Processes and Job Control

What You Will Learn

- List running processes.
- Foreground vs background processes.
- Launch background processes.
- Kill processes.

Listing Processes and Information

ps **Display process status.**

ps Options

-e Everything, all processes.

-f Full format listing.

-u username Display username's processes.

-p pid **Display information for PID.**

Common ps Commands

ps -e Display all processes.

ps -ef Display all processes, full.

ps -eH Display a process tree.

ps -e --forest Display a process tree.

ps -u username Display user's processes.

Other ways to view processes

pstree Display processes in a tree format.

top Interactive process viewer.

htop Interactive process viewer.

Demo-ps

Background and Foreground Processes

command & Start command in background.

Ctrl-c Kill the foreground process.

Ctrl-z Suspend the foreground process.

Background and Foreground Processes

Background a suspended process.

fg [%num] Foreground a background process.

Kill a process by job number or PID.

jobs [%num] List jobs.

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Killing Processes

Ctrl-c
kill [-sig] pid
kill -l

Kills the foreground proc. Send a signal to a process. Display a list of signals.

kill 123

kill -15 123

kill -TERM 123

kill -9 123

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Demo - background

Demo - ps

Summary

- ps
- Ctrl-c
- Ctrl-Z
- bg
- fg
- jobs
- kill