# Nmap Cheatsheet

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This document shall contain everything I have learned so far about nmap. I must keep it up-to-date because I feel a bit lost in this cybersecurity journey to be frank.

### 1 Basic Nmap Commands

#### 1.1 Service Version Detection (-sV)

This is the Service Detection flag (yes;  $\neg sV$  is a single flag, not a combination of both s AND V), which will tell you the name and description of the identified services.

```
Service Version Detection
Starting Nmap 7.80 (https://nmap.org) at 2025-03-28 06:27 GMT
Nmap scan report for 10.10.171.202
Not shown: 994 closed ports
        open echo
        open tcpwrapped
13/tcp open daytime?
17/tcp open qotd?
                         OpenSSH 9.6p1 Ubuntu 3ubuntu13.5 (Ubuntu
22/tcp open ssh
                         lighttpd 1.4.74
8008/tcp open http
2 services unrecognized despite returning data. If you know the
   service/version, please submit the following fingerprints at
   https://nmap.org/cgi-bin/submit.cgi?new-service :
[Detailed fingerprint data omitted for brevity]
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 14.00 seconds
```

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#### 1.2 Default Script Scan (-sC)

I sometimes use this one instead of -sV because it runs  $default\ scripts^1$ , which can give out additional information depending on the services running on the target. You can see a comparison in outputs between the two flags in the two boxes below.

```
Default Script Scan
Nmap scan report for 10.10.219.233 Host is up (0.00024s latency).
Not shown: 65526 closed ports
25/tcp open smtp
| Not valid before: 2021-08-10T12:10:58
|_Not valid after: 2031-08-08T12:10:58
  bind.version: 9.18.28-1~deb12u2-Debian
110/tcp open pop3
|_pop3-capabilities: PIPELINING SASL UIDL STLS AUTH-RESP-CODE RESP-CODES CAPA TOP
111/tcp open rpcbind
    100000 2,3,4 111/tcp rpcbind
100000 2,3,4 111/udp rpcbind
100000 3,4 111/tcp6 rpcbind
143/tcp open
|_imap-capabilities: more LOGIN-REFERRALS have IDLE post-login STARTTLS listed
    ENABLE capabilities LOGINDISABLEDA0001 Pre-login SASL-IR OK ID LITERAL+
    IMAP4rev1
993/tcp open imaps
|_imap-capabilities: LOGIN-REFERRALS more IDLE capabilities OK post-login ENABLE
    listed have Pre-login SASL-IR AUTH=PLAINA0001 ID LITERAL+ IMAP4rev1
995/tcp open pop3s
|_pop3-capabilities: PIPELINING SASL(PLAIN) UIDL USER AUTH-RESP-CODE RESP-CODES
| Not valid before: 2021-08-10T12:10:58
```

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<sup>&</sup>lt;sup>1</sup>Default NSE Scripts, Nmap.org

#### Service Version Detection for Comparison

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