Processes

Go through the basic concepts about the system processes and the command to get their status.

A **process** is a running instance created when a program or a software system is initiated. They can be perceived as programs in action. Processes are often referred as *tasks*.

PID:

Every process has a unique identifier assigned to it at the time of its creation, known as **PID** (*process identifier*).

PPID:

Every process id spawned by its parent process. The **PID** of its parent is called as **PPID**.

ps

Definition:

Short for **"process status"**, the command **ps** gives the status and information about the currently running processes along with their **PID's** (process identification numbers).

Syntax:

ps [options]

Options:

Ontion

Option	Description
-A	Select all processes. Identical to - e .
-d	Select all processes except session leaders.
r	Restrict the selection to only running processes.
p pidlist OR -p pidlist ORpid pidlist	Select by process ID.
ppid pidlist	Select by parent process ID.
-s sesslist ORsid sesslist	Select by session ID.

Example:

• To see every process running on the system, using the standard syntax:

ps -e

• To display a process tree:

ps -ejh

• Print only the name of process ID 21:

```
ps -p 21 -o comm=
```