

# Linux Commands

## Navigation & File Listing

pwd — print working directory

ls -la — list files (show hidden, perms)

cd /path/to/dir — change dir

## File Type & Metadata

file filename — determine file type

stat filename — detailed metadata

du -sh \* — size summary

## Reading Files

cat file — dump file

less file — paged viewer

head -n 20 file / tail -n 20 file — first/last lines

## Searching Inside Files

grep -n "pattern" file — search

grep -R "pattern" . — recursive

grep -i "pattern" — case-insensitive

## Text Processing

cut -d: -f1 /etc/passwd — field extract

sort file | uniq -c | sort -nr — frequency count

tr -d '\r' < file — remove CR

sed 's/foo/bar/g' file — replace

awk '{print \$1}' file — print first column

## **Finding Files**

find /path -name 'filename' 2>/dev/null — search

find . -type f -perm -4000 2>/dev/null — SUID

find . -type f -size +1M — large files

## **Permissions & Ownership**

ls -l — show perms

chmod 700 file — change perms

chown user:group file — change ownership

## **Compression / Archives**

tar -xzf file.tar.gz — extract tar.gz

unzip file.zip — unzip

7z x file.7z — extract 7z

## **Encoding / Decoding**

base64 -d file — decode

xxd -r -p hex.txt > bin — hex to bin

strings file — printable strings

## **Networking & Remote**

ssh user@host -p PORT — SSH

scp file user@host:/path — copy

wget http://host/file — download

nc -lvp PORT — listen

## **Processes & System Info**

ps aux | grep process — find processes

top / htop — monitor

uname -a — kernel info

whoami — current user

id — uid/gid

## **Redirection & Pipes**

cmd > out — overwrite

cmd1 | cmd2 — pipe

2>/dev/null — hide errors

command 2>&1 | tee out — capture output

## **Common Bandit Patterns**

ls -la, find hidden files

file, strings, base64 -d, xxd -r -p

grep -R "password" .

ssh user@host -p PORT

sudo -l (if shell)