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LAP 4

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?

```
ashxio@ashio:~$ (sleep 15; touch mydelaytesting.txt) &
[1] 1002
ashxio@ashio:~$ ls
public_html
ashxio@ashio:~$ jobs
[1]+  Running                 ( sleep 15; touch mydelaytesting.txt ) &
ashxio@ashio:~$ jobs
[1]+  Done                    ( sleep 15; touch mydelaytesting.txt )
ashxio@ashio:~$ ls
mydelaytesting.txt  public_html
```

1. The first "jobs" doesn't give any result bcus there is nth running in the background
2. The ; tells the system to do the command in order. Sleep command tells the system to wait then do the second command which is to create the file and the & put them both to run in the background.
3. The file isn't created immediately when using ls to check bcus it still have to wait
4. Command jobs now show that there is task running, after it's done the file is now created.

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?


```
ashxio@ashio:~$ wget --limit-rate=20 -O thelinuxcommandline.pdf https://www.kea.nu/files/textbooks/humblesec/thelinuxcom
mandline.pdf &
[1] 1075
ashxio@ashio:~$
Redirecting output to 'wget-log'.
ls
mydelaytesting.txt  public_html  thelinuxcommandline.pdf  wget-log
ashxio@ashio:~$ jobs
[1]+  Running                 wget --limit-rate=20 -O thelinuxcommandline.pdf https://www.kea.nu/files/textbooks/humbles
ec/thelinuxcommandline.pdf &
ashxio@ashio:~$ jobs
[1]+  Running                 wget --limit-rate=20 -O thelinuxcommandline.pdf https://www.kea.nu/files/textbooks/humbles
ec/thelinuxcommandline.pdf &
ashxio@ashio:~$
```

5. --limit-rate=20, the file is downloading at 20byte per sec making it super slow
6. Using ls will show the file since it was created immediately by using the -o (output doc) but it will be empty until the download is fully done
7. Jobs still show the tasking running in the background meaning it is still downloading

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?

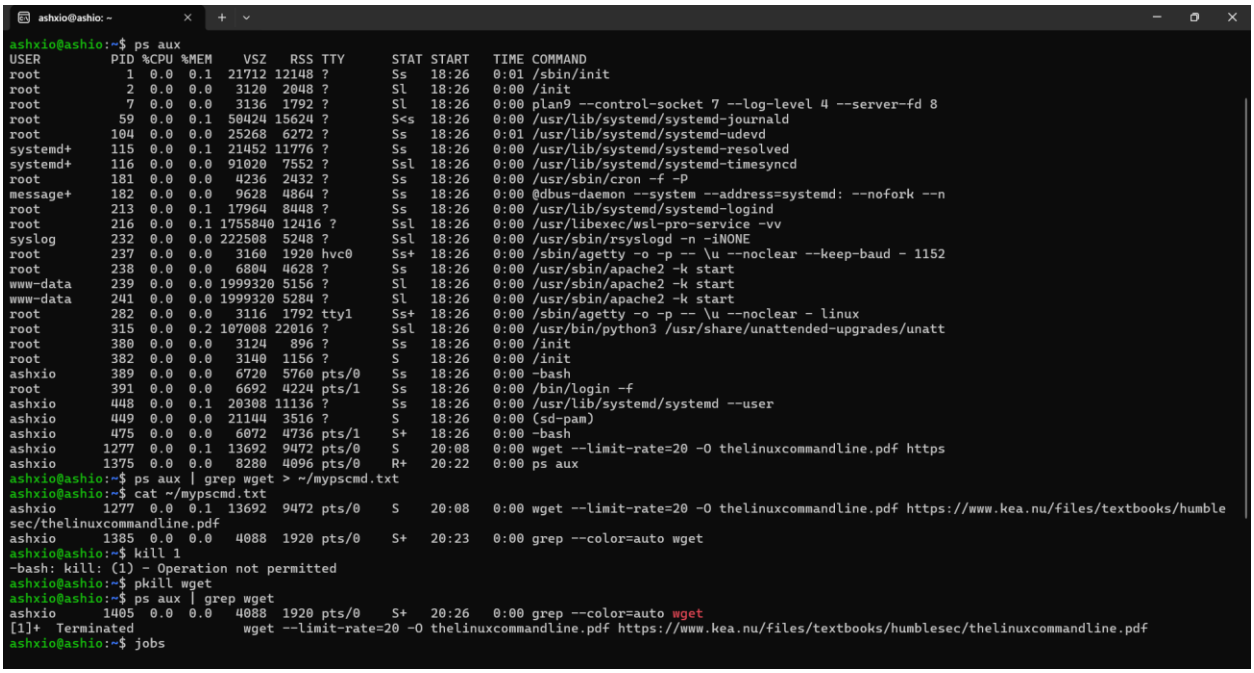
```
ashxio@ashio:~$ wget --limit-rate=50 -O Operating-System-Concepts.pdf https://os.ecci.ucr.ac.cr/slides/Abraham-Silbersch
atz-Operating-System-Concepts-10th-2018.pdf &
[2] 1283
ashxio@ashio:~$
Redirecting output to 'wget-log.1'.
ls
Operating-System-Concepts.pdf  mydelaytesting.txt  public_html  thelinuxcommandline.pdf  wget-log  wget-log.1
ashxio@ashio:~$ jobs
[1]-  Running                 wget --limit-rate=20 -O thelinuxcommandline.pdf https://www.kea.nu/files/textbooks/humbles
ec/thelinuxcommandline.pdf &
[2]+  Running                 wget --limit-rate=50 -O Operating-System-Concepts.pdf https://os.ecci.ucr.ac.cr/slides/Abr
aham-Silberschatz-Operating-System-Concepts-10th-2018.pdf &
ashxio@ashio:~$ fg %1
wget --limit-rate=20 -O thelinuxcommandline.pdf https://www.kea.nu/files/textbooks/humblesec/thelinuxcommandline.pdf
--2026-02-05 15:43:11--  https://www.kea.nu/files/textbooks/humblesec/thelinuxcommandline.pdf
Resolving www.kea.nu (www.kea.nu)... 172.67.131.243, 104.21.12.76, 2606:4700:3030::ac43:83f3, ...
Connecting to www.kea.nu (www.kea.nu)|172.67.131.243|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 7458677 (7.1M) [application/pdf]
Saving to: 'thelinuxcommandline.pdf'
```

2. Using ls will show the file since it was created immediately by using the -o (output doc) but it will be empty until the download is fully done
3. Jobs will list two running jobs, one from the last download that is still running
4. Once we enter the command to bring the linux ebook to the front we will lose control of the terminal again as it is now a foreground task and it will also show the download status bar. Use crtl z to suspend the current job
5. Use bg %1 to resume the download in the background
6. The sleep command is gone bcus it has alr finished running

(note: only put the sleep for 15sec cus wanted to test it on a shorter duration)

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?



The result shows only the wget commands we ran before

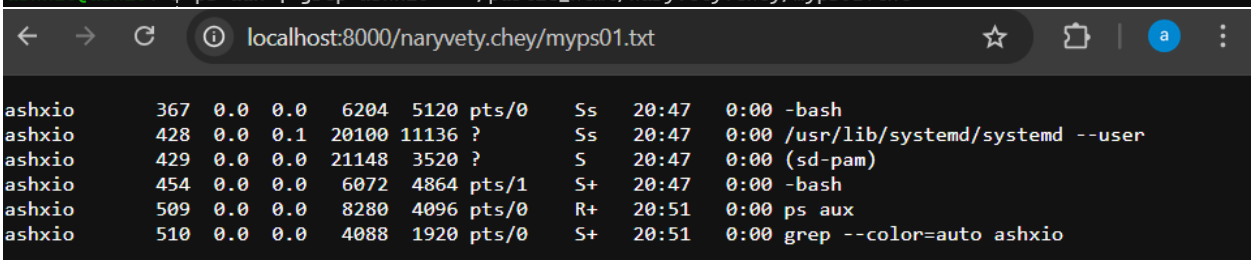
Kill 1 doesn't work bcus it is the parent of all process so we don't have perm to kill it or else everything would crash

The wget process don't exist anymore bcus we already terminated the tasks and the jobs would also show nth

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

```
ashxio@ashio:~$ ps
    PID TTY          TIME CMD
    367 pts/0    00:00:00 bash
    487 pts/0    00:00:00 ps
ashxio@ashio:~$ ps aux | grep ashxio
ashxio       367  0.0  0.0   6072  4992 pts/0    Ss   20:47   0:00 -bash
ashxio       428  0.1  0.1  20100 11136 ?        Ss   20:47   0:00 /usr/lib/systemd/systemd --user
ashxio       429  0.0  0.0  21148  3520 ?        S    20:47   0:00 (sd-pam)
ashxio       454  0.0  0.0   6072  4864 pts/1    S+   20:47   0:00 -bash
ashxio       495  0.0  0.0   8280  4096 pts/0    R+   20:48   0:00 ps aux
ashxio       496  0.0  0.0   4088  1920 pts/0    S+   20:48   0:00 grep --color=auto ashxio
ashxio@ashio:~$ ps aux | grep ashxio > ~/public_html/naryvety.chey/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/"

```
ashxio@ashio:~$ mkdir -p ~/public_html/naryvety.chey/lap04/output/
ashxio@ashio:~$ grep "05/Feb/2026" /var/log/apache2/access.log | grep "/naryvety.chey/" > ~/public_html/naryvety.chey/la
p04/output/myaccess.log
ashxio@ashio:~$ cat ~/public_html/naryvety.chey/lap04/output/myaccess.log
ashxio@ashio:~$ python3 -m http.server --directory public_html 8000
Serving HTTP on 0.0.0.0 port 8000 (http://0.0.0.0:8000/) ...
127.0.0.1 - - [05/Feb/2026 21:11:22] "GET / HTTP/1.1" 200 -
127.0.0.1 - - [05/Feb/2026 21:11:24] "GET /naryvety.chey/ HTTP/1.1" 200 -
127.0.0.1 - - [05/Feb/2026 21:11:28] "GET /naryvety.chey/lap04/ HTTP/1.1" 200 -
127.0.0.1 - - [05/Feb/2026 21:11:30] "GET /naryvety.chey/lap04/output/ HTTP/1.1" 200 -
127.0.0.1 - - [05/Feb/2026 21:11:31] "GET /naryvety.chey/lap04/output/myaccess.log HTTP/1.1" 200 -
```

Theres nth cus theres no activity