

# Week4 lab

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## Lab 1

```
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)
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.vorgn  wget-log  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 &
lancd@LancD:~/Documents/term2-Year2/operatingSystem/week4$
```

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.vorgn  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
lancd@LancD:~/Documents/term2-Year2/operatingSystem/week4$
Redirecting output to 'wget-log.1'.
lancd@LancD:~/Documents/term2-Year2/operatingSystem/week4$ ls
'04_Linux Process, Jobs Control, Pipelines and Redirection.pptx.pdf'  myls.txt  thelinuxcommandline.pdf  wget-log
mydelaytesting.txt  Operating-System-Concepts.pdf  viseth.vorgn  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
[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$ 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 0% [ 4.83K 20.0 B/s eta 7d 11h
```

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@lancd:~/var/log$ ls
alternatives.log  apport.log.1  auth.log.2.gz  boot.log.7  dmesg  dpkg.log.4.gz  installer  openvpn  syslog
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  bttmp  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  bttmp.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  ufw.log.1
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  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  mongodb  syslog.3.gz
apport.log  auth.log.1  boot.log.6  dist-upgrade  dpkg.log.3.gz  hp  mysql  syslog.4.gz

lancd@lancd:~/var/log$ cd auth_log
bash: cd: auth_log: No such file or directory
lancd@lancd:~/var/log$ cd auth_log
bash: cd: auth_log: Not a directory
lancd@lancd:~/var/log$ ls
alternatives.log  apport.log.1  auth.log.2.gz  boot.log.7  dmesg  dpkg.log.4.gz  installer  openvpn  syslog
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  bttmp  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  bttmp.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  ufw.log.1
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  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  mongodb  syslog.3.gz
apport.log  auth.log.1  boot.log.6  dist-upgrade  dpkg.log.3.gz  hp  mysql  syslog.4.gz

lancd@lancd:~/var/log$ cd auth_log
bash: cd: auth_log: Not a directory
lancd@lancd:~/var/log$
```

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