



Linux basic commands | DevOps Yatri

1. File & Directory Commands

Command	Description	Example
ls	List directory contents	ls -l /etc
cd	Change directory	cd /var/log
pwd	Print working directory	pwd
mkdir	Make new directory	mkdir /tmp/devops_logs
rm	Remove files/directories	rm -rf /tmp/devops_logs
touch	Create a new file	touch index.html
cp	Copy files	cp app.conf /etc/app/
mv	Move or rename files	mv app.log backup_app.log

2. File Viewing & Search

Command	Description	Example
cat	View file content	cat /etc/os-release
less / more	View large files	less /var/log/syslog
tail	View end of file	tail -n 100 /var/log/syslog
head	View top of file	head -n 10 myfile.txt
grep	Search inside files	grep ERROR /var/log/syslog

3. Process & Service Management

Command	Description	Example
ps	Show processes	`ps aux
top / htop	System resource usage	top

Command	Description	Example
<code>kill</code>	Kill process by PID	<code>kill -9 1234</code>
<code>systemctl status</code>	Check service status	<code>systemctl status nginx</code>
<code>systemctl restart</code>	Restart a service	<code>systemctl restart nginx</code>

4. Networking Commands

Command	Description	Example
<code>ping</code>	Check connectivity	<code>ping google.com</code>
<code>ip a / ifconfig</code>	Show IP/network config	<code>ip a</code>
<code>netstat</code>	Show network connections	<code>netstat -tulnp</code>
<code>curl</code>	Fetch URL data	<code>curl https://api.github.com</code>
<code>wget</code>	Download file	<code>wget https://example.com/file.zip</code>

5. Permissions & Ownership

Command	Description	Example
<code>chmod</code>	Change file permissions	<code>chmod 755 script.sh</code>
<code>chown</code>	Change file owner	<code>chown user:group file.txt</code>

6. Package Management

OS	Command	Example
Ubuntu/Debian	Install packages	<code>apt update && apt install nginx -y</code>
RHEL/CentOS	Install packages	<code>yum install nginx -y</code>

7. Disk & Storage

Command	Description	Example
<code>df</code>	Show disk usage	<code>df -h</code>
<code>du</code>	Show file/folder size	<code>du -sh /var/log</code>

8. Scheduling & Background Jobs

Command	Description	Example
crontab -e	Edit cron jobs	crontab -e
Cron syntax	Run daily at 2AM	0 2 * * * /home/user/backup.sh
nohup	Run command in background	nohup python3 app.py &

9. User Management

Command	Description	Example
adduser	Add a new user	adduser devops
useradd	Create user (non-interactive)	useradd -m -s /bin/bash devuser
usermod	Modify user account	usermod -aG sudo devops
passwd	Change user password	passwd devops
id	Display UID, GID, and groups	id devops
groups	Show groups user belongs to	groups devops
deluser / userdel	Delete a user	deluser devops / userdel devops
who	List logged-in users	who
w	Show who is logged in and what doing	w
last	Show login history	last

10. System Information & Utilities

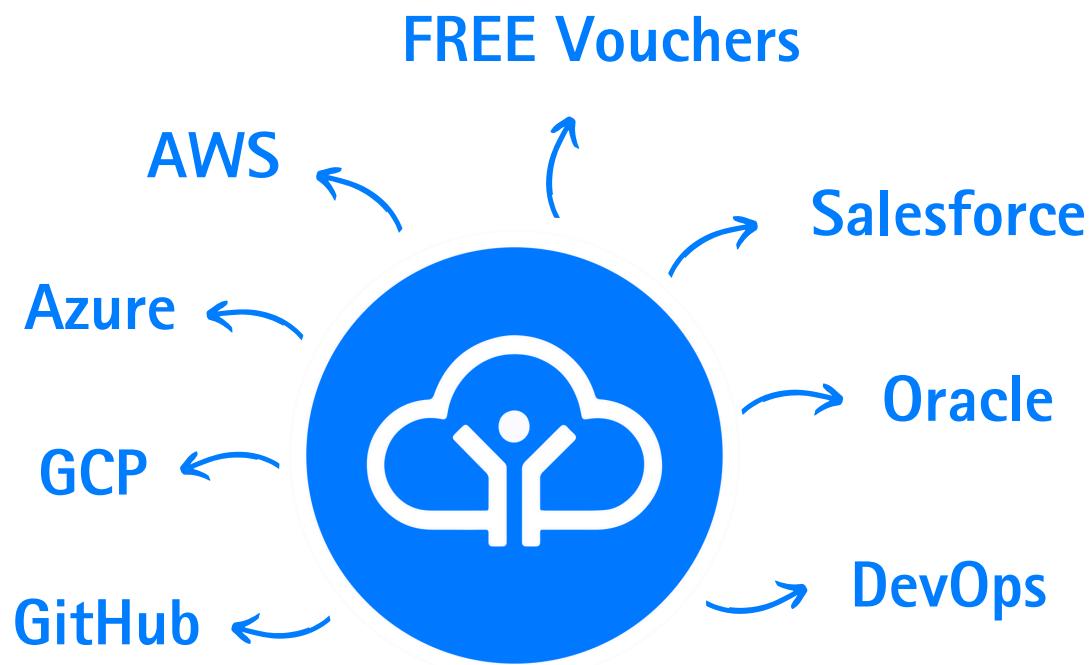
Command	Description	Example
uname -a	Kernel & system info	uname -a
hostname	Show system hostname	hostname
uptime	Show system uptime	uptime
whoami	Current logged-in username	whoami
history	Show command history	history
date	Current system date/time	date clear
clear	Clear terminal screen	



Useful Shortcuts

Shortcut	Description
!!	Run last command again
!n	Run nth command from history
Ctrl I+C	Cancel running command
Ctrl I+L	Clear terminal screen

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