

Process Verification	
Command	Purpose
ps	Display running processes
ps aux	List all running processes
ps -ef	Full process listing
top	Real-time process monitor
htop	Interactive process monitor (if installed)
pgrep	Find processes by name
pidof	Display PID of a process
pstree	Display processes in a tree

Process ID (PID)	
Command	Purpose
echo \$\$	Current shell PID
echo \$PPID	Parent process ID
ps	View PID
pgrep	Find PID by process name
pidof	Find PID of running program

Priority	
Command	Purpose
nice	Start process with priority
renice	Change priority
ps -l	View nice value

Process Limits	
Command	Purpose
ulimit	View/set shell resource limits
prlimit	View/change process limits
limits.conf	Configure permanent limits

Process States	
States	
R (Running)	
S (Sleeping)	
D (Uninterruptible sleep)	
T (Stopped)	
Z (Zombie)	

Jobs & Process Management	
Command	Purpose
jobs	List background jobs
bg	Resume in background
fg	Bring to foreground
kill	Send signal
killall	Kill by process name
pkill	Kill by pattern
nohup	Continue after logout
&	Run in background
Ctrl+C	Interrupt process
Ctrl+Z	Suspend process

Scheduling	
Command	Purpose
crontab	Manage recurring jobs
cron	Background scheduler
at	Schedule one-time jobs
atq	List pending at jobs
atrm	Remove at jobs
systemctl	Manage cron/at services



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