



3. Process Management:

Process Management Commands in Linux

- `ps aux` – Show all running processes
- `top` – Dynamic real-time process monitoring
- `htop` – Interactive process viewer (needs installation)
- `pidof process_name` – Get the PID of a process
- `pgrep process_name` – Find process ID by name
- `kill PID` – Terminate a process by PID
- `killall process_name` – Kill all processes by name
- `pkill process_name` – Kill processes matching a name pattern
- `nice -n N command` – Start a process with priority (lower N = higher priority)
- `renice N -p PID` – Change priority of a running process
- `nohup command &` – Run process in background, ignore hangups
- `jobs` – List background processes
- `bg %job_id` – Resume a background job
- `fg %job_id` – Bring background job to foreground
- `disown -h %job_id` – Remove job from shell control

- `strace -p PID` – Trace system calls of a process
 - `lsuf -p PID` – List open files of a process
 - `watch command` – Run a command repeatedly
 - `timeout 10s command` – Run a command for 10 seconds
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