# **PROCESS MANAGEMENT**

These commands are essential for managing and interacting with processes in a Linux environment. They provide control over the execution of programs, allowing users to monitor, pause, resume, and adjust the priority of processes as needed.

processes as needed.
• ps Command:
Purpose:
Display information about active processes.
Usage:
ps [options]
Examples:
ps aux
Notes:
ps provides a snapshot of currently running processes.
Common options include aux (show all processes in a user-friendly format) and e (display information about othe users' processes).
• <u>bg Command:</u>
Purpose:
Move a suspended process to the background.
Usage:
bg [job_spec]
Examples:
bg %1
Notes:
Used with a job specifier (like %1), bg sends a process that was stopped or suspended to run in the background.
Useful when a process needs to continue running without occupying the terminal.
• fg Command:
Purpose:
Bring a background process to the foreground.
Usage:
fg [job_spec]

fg %1

**Examples:** 

#### Notes:

fg is used to resume a process that has been stopped or sent to the background.

The job specifier (e.g., %1) refers to the specific background job.

## • <u>nice Command:</u>

### **Purpose:**

Adjust the priority of a process.

### **Usage:**

nice [OPTION] [COMMAND [ARG]...]

### **Examples:**

nice -n 10 ./my\_program

#### **Notes:**

nice allows you to run a command with a modified scheduling priority.

The priority level ranges from -20 (highest priority) to 19 (lowest priority), with the default being 0.