

# Working with Linux Processes in Linux

**Talk to a Teacher**  
**National Mission on Education through ICT**

**<http://spoken-tutorial.org>**

**Script**

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# Pre-requisites :



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- **Ubuntu 10.04**



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- ▶ **Please refer to spoken tutorials on**  
**<http://spoken-tutorial.org>**



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- ▶ **Ubuntu 10.04**
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- ▶ **Linux is case sensitive.**



# What is a process ?

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- ▶ **Examples**
  - ▶ Shell that is running and taking our commands
  - ▶ The commands that we type on terminal
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  - ▶ Shell scripts that are running



# What is a process ?

- ▶ **A program which is being executed**



# What is a process ?

- ▶ A program which is being executed
- ▶ Processes are much like us



# What is a process ?

- ▶ A program which is being executed
- ▶ **Processes are much like us**
  - ▶ They are born, they die



# What is a process ?

- ▶ A program which is being executed
- ▶ **Processes are much like us**
  - ▶ They are born, they die
  - ▶ They have parent and children





# Shell process

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- ▶ The Linux Kernel is the core of the Linux operating system
- ▶ Consists of the most essential component that make Linux run
- ▶ The shell creates or gives birth to all the other user command processes



# Spawning

- ▶ A shell can also give birth to another shell process



# Spawning

- ▶ A shell can also give birth to another shell process
- ▶ Giving birth to a process or creating a process is also called spawning a process.



# Process attributes

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  - ▶ **PID**: Process ID
  - ▶ **PPID**: Parent Process ID
  - ▶ Start time, etc
- ▶ **PID**: Each process is uniquely identified by a unique integer = PID
- ▶ **PPID**: The PID of the parent of that process



# ps command

- ▶ **ps(process status) is a command which displays the processes running in the system**



# ps command

- ▶ **ps(process status) is a command which displays the processes running in the system**
- ▶ **Let us see what happens if we run this command without any options.**



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  - ▶ **Eg:** `bash`



# All processes

- ▶ To see all the processes



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# All processess

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  - ▶ System processes
  - ▶ User processes
- ▶ We use the -e or the -A option



# Summary

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  - ▶ Different types of processes and



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  - ▶ **Shell process**
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  - ▶ **Process attributes**
  - ▶ **Different types of processes and**
  - ▶ **'ps' command**





# Acknowledgement

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- ▶ **More information:**  
<http://spoken-tutorial.org/NMEICT-Intro>

