

# CheatSheet: Linux Process

# LINUX

- PDF Link: [cheatsheet-process-A4.pdf](#), Category: linux
- Blog URL: <https://cheatsheet.dennyzhang.com/cheatsheet-process-A4>
- Related posts: CheatSheet: Linux Files, #denny-cheatsheets

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## 1.1 Find process

Name	Comment
Sort processes by ram usage	<code>ps -eo size,pid,user,pcpu,command --sort -rss</code>
Sort processes by cpu usage	<code>ps -eo size,pid,user,pcpu,command --sort -pcpu</code>
Find process by name	<code>pgrep &lt;process_name&gt;</code>
Get parent process id by pid	<code>ps -o ppid= -p &lt;pid&gt;</code>
List zombie processes	See zombie-process.sh

## 1.2 Debug process

Name	Comment
Trace system calls and signals by pid	<code>strace -p &lt;pid&gt;</code>
List all file handlers by pid	<code>lsof -p &lt;pid&gt;</code>
Display process tree by pid	<code>pstree -A -n -p &lt;pid&gt;</code>
List all listening ports by pid	See proc-listen-ports.sh

## 1.3 Kill process

Name	Comment
Kill process gracefully	<code>kill &lt;pid&gt;, kill -15 &lt;pid&gt;, kill -TERM &lt;pid&gt;</code>
Kill process by force	<code>kill -9 &lt;pid&gt;, kill -KILL &lt;pid&gt;</code>
kill process by its full process name	<code>pkill &lt;processname&gt;</code>
kill process by it's partial name	<code>pkill -f &lt;process-string&gt;</code>
Kill process by process name	<code>killall &lt;process_name&gt;</code>

## 1.4 Explore /proc filesystem

Name	Comment
Check process start command	<code>cat /proc/\$pid/cmdline</code>
Check process environment variables	<code>cat /proc/\$pid/environ</code>
Check process ulimits setting	<code>cat /proc/\$pid/limits</code>
Check cpu utilization	<code>/proc/loadavg</code>
Get current IP from /proc	See proc-get-ip.sh

## 1.5 More Resources

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