Medusa — Professional Cheat Sheet

One-page professional reference for **Medusa** — speedy, parallel, modular login brute-forcer. Commands, flags, examples, tuning, and OPSEC notes for red-team and pentest use.

1) At-a-glance

- **Tool:** Medusa parallel network login auditor (author: JoMo-Kun).
- **Primary uses:** Online password guessing against network services (SSH, FTP, RDP, SMB, HTTP auth, MSSQL, MySQL, POP3, IMAP, SMTP, and many others via modules).
- **Design:** Thread-based, module architecture (* . mod), flexible input (single entry, files, combo files).

2) Install / quick check

```
# Debian / Kali
sudo apt update && sudo apt install medusa

# From source
git clone https://github.com/jmk-foofus/medusa.git
cd medusa
./configure && make && sudo make install

# Quick help
medusa -h
```

3) Basic syntax

```
medusa [-h host|-H hostfile] [-u user|-U userfile] [-p pass|-P passfile] [-C
combofile] -M module [OPTIONS]
```

- - M selects the module (service) to test — **without** the . mod extension.

4) Core options (essentials)

• -h TEXT : target hostname or IP.

```
-H FILE : file containing target hosts (one per line).
```

- -u TEXT : single username.
- -U FILE : username file.
- -p TEXT : single password.
- -P FILE : password file.
- -C FILE : combo file (user:pass entries).
- -M TEXT : module/service to use (e.g., ssh , ftp , rdp).
- -n NUM : non-default TCP port number.
- -s : enable SSL/TLS (if module supports it).
- -g NUM: give up after trying to connect for NUM seconds (connect timeout, default 3).
- -r NUM: sleep NUM seconds between retry attempts (default 3).
- -R NUM: attempt NUM retries before giving up (total attempts = NUM + 1).
- -t NUM: total number of logins to test concurrently (threads for login attempts).
- -T NUM: total number of hosts to test concurrently (scale across hosts).
- -L : parallelize by assigning one username per thread (alternative threading model).
- -f : stop scanning host after first valid credential found.
- -F : stop audit after first valid credential found on any host.
- -0 FILE : append log info to FILE.
- -d : dump all known modules.
- -q : display module usage/help.
- -v NUM: verbosity (0–6).
- -w NUM: error debug level (0-10).
- -Z TEXT : resume scan from a saved map.

5) Module examples (common targets)

```
• ssh, ftp, telnet, smtp, pop3, imap, http, http_form, mssql, mysql, rdp,
  smb , vnc , postgres , oracle (support varies by build & version).
• Use medusa -d to list installed modules on your binary.
```

6) Practical examples

6.1 Single host, single username, password list (FTP)

```
medusa -h 192.168.1.50 -u alice -P /usr/share/wordlists/rockyou.txt -M ftp -t 6
-f
```

6.2 Multiple hosts, username list, password list (parallel)

```
medusa -H hosts.txt -U users.txt -P pass.txt -M ssh -T 10 -t 20 -F -O medusa.log
```

- - T 10 tests up to 10 hosts concurrently; -t 20 runs 20 login threads total.

6.3 Use non-default port and SSL

```
medusa -h target -u admin -P pass.txt -M http_form -n 8443 -s
```

6.4 Combo file (user:pass entries)

```
medusa -h 10.0.0.5 -C combos.txt -M smb -t 10
```

6.5 Resume a previous scan

```
medusa -h 10.0.0.0/24 -U users.txt -P pass.txt -M ftp -Z medusa.map
```

7) Tuning for effectiveness & stealth

- Threading: Lower [-t] and [-T] to reduce load/noise for targets with lockouts or IDS.
- **Retries/timeouts:** increase -g, -r, and -R for unstable networks; decrease for speed when reliable.
- Parallelization mode: use -L when you want one username per thread (helps with some services).
- Stop flags: -f / -F quickly reduce noise once a valid credential is discovered.
- **Module tuning:** use module _-m option(s) to pass module-specific parameters (e.g., target domain or extra flags) see module help with _-q .

8) Logging, output & reporting

- Use | -0 logfile | to append structured logs.
- Capture terminal output and -0 logs for evidence and reporting.
- Combine with tee and timestamped filenames for audit trails.

9) Troubleshooting & common pitfalls

- e extra checks: -e n/s/ns controls trial of no-password or username==password checks (where supported).
- **Module missing:** ensure your medusa build includes the module required; run medusa -d to inspect available modules.
- Lockouts & rate limits: slow down threads or add sleeps; coordinate with target owner.

• **False positives:** verify credentials manually after discovery; some services may accept partial auth or behave unusually.

10) OPSEC & legal (must read)

- Only use Medusa against systems you own or have explicit, written permission to test.
- Brute-force testing generates noisy logs and can trigger account lockouts or service disruption coordinate with stakeholders and defenders.
- Store discovered credentials securely and include them in reports with minimal exposure (redact in public artifacts).

11) Quick one-liners (copy-paste)

```
# Fast FTP check (stop at first success)
medusa -h 10.0.0.5 -u admin -P /path/rockyou.txt -M ftp -t 8 -f

# Multi-host SSH test with userlist + passlist
medusa -H hosts.txt -U users.txt -P pass.txt -M ssh -T 20 -t 40 -F -0
medusa_results.log

# Use combo file against SMB
medusa -h target -C combos.txt -M smb -t 10
```

12) Alternatives & when to use them

- Hydra: broader community examples and active maintenance; similar feature set.
- Ncrack: modern redesign focused on speed & parallelism (Nmap project).
- Custom scripts: use when specific authentication flows or rate controls are required.

This cheat sheet is intended for authorized penetration testing and defensive assessments only.