

Linux DevOps Cheat Sheet

User & Permission Management

useradd <name>	Add a new user
usermod -aG <group> <user>	Add user to a group
chmod 755 file	Set read/write/execute for owner, read/execute for group and others
chown user:group file	Change ownership of a file
getfacl/setfacl	Access control lists for fine-grained permissions

Process & Service Management

ps aux	List all processes
top/htop	Interactive process viewer
kill <PID>	Kill a process by ID
systemctl start nginx	Start a systemd service
journalctl -u nginx	View logs for a service

Disk & Storage

df -h	Show disk usage (human readable)
du -sh /folder	Show space used by folder
lsblk	List available block devices
mount /dev/xvdf1 /mnt	Mount a volume
vim /etc/fstab	Configure auto-mount at boot

Networking & SSH

ip a	Show IP addresses
ping <host>	Check connectivity
scp file user@host:/path	Secure copy over SSH
ssh-keygen	Generate SSH key
ssh-copy-id user@host	Copy SSH key to server

Scripting & Automation

#!/bin/bash	Start of a bash script
if [\$x -eq 1]; then	Conditional logic
for i in \$(seq 1 5)	Loop from 1 to 5
crontab -e	Edit cron jobs
logrotate -d /etc/logrotate.conf	Test logrotate config

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Text Processing & Bash Tuning

grep 'text' file	Search in file
awk '{print \$1}'	Print first column
sed 's/a/b/'	Replace text
alias ll='ls -al'	Custom alias
export PATH=\$PATH:/opt	Extend PATH variable