

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)