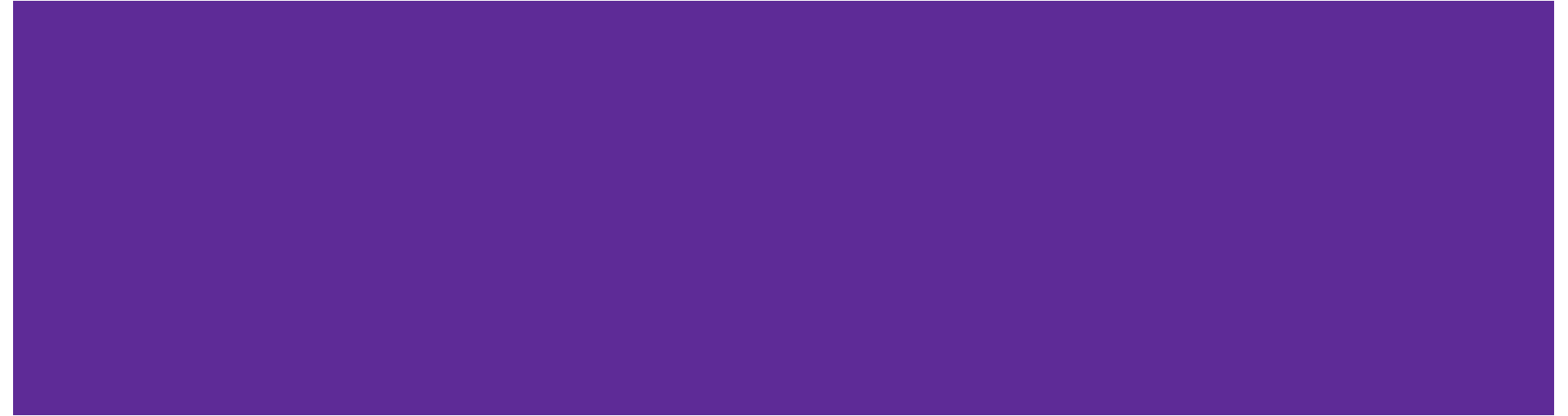


# Practical Work 04

Process, Jobs Control, Pipelines and Redirection



# Lab: Your Work (1)

1. Enter command "**jobs**". What is the result? Why?
2. Delay system run by using command "**sleep**" and then run the command to create a file "*mydelaytesting.txt*" by using command "**touch**", and wait them in the background process:
  - `sleep 600; touch mydelaytesting.txt &`
3. Try to check if the file "*mydelaytesting.txt*" is created immediately or not? (**ls**)
4. Enter command "**jobs**". What is the result? Why?
5. Download "**Linux eBook**" from course syllabus by using command "**wget**" and wait them in background process:
  - `wget --limit-rate=20 -O thelinuxcommandline.pdf https://www.kea.nu/files/textbooks/humblesec/thelinuxcommandline.pdf &`
6. Try to check if the file is downloaded or not? (using **ls**)
7. Enter command "**jobs**". What is the result? Why?

# Lab: Your Work (1) - Continue

1. Download “**Operating System eBook**” from course syllabus by using command “**wget**” and wait them in background process:
  - **wget --limit-rate=50 -O Operating-System-Concepts.pdf**  
`https://os.ecci.ucr.ac.cr/slides/Abraham-Silberschatz-Operating-System-Concepts-10th-2018.pdf &`
2. Try to check if any file is downloaded or not (using **ls**)? Why?
3. Enter command “**jobs**”. What is the result?
4. Enter command to bring the process of downloading “**Linux eBook**” to the **foreground**
  - What happen?
  - How to suspend current foreground process?
5. Enter command “**jobs**”. What is the result?
6. How to **resume** the suspended above process (download “Linux eBook”)?
7. Where does “**sleep**” command gone from this “**jobs**” listing?

# Lab: Your Work (2)

1. Display all processes are running by using command "**ps**" and "**ps aux**"
2. Filter the processes that are currently is running "**wget**" by using **ps aux, grep** and pipelines
3. Output the result of filtering above to a file located in **~/mypscmd.txt**
4. Show result inside that file "**mypscmd.txt**"
5. Describe the result.
6. Kill process "PID = 1" that is running, and what happen? why?
7. Kill those "**wget**" processes that are still running
8. Check those processes again, do they still existing?

# Lab: Your Work (3)

1. Access to remote server "`ssh your_student_id@os.cammob.ovh`"
2. Display all processes are running by using command `ps`
3. Filter the processes that are currently running by your user account by using `ps`, `grep` and pipelines
4. Output all processes running by your user account and redirect the output result to a file located in `~/public_html/your.full.name/myps01.txt`
5. Go to browser enter
  - `http://your_student_id.os.cammob.ovh/your.full.name/myps01.txt`

# Assignment W04-1

1. Access to your account in remote server "`ssh your_student_id@os.cammob.ovh`"
2. Create new directory directory "`public_html/your.full.name/lab04/output/`"
3. Save all of your access logs inside file "`~/logs/access_log`" to a file "`public_html/your.full.name/lab04/output/myaccess.log`" follow by criteria below:
  - a. Filter access log of today of this lab class start
    - i. For example today is "05/Feb/2026"
  - b. And filter more result of "`/your.full.name/`"

# Submit Your Assignment W04-1

1. Screenshot your command lines from the terminal
2. Screenshot your result output from browser access to `lab04/output/myaccess.log`
3. Upload your PDF file contains those screenshot into eLearning