPSIS

NAMP (Scan Type...) [Options] (target specification)

DESCRIPTION

Namp ("Network Mapper") is an open source tool for network exploration and security auditing. It was designed to rapidly scan large networks, although it works fine against single hosts. Namp uses raw IP packets in novel ways to determine what hosts are available on the network, what services (application name and version) those hosts are offering, what services (application name and version) those hosts are offering, what services (application name and version) those hosts are offering, what services (application name and version) those hosts are offering occupity systems and network administrators find it useful for routine tasks such as network inventory, managing service upgrade schedules, and monitoring host or service uptime.

The output from Nmap is a list of scanned targets, with supplemental information on each depending on the options used. Key among that information is the "interesting ports table". That table lists the port number and protocol, service name, and state. The state is either open, filtered, closed, or unfiltered. Open means that an application on the target machine is listening for connections/packets on that post the port of the port so that Nmap cannot tell whether it is open or closed. Closed ports have no application listening on them, though they could open up at any time. Ports are classified as unfiltered when they are responsive to Nmap's probes, but Nmap cannot determine whether they are open or closed. Nmap reports the state continued software version details when version detection has been requested. When an IP protocol scan is requested (-8d), Nmap provides information on supported IP protocols rather than listening ports.

In addition to the interesting ports table. Nmap can provide further information on targets, including reverse DNS names, operating system guesses, device types
```

Nella seguente immagine, muovendomi con la freccia su e giù posso avanzare sulla pagina del manuale o tornare indietro per leggere tutte le varie spiegazioni dei comandi con **nmap**:

```
typical Nmap scan is shown in Example 1. The only Nmap arguments
in this example are -\mathbf{A}, to enable OS and version detection, script
scanning, and traceroute; 	extsf{-T4} for faster execution; and then the
hostname.
Example 1. A representative Nmap scan
     # nmap -A -T4 scanme.nmap.org
     Nmap scan report for scanne.nmap.org (74.207.244.221)
     Host is up (0.029s latency).
rDNS record for 74.207.244.221: li86-221.members.linode.com
     Not shown: 995 closed ports
     Not shown: 995 closed ports

PORT STATE SERVICE VERSION

22/tcp open ssh OpenSSH 5.3p1 Debian 3ubuntu7 (protocol 2.0 | ssh-hostkey: 1024 8d:60:f1:7c:ca:b7:3d:0a:d6:67:54:9d:69:d9:b9:dd (DSA) | _2048 79:f8:09:ac:d4:e2:32:42:10:49:d3:20:82:85:ec (RSA)
                                              OpenSSH 5.3p1 Debian 3ubuntu7 (protocol 2.0)
               open
                                              Apache httpd 2.2.14 ((Ubuntu))
     80/tcp
                            http
     |_http-title: Go ahead and ScanMe!
     646/tcp filtered ldp
1720/tcp filtered H.323/Q.931
```

Nella seguente immagine e procedimento illustrato, utilizzo il comando specifico per scansionare il localhost della macchina, come illustrato di seguito:

• nmap -A -T4 localhost

```
[analyst@secOps ~]$ nmap -A -T4 localhost
Starting Nmap 7.70 ( https://nmap.org ) at 2024-10-25 06:23 EDT
Nmap scan report for localhost (127.0.0.1)
Host is up (0.000034s latency).
Other addresses for localhost (not scanned): ::1
Not shown: 998 closed ports
PORT STATE SERVICE VERSION
21/tcp open ftp vsftpd 2.0.8 or later
| ftp-anon: Anonymous FTP login allowed (FTP code 230)
|_-rw-r--r-- 1 0 0 0 Mar 26 2018 ftp_test
```

```
Nmap scan report for 127.0.1.92
Host is up (0.00011s latency).
Not shown: 998 closed ports
      STATE SERVICE VERSION
PORT
21/tcp open ftp
                    vsftpd 2.0.8 or later
 ftp-anon: Anonymous FTP login allowed (FTP code 230)
|_-rw-r--r--
                1 0
                           0
                                           0 Mar 26 2018 ftp_test
 ftp-syst:
   STAT:
 FTP server status:
      Connected to 127.0.0.1
       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
       At session startup, client count was 11
       vsFTPd 3.0.3 - secure, fast, stable
 _End of status
22/tcp open ssh OpenSSH 7.7 (protocol 2.0)
```

Nella seguente immagine e illustrazione utilizzo il comando specifico per vedere il rapporto della scansione di rete, fatta con il comando **nmap**:

```
[analyst@secOps ~]$ nmap -A -T4 scanme.nmap.org
Starting Nmap 7.70 ( https://nmap.org ) at 2024-10-25 06:38 EDT
Nmap scan report for scanme.nmap.org (45.33.32.156)
Host is up (0.18s latency).
Other addresses for scanme.nmap.org (not scanned): 2600:3c01::f03c:91ff:fe18:bb2f
Not shown: 995 closed ports
         STATE SERVICE
PORT
                           VERSION
22/tcp
                           OpenSSH 6.6.1p1 Ubuntu 2ubuntu2.13 (Ubuntu Linux; protocol 2.0)
         open ssh
ssh-hostkey:
   1024 ac: 00: a0: 1a: 82: ff: cc: 55: 99: dc: 67: 2b: 34: 97: 6b: 75 (DSA)
    2048 20:3d:2d:44:62:2a:b0:5a:9d:b5:b3:05:14:c2:a6:b2 (RSA)
    256 96:02:bb:5e:57:54:1c:4e:45:2f:56:4c:4a:24:b2:57 (ECDSA)
  256 33: fa: 91: 0f:e0:e1: 7b: 1f: 6d: 05: a2: b0: f1: 54: 41: 56 (ED25519)
53/tcp
         open domain
                           dnsmasq 2.84
| dns-nsid:
  bind.version: dnsmasq-2.84
80/tcp
       open http
                         Apache httpd 2.4.7 ((Ubuntu))
|_http-server-header: Apache/2.4.7 (Ubuntu)
|_http-title: Go ahead and ScanMe!
9929/tcp open nping-echo Nping echo
31337/tcp open tcpwrapped
Service Info: OS: 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 21.39 seconds
```

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