



Linux basic commands | DevOps Yatri

1. File & Directory Commands

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

2. File Viewing & Search

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

3. Process & Service Management

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



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

9. User Management

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

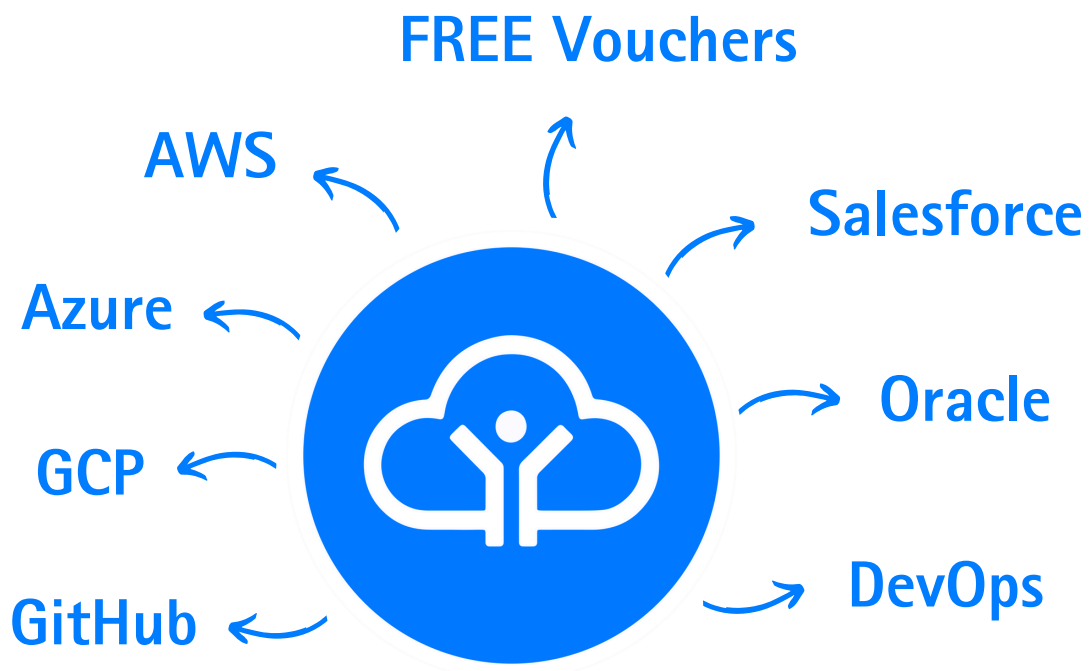
10. System Information & Utilities

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

Useful Shortcuts

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

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