

Week4 lab

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Lab 1

```
^C
lancd@LancD:~/Documents/term2-Year2/operatingSystem/week4$ jobs
[1]+  Running                  python3 -m http.server 8000 &
lancd@LancD:~/Documents/term2-Year2/operatingSystem/week4$
```

This command shows me what is running in the background, and it shows the python server that i got running in the background.

```
lancd@LancD:~/Documents/term2-Year2/operatingSystem/week4$ sleep 600; touch mydelaytesting.txt &
```

After running the command that you gave me which is (sleep 600; touch mydelaytesting.txt &) it will make us wait 600 seconds before execute the command touch even if we add the & at the back we cannot interrupted with ctrl+c because our machine will execute the command before the (;) first then the rest.

```
lancd@LancD:~/Documents/term2-Year2/operatingSystem/week4$ (sleep 10; touch mydelaytesting.txt) &
[2] 19162
lancd@LancD:~/Documents/term2-Year2/operatingSystem/week4$ jobs
[1]-  Running                  python3 -m http.server 8000 &
[2]+  Running                  ( sleep 10; touch mydelaytesting.txt ) &
lancd@LancD:~/Documents/term2-Year2/operatingSystem/week4$ ls
'04_Linux Process, Jobs Control, Pipelines and Redirection.pptx.pdf'  myls.txt  viseth.vorng
lancd@LancD:~/Documents/term2-Year2/operatingSystem/week4$ ls
'04_Linux Process, Jobs Control, Pipelines and Redirection.pptx.pdf'  mydelaytesting.txt  myls.txt  viseth.vorng
[2]+  Done                    ( sleep 10; touch mydelaytesting.txt )  Running
lancd@LancD:~/Documents/term2-Year2/operatingSystem/week4$
```

just wrap the whole command in () and put the & outside to be able to let in run in the background.

No, the file mydelaytesting.txt will not create immediately because we need to wait for 10 seconds to execute the next command.

The command jobs will show the wait 10 seconds in the background and cerate the file.

```

lancd@LancD:~/Documents/term2-Year2/operatingSystem/week4$ jobs
[1]- Running python3 -m http.server 8000 &
[2]+ Running wget --limit-rate=20 -O thelinuxcommandline.pdf https://www.kea.nu/files/textbooks/humblesec/thelinuxcommandline.pdf &
lancd@LancD:~/Documents/term2-Year2/operatingSystem/week4$ ls
'04_Linux Process, Jobs Control, Pipelines and Redirection.pptx.pdf'  mydelaytesting.txt  myls.txt  thelinuxcommandline.pdf  viseth.vorng  wget-log  wget-log.1
lancd@LancD:~/Documents/term2-Year2/operatingSystem/week4$ jobs
[1]- Running python3 -m http.server 8000 & [1]+  Running python3 -m http.server 8000 &
[2]+ Running wget --limit-rate=20 -O thelinuxcommandline.pdf https://www.kea.nu/files/textbooks/humblesec/thelinuxcommandline.pdf &
lancd@LancD:~/Documents/term2-Year2/operatingSystem/week4$ This command shows me what is running in the background, and it shows the python server that i got running in the background.

```

The wget is working but i set the limit for the download speed is too low. If you don't specific it the default is KB so 20KB / min is so slow.

```

lancd@LancD:~/Documents/term2-Year2/operatingSystem/week4$ wget --limit-rate=20 -O thelinuxcommandline.pdf https://www.kea.nu/files/textbooks/humblesec/thelinuxcommandline.pdf &
[2] 30383
lancd@LancD:~/Documents/term2-Year2/operatingSystem/week4$ Redirecting output to 'wget-log'.
lancd@LancD:~/Documents/term2-Year2/operatingSystem/week4$ ls
'04_Linux Process, Jobs Control, Pipelines and Redirection.pptx.pdf'  mydelaytesting.txt  myls.txt  thelinuxcommandline.pdf  viseth.vorng  wget-log
lancd@LancD:~/Documents/term2-Year2/operatingSystem/week4$ jobs
[1]- Running python3 -m http.server 8000 &
[2]+ Running wget --limit-rate=20 -O thelinuxcommandline.pdf https://www.kea.nu/files/textbooks/humblesec/thelinuxcommandline.pdf &
lancd@LancD:~/Documents/term2-Year2/operatingSystem/week4$ 

```

It is downloading but when i open it. It is corrupted because it is still downloading

```

lancd@LancD:~/Documents/term2-Year2/operatingSystem/week4$ wget --limit-rate=50 -O Operating-System-Concepts.pdf https://os.ecci.ucr.ac.cr/slides/Abraham-Silberschatz-Operating-System-Concepts-10th-2018.pdf &
[3] 32393
      Try to check if the file 'mydelaytesting.txt' is created immediately or not? (1e)
lancd@LancD:~/Documents/term2-Year2/operatingSystem/week4$ man 'jobs'. What is the result? Why?
Redirecting output to 'wget-log.1'.
      Download 'Linux eBook' from course syllabus by using command 'wget' and wait them in
lancd@LancD:~/Documents/term2-Year2/operatingSystem/week4$ ls -prcesses
'04_Linux Process, Jobs Control, Pipelines and Redirection.pptx.pdf'  myls.txt          thelinuxcommandline.pdf  wget-log
mydelaytesting.txt          Operating-System-Concepts.pdf  viseth.vorng  wget-log.1
lancd@LancD:~/Documents/term2-Year2/operatingSystem/week4$ jobs
[1]-  Running python3 -m http.server 8000 &
[2]-  Running wget --limit-rate=20 -O thelinuxcommandline.pdf https://www.kea.nu/files/textbooks/humblesec/thelinuxcommandline.pdf &
[3]+  Running wget --limit-rate=50 -O Operating-System-Concepts.pdf https://os.ecci.ucr.ac.cr/slides/Abraham-Silberschatz-Operating-System-Concepts-10th-2018.pdf &
lancd@LancD:~/Documents/term2-Year2/operatingSystem/week4$ 

lancd 35546 0.0 0.0 13880 4852 pts/0 R+ 15:37 0:00 ps aux
lancd@LancD:~/Documents/term2-Year2/operatingSystem/week4$ jobs
      Current foreground process?
[1]-  Running python3 -m http.server 8000 & man 'jobs'. What is the result?
[2]+  Running wget --limit-rate=20 -O thelinuxcommandline.pdf https://www.kea.nu/files/textbooks/humblesec/thelinuxcommandline.pdf &
lancd@LancD:~/Documents/term2-Year2/operatingSystem/week4$ fg 2
wget --limit-rate=20 -O thelinuxcommandline.pdf https://www.kea.nu/files/textbooks/humblesec/thelinuxcommandline.pdf
--2026-02-05 15:31:39-- 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'

thelinuxcommandline.pdf
lancd@LancD:~/Documents/term2-Year2/operatingSystem/week4$ 

```

If you bring the process 2 to fg it will download the ebook. To suspend it we can just press ctrl+z and resume it we run fg. The sleep command is gone cuz its already pass the time we set it.

```

lancd@LancD:~/Documents/term2-Year2/operatingSystem/week4$ ps aux | grep wget
lancd 35679 0.0 0.0 9144 2276 pts/0 S+ 15:46 0:00 grep --color=auto wget
lancd@LancD:~/Documents/term2-Year2/operatingSystem/week4$ touch mypscmd.txt
lancd@LancD:~/Documents/term2-Year2/operatingSystem/week4$ ps aux | grep wget >> mypscmd.txt
lancd@LancD:~/Documents/term2-Year2/operatingSystem/week4$ cat mypscmd.txt
lancd 36026 0.0 0.0 9144 2272 pts/0 S+ 15:48 0:00 grep --color=auto wget
lancd@LancD:~/Documents/term2-Year2/operatingSystem/week4$ 

```

So after running all the command the result of the process that is running the wget is now inside the mypscmd.txt file.

```

lancd@LancD:~/Documents/term2-Year2/operatingSystem/week4$ cat mypscmd.txt
cat: mypscmd.txt: No such file or directory
lancd@LancD:~/Documents/term2-Year2/operatingSystem/week4$ cat mypscmd.txt
lancd 36026 0.0 0.0 9144 2272 pts/0 S+ 15:48 0:00 grep --color=auto wget
lancd@LancD:~/Documents/term2-Year2/operatingSystem/week4$ kill 36026
bash: kill: (36026) - No such process
lancd@LancD:~/Documents/term2-Year2/operatingSystem/week4$ 

```

It say no such process but it is gone now

Assignment

```
lancd@Lanc0: ~$ log ls
alternatives.log    apport.log.1    auth.log.2.gz   boot.log.7      dmesg      dpkg.log.4.gz   installer   openvpn     sysstat
alternatives.log.1  apport.log.2.gz  auth.log.3.gz   bootstrap.log  dmesg.0    dpkg.log.5.gz   journal     private    timeshift
alternatives.log.2.gz apport.log.3.gz  auth.log.4.gz   btmp        dmesg.1.gz  dpkg.log.6.gz   kern.log    README    ubuntu-advantage-apt-hook.log
alternatives.log.3.gz apport.log.4.gz  boot.log     btmp.1      dmesg.2.gz  dpkg.log.7.gz   kern.log.1  speech-dispatcher ufw.log
alternatives.log.4.gz apport.log.5.gz  boot.log.1   cloudflare-warp dmesg.3.gz  dpkg.log.8.gz   kern.log.2.gz sssd
alternatives.log.5.gz apport.log.6.gz  boot.log.2   cloud-init.log dmesg.4.gz  faillog     kern.log.3.gz syslog     unattended-upgrades
alternatives.log.6.gz apport.log.7.gz  boot.log.3   cloud-init-output.log dpkg.log.1   fontconfig.log kern.log.4.gz syslog.1   wtmp
alternatives.log.7.gz apt           boot.log.4   cups        dpkg.log.1   gdm3       lastlog     syslog.2.gz
alternatives.log.8.gz auth.log     boot.log.5   cups-browsed dpkg.log.2.gz  gpu-manager.log mongdb     syslog.3.gz
apport.log          auth.log.1    boot.log.6   dist-upgrade dpkg.log.3.gz  hp         mysql      syslog.4.gz

lancd@Lanc0: ~$ var/log $ cd auth_log
bash: cd: auth_log: No such file or directory
lancd@Lanc0: ~$ var/auth_log
bash: cd: auth_log: Not a directory
lancd@Lanc0: ~$ var/log $ ls
alternatives.log    apport.log.1    auth.log.2.gz   boot.log.7      dmesg      dpkg.log.4.gz   installer   openvpn     sysstat
alternatives.log.1  apport.log.2.gz  auth.log.3.gz   bootstrap.log  dmesg.0    dpkg.log.5.gz   journal     private    timeshift
alternatives.log.2.gz apport.log.3.gz  auth.log.4.gz   btmp        dmesg.1.gz  dpkg.log.6.gz   kern.log    README    ubuntu-advantage-apt-hook.log
alternatives.log.3.gz apport.log.4.gz  boot.log     btmp.1      dmesg.2.gz  dpkg.log.7.gz   kern.log.1  speech-dispatcher ufw.log
alternatives.log.4.gz apport.log.5.gz  boot.log.1   cloudflare-warp dmesg.3.gz  dpkg.log.8.gz   kern.log.2.gz sssd
alternatives.log.5.gz apport.log.6.gz  boot.log.2   cloud-init.log dmesg.4.gz  faillog     kern.log.3.gz syslog     unattended-upgrades
alternatives.log.6.gz apport.log.7.gz  boot.log.3   cloud-init-output.log dpkg.log.1   fontconfig.log kern.log.4.gz syslog.1   wtmp
alternatives.log.7.gz apt           boot.log.4   cups        dpkg.log.2.gz  gpu-manager.log mongdb     syslog.2.gz
alternatives.log.8.gz auth.log     boot.log.5   cups-browsed dpkg.log.3.gz  hp         mysql      syslog.3.gz
apport.log          auth.log.1    boot.log.6   dist-upgrade dpkg.log.4.gz  hp         mysql      syslog.4.gz

lancd@Lanc0: ~$ var/log $ cd auth_log
bash: cd: auth_log: No such directory
lancd@Lanc0: ~$ var/log $
```

cant access the acceslog in my machine and i dont even use ssh so the answer for my assignment is nothing.