

# Process Management Commands

Cmds	Description	Options	Examples
<a href="#">ps</a>	Display running processes.	<ul style="list-style-type: none"><li>• <b>-aux</b>: Show all processes.</li></ul>	<ul style="list-style-type: none"><li>• <b>ps aux</b> shows all running processes with detailed information.</li></ul>
<a href="#">top</a>	Monitor system processes in real-time.		<ul style="list-style-type: none"><li>• <b>top</b> displays a dynamic view of system processes and their resource usage.</li></ul>
<a href="#">kill</a>	Terminate a process.	<ul style="list-style-type: none"><li>• <b>-9</b>: Forcefully kill a process.</li></ul>	<ul style="list-style-type: none"><li>• <b>kill PID</b> terminates the process</li></ul>

			with the specified process ID.
<a href="#">pkill</a>	Terminate processes based on their name.		<ul style="list-style-type: none"><li>● <b>pkill process_name</b> terminates all processes with the specified name.</li></ul>
<b>pgrep</b>	List processes based on their name.		<ul style="list-style-type: none"><li>● <b>pgrep process_name</b> lists all processes with the specified name.</li></ul>

## [grep](#)

used to search for specific patterns or regular expressions in text files or streams and display matching lines.

- **-i:** Ignore case distinctions while searching.
- **-v:** Invert the match, displaying non-matching lines.
- **-r or -R:** Recursively search directories for matching patterns.

- **grep -i "hello" file.txt**
- **grep -v "error" file.txt**
- **grep -r "pattern" directory/**
- **grep -l "keyword" file.txt**
- **grep -n "pattern" file.txt**  
In these examples we are extracting our desired output from filename

alongside  
matching lines.

- **-w:** Match whole words only, rather than partial matches.
- **-c:** Count the number of matching lines instead of displaying them.
- **-e:** Specify multiple patterns to search for.
- **-A:** Display lines after the matching line.
- **-B:** Display lines before the matching line.

		<ul style="list-style-type: none"><li>• <b>-C:</b> Display lines both before and after the matching line.</li></ul>	
--	--	---	--