

Kali Linux Commands

1. Basic System Commands

ls: List files and directories in the current directory.

ls -l: List with detailed information.

ls -a: Show all files, including hidden files.

ls -la

cd: Change directory.

Example: `cd /home/user/Documents`

pwd: Print the current working directory.

mkdir: Create a new directory.

Example: `mkdir new_directory`

rmdir: Remove an empty directory.

rm: Remove files or directories.

rm -rf: delete anything forcefully

Example: `rm -rf file.txt`

For directories: `rm -rf directory_name`

touch - create empty file

cp: Copy files or directories.

Example: `cp file1.txt file2.txt`

mv: Move or rename files or directories.

Example: `mv oldname.txt newname.txt`

2. Network Commands

ifconfig: Display network interfaces and configuration (older command, replaced by `ip` in newer systems).

ip a: Display network interfaces and IP addresses.

arp -a - show arp table of the LAN

ip n - alternative for arp

route - show the routing deating for network

ip r - alternative for route

ping: Send ICMP echo requests to test network connectivity.

Example: `ping google.com`

fping: alternative for ping

netstat: Show network connections, routing tables, and interface statistics.

Example: `netstat -antp`

ss -pultn: alternative for netstat

netdiscover -r ip --> to discover live hosts in Local Area Network (LAN)

nmap: Network scanning tool (commonly used in Kali Linux for security testing).

Example: `nmap -sP 192.168.1.0/24` (Ping scan of the entire subnet)

fping -a -g IP/24: alternative for netdiscover

arp-scan -l : alternative command for netdiscover

nbtscan -r IP/24 - alternative command for netdiscover

nmap -sn IP/24 : alternative command for netdiscover

3. Package Management

apt update: Update package list from repositories.

apt upgrade: Upgrade all installed packages.

apt install [package_name]: Install a new package.

Example: apt install nmap

apt remove [package_name]: Remove a package.

Example: apt remove nmap

apt purge (package name): remove all the files related to the package.

apt search [package_name]: Search for a package.

4. User Management

whoami: Show the current logged-in user.

id: Display user ID and group ID.

sudo: Run a command with superuser privileges.

Example: sudo apt install nmap

adduser: Add a new user.

Example: sudo adduser newuser

passwd: Change the password of a user.

Example: sudo passwd newuser

5. Text File Editing

nano: Simple text editor.

Example: nano file.txt

vim: Advanced text editor (more complex than nano).

Example: vim file.txt

echo "any input" > save_file.txt - save output using > symbol.

Leafpad or mousepad or gedit

6. Searching for Files

find: Search for files and directories.

Example: find /home/user -name "*.txt" (Find all .txt files in the user's home directory)

locate: Find files by name (requires database update).

Example: locate file.txt

grep: Search for text patterns in files.

Example: grep "pattern" file.txt (Search for the string "pattern" in file.txt)

7. System Shutdown and Reboot

reboot: Restart the system.

shutdown -h now: Shut down the system immediately.

poweroff: Power off the system.

8. nmap basic commands:

-sV - for version detection

-sU - scan for UDP ports

-sT - scan for TCP ports

-p- : scan all the 65,535 ports

-p80,22,2222 - scan for specific port

-sS - SYN scan

-O - Operating system scan

-A - Aggressive scan or ALL scan

-vv - verbose

-sC - default script scan

9. Enumeration Tools:

nmap -A -p- IP - to find all info and vulnerability details using IP

dnsrecon -d domain - get info of a dns server

dnsenum / nslookup - alternative command for dnsrecon

enum4linux - to find the vulnerabilities on linux machine

nbtstat -A IP - detail info about remote NetBIOS names & associated IP address table from a specific target

theHarvester -d google.com -l 200 -b baidu/linkedin - get email id

SMB Enumeration:

metasploit : auxiliary/smb/smb_version

smbclient -N -L \\\IP\\ - get info on samba server

smbclient \\\IP\\server_name - login to any smb server

10. Web Application Pentesting Tools:-

nmap -A -p- IP

whatweb domain/IP - to know what technology that server is using

nikto -p 80,443 -h domain/IP - to find the vulnerabilities of a website or web applications

ssllscan IP - to find the ssl/tls version and vulnerabilities

wpscan -u domain: scan wordpress for vulnerability

Directory Bruteforce:

dirbuster (gui)

dirb <URL>

dirbuster -u domain -w wordlist.txt

gobuster dir -u domain -w wordlist.txt

gobuster dns -d domain -w wordlist.txt

Dirsearch -u domain

Subdomain Enumeration:

assetfinder --subs-only domain

amass enum -d domain

gau google.com

subfinder -d domain.com -all -silent

sublist3r -d google.com

sublist3r -d target.com -b -w /path/to/wordlist.txt

exiftool -n image.jpg - find metadata