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Challenges - Linux Processes

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Networking in Linux

- Getting Information about the Network Interfaces (ip, ifconfig) (7:28)
- Configuring the Network On The Fly (ifconfig, ip, route) (7:15)
- Quiz for Network Interfaces
- Setting Up Static IP on Ubuntu (netplan) (7:38)
- Testing and Troubleshooting Network Connectivity (9:49)

Challenges - Linux Processes

How to solve these challenges:

- To be consistent with the filenames and paths run the commands on Ubuntu
- Write your solution **in a terminal** and **test it**.
- If your solution is not correct, then try to understand the error messages, watch the video again, rewrite the solution, and test it again. Repeat this step until you get the correct solution.
- Save** the solution in a file for future reference or recap.

Challenge #1

- List all running processes.
- Check if a process named **bash** is running (use both **ps** and **pgrep**).

Are you stuck? Do you want to see the solution to this challenge? Click [here](#).

Challenge #2

- Using the **ps** command list all processes sorted by memory in reverse order.
- Redirect the output to a file called **processes.txt**

Are you stuck? Do you want to see the solution to this challenge? Click [here](#).

Challenge #3

- Start **top**, sort processes by CPU and highlight the running processes and the sorting column.

Are you stuck? Do you want to see the solution to this challenge? Click [here](#).

Challenge #4

- Generate a text file that contains 3 runs (refreshes) of **top** with a delay of 1second.

Are you stuck? Do you want to see the solution to this challenge? Click [here](#).

Challenge #5

- Install **htop** and start it.

Are you stuck? Do you want to see the solution to this challenge? Click [here](#).

Challenge #6

- Using the **kill** command send the default signal (SIGTERM - 15) to the current terminal.

Are you stuck? Do you want to see the solution to this challenge? Click [here](#).

Challenge #7

- Start a graphical application like **gedit** or **firefox**.
- Find its PID and send the **SIGINT (2)** signal to the application.

Are you stuck? Do you want to see the solution to this challenge? Click [here](#).

Challenge #8

- Start a graphical application like **gedit** from a terminal in the background.
- Kill the application using **pkill**.

Are you stuck? Do you want to see the solution to this challenge? Click [here](#).

Challenge #9

- Run a command that takes some time to complete like **ls -lR /** in the foreground. After a few seconds stop (pause) the command by pressing **Ctrl + Z**.
- Print its JOBID and PID and resume the command in the foreground.

Are you stuck? Do you want to see the solution to this challenge? Click [here](#).

Challenge #10

- Run **sleep 100** in the background.
- Close the terminal, open it again and check if the process is still running.
- If it's not running, run **sleep 100** again making it immune to the closing terminal.

Are you stuck? Do you want to see the solution to this challenge? Click [here](#).