

Advance Linux Commands

| DevOps Yatri

System Monitoring & Performance

Command	Description
<code>top htop</code>	Live list of running processes (press <code>q</code> to quit)
<code>vmstat 1</code>	Enhanced version of <code>top</code> (needs to be installed)
<code>iostat -xz 1</code>	Shows memory, CPU, and I/O usage every 1 sec
<code>uptime free</code>	CPU & disk I/O stats per second (needs sysstat)
<code>-h sar -u 1</code>	System uptime & load average
<code>3</code>	Memory usage in human-readable format
	CPU usage stats (needs sysstat)

Process & Job Control

Command	Description
<code>`ps aux</code>	<code>grep nginx`</code>
<code>kill -9 PID</code>	Force kill a process
<code>pkill <name></code>	Kill process by name
<code>nice -n 10 <cmd></code>	Run command with lower priority
<code>renice -n -5 PID</code>	Change priority of running process
<code>nohup <cmd> &</code>	Run command even after logout
<code>bg , fg</code>	Background/foreground a paused job

Networking

Command	Description
<code>ip a</code>	Show all IP addresses (modern <code>ifconfig</code>)
Command	Description
<code>netstat -tulnp</code>	List listening ports & associated programs
<code>ss -tulwn</code>	Faster alternative to netstat
<code>nmap IP</code>	Scan open ports (needs nmap)
<code>curl -I URL</code>	Show HTTP headers (good for debugging)
<code>ping <host></code>	Check network reachability
<code>traceroute <host></code>	Trace packet path to host

Disk & File Management

Command	Description
<code>df -h</code>	Disk usage of mounted file systems
<code>`du -sh *</code>	<code>sort -h`</code>
<code>mount / umount</code>	Mount/unmount filesystems
<code>lsblk</code>	List block devices
<code>rsync -avz src/ dest/</code>	Sync files/directories (archive + compress)
<code>find / -type f -name "file.txt"</code>	Find files by name
<code>locate <file></code>	Fast file search (needs <code>updatedb</code>)

Security & Permissions

Command	Description
<code>chmod 755 file</code>	Set executable permissions
<code>chown user:group file</code>	Change ownership
<code>umask</code>	Show default permission mask
<code>sudo visudo</code>	Safely edit sudoers file
<code>passwd <user></code>	Change user password
<code>ssh user@host</code>	Secure remote login
<code>scp file user@host:/path</code>	Secure copy over SSH

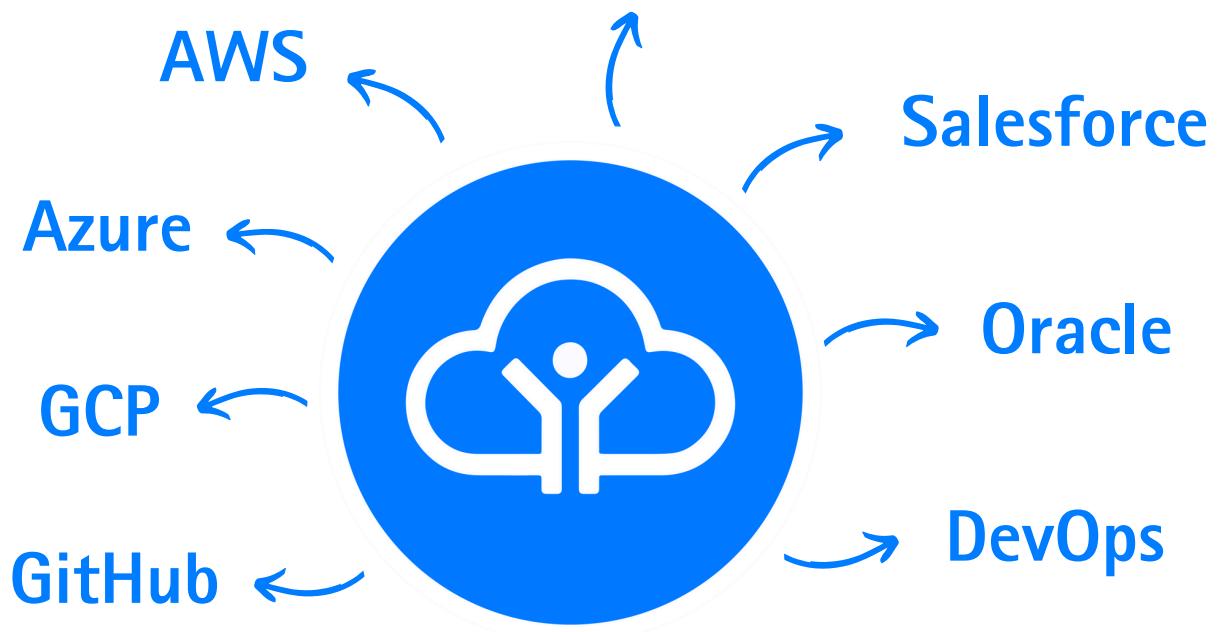
Logs & Debugging

Command	Description
<code>journalctl -xe</code>	View critical system logs
<code>tail -f /var/log/syslog</code>	Live tail system log (Debian/Ubuntu)
<code>`dmesg`</code>	<code>less`</code>
<code>strace -p PID</code>	Trace syscalls of a running process
<code>lsof -i :80</code>	See which process is using port 80
<code>file <filename></code>	Identify file type

Pro Tips & Troubleshooting Commands

Command	Description
<code>watch -n 1 df -h</code>	Refresh disk usage every second
<code>ss -plnt</code>	Show open ports and listening processes
<code>`history</code>	<code>grep ssh`</code>
<code>uptime && who</code>	Show uptime and logged-in users
<code>tldr <cmd></code>	Simplified man pages (needs <code>tldr</code> tool)
<code>ls -ltr</code>	List files by modified time (latest last)
<code>`netstat -plant</code>	<code>grep :22`</code>
<code>grep -ir "error" /var/log/</code>	Search all logs for "error"
<code>xargs</code>	Run commands from stdin (e.g., cleanup)
<code>alias ll='ls -alF'</code>	Create handy shell shortcuts

FREE Vouchers



YATRI CLOUD





**Follow me on
LinkedIn**

→ to stay updated