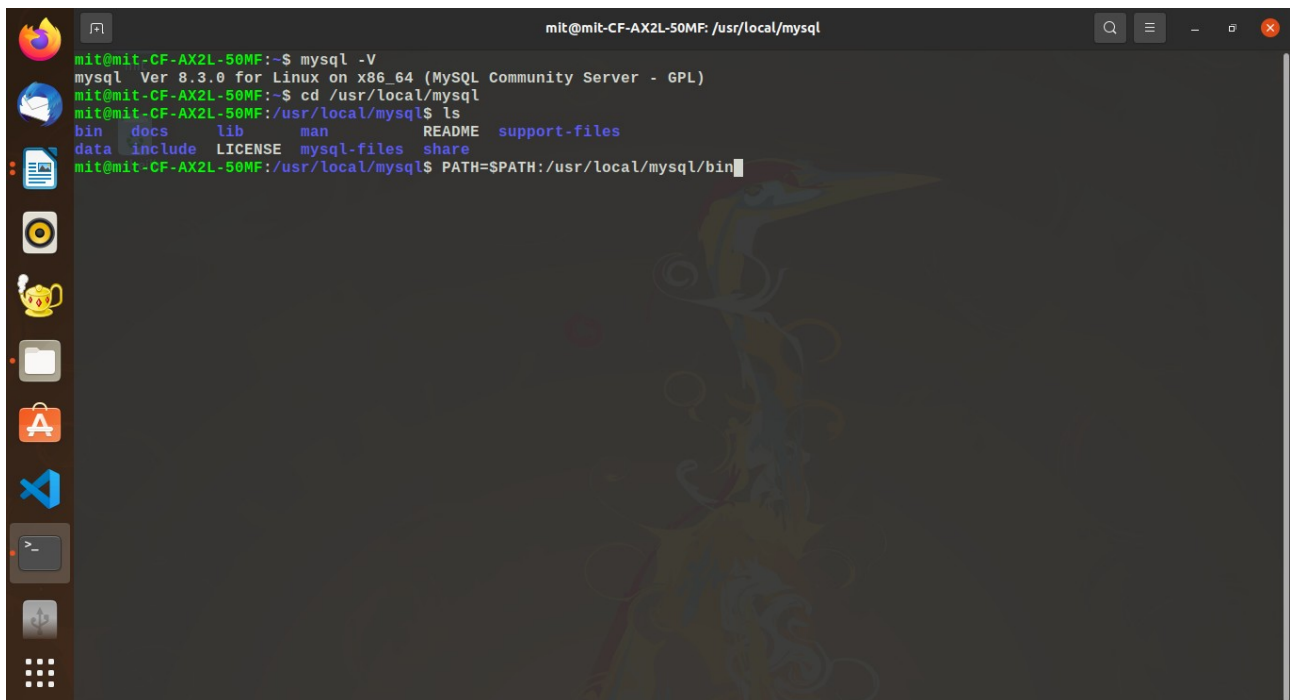


## INSTALLATION DE PAQUETS MYSQL, APACHE ET PHP À PARTIR DE CODE SOURCE

### Mysql :

- Télécharger la source mysql-8.3.0-linux-glibc2.28-x86\_64.tar.xz
- `$sudo su root`
- Se déplacer dans /usr/local :  
`#cd /usr/local`
- Décompresser mysql-8.3.0-linux-glibc2.28-x86\_64.tar.xz  
`#tar -xvf /home/mit/Documents/devoir/mysql_source/mysql-8.3.0-linux-glibc2.28-x86_64.tar.xz`
- Dépendance à installer :  
`#apt install libaio1`
- Créer un lien symbolique mysql pour mysql-8.3.0-linux-glibc2.28-x86\_64  
`#ln -s mysql-8.3.0-linux-glibc2.28-x86_64 mysql`
- se déplacer dans mysql  
`#cd mysql`
- `#mkdir mysql-files data`
- Créer d'un groupe mysql et d'un utilisateur mysql  
`#addgroup mysql`  
`#adduser mysql`  
`#chown mysql:mysql mysql-files`  
`#chmod 750 mysql-files`
- ouvrir le fichier « my.cnf » dans /etc/  
`#nano /etc/my.cnf`  
et écrire les lignes suivantes :  
`[mysqld]`  
`basedir=/usr/local/mysql`  
`datadir=/usr/local/mysql/data`  
`user=mysql`
- Initialisation :

- ```
#cd /usr/local/mysql
```
- ```
#bin/mysqld --initialize --user=mysql
```
- renforcer la sécurité d'une installation existante
- ```
#bin/mysql_secure_installation
```
- ```
#bin/mysql -u root -p
```
- mysql> # exit
- ```
#bin/mysqld --ssl_rsa_setup
```
- Exportation dans PATH
- ```
#ls -a
```
- ```
# nano .bashrc et ajouter :
```
- ```
PATH=$PATH:/usr/local/mysql/bin
```



The screenshot shows a terminal window with the following commands and output:

```
mit@mit-CF-AX2L-50MF:~$ mysql -V
mysql Ver 8.3.0 for Linux on x86_64 (MySQL Community Server - GPL)
mit@mit-CF-AX2L-50MF:~$ cd /usr/local/mysql
mit@mit-CF-AX2L-50MF:/usr/local/mysql$ ls
bin  docs  lib  man  README  support-files
data  include  LICENSE  mysql-files  share
mit@mit-CF-AX2L-50MF:/usr/local/mysql$ PATH=$PATH:/usr/local/mysql/bin
```

## Apache :

- télécharger le source: apr-1.7.4.tar.gz , apr-util-1.6.3.tar.gz , httpd-2.4.59.tar.bz2 , pcre-8.00.tar.bz2

- `$sudo su root`
- installation de `apr-1.7.4.tar.gz` :
  - décompresser le zip : `#tar -zxf apr-1.7.4.tar.gz`
  - `#cd apr-1.7.4`
  - `#./configure`
  - `#make`
  - `# make install`
- installation de `apr-util-1.6.3.tar.gz` :
  - décompresser le zip : `#tar -zxf apr-util-1.6.3.tar.gz`
  - `#cd apr-util-1.6.3`
  - `#./configure` → **ERREUR** (pas de makefile)
  - `#./configure -with -apr =/usr/local/apr-util-1.6.3`
  - `#make` : **ERREUR** libexpat
  - `# apt install libexpat1` → **error** (impossible de récupérer http...)
  - `# apt update`
  - `# apt install libexpat1`
  - `# apt install libexpat1-dev`
  - `# make`
  - `# make install`
- installation de `pcre-8.00.tar.bz2`
  - décompresser le zip : `#tar -jxvf pcre-8.00.tar.bz2`
  - `#cd pcre-8.00`
  - `#./configure`
  - `#make` → **ERREUR** (pas de makefile)
  - `#./configure -with -apr =/usr/local/apr`
  - `#make`
  - `#make install`
- installation de `httpd-2.4.59.tar.bz2`
  - décompresser le zip : `#tar -jxvf httpd-2.4.59.tar.bz2`
  - `#cd httpd-2.4.59`

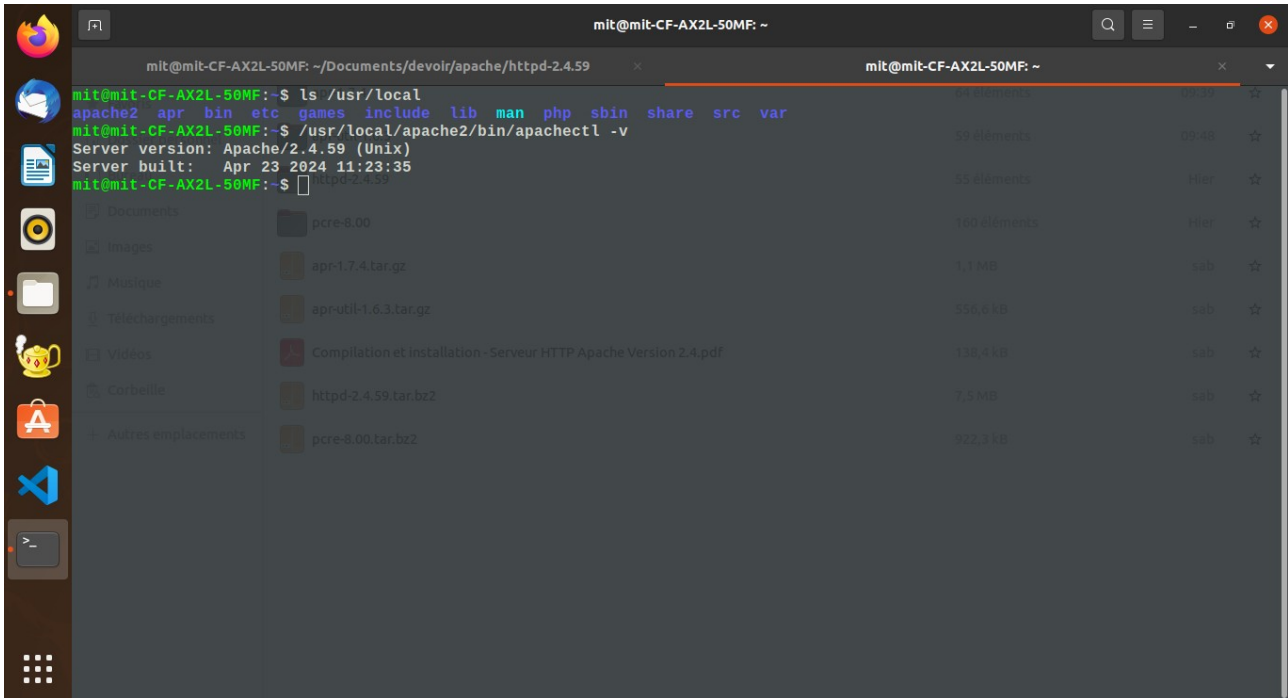
#./configure

# make → **ERREUR** (pas de makefile)

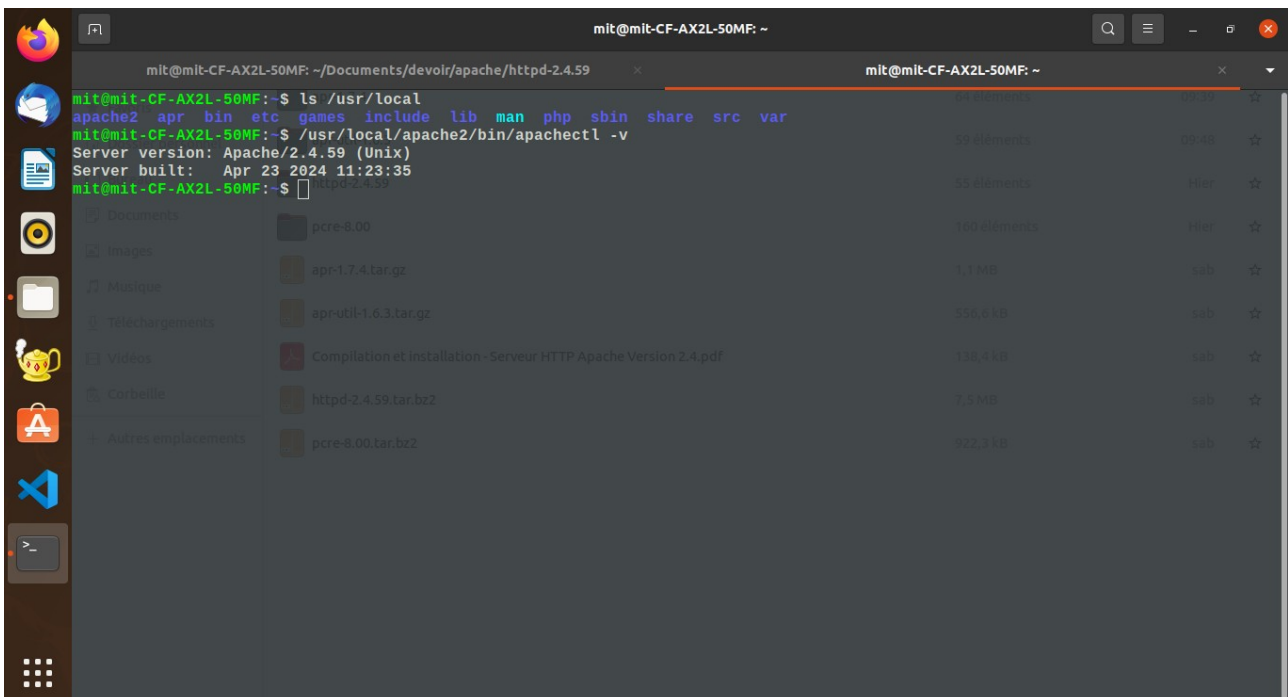
#./configure -with -apr =/usr/local/apr

#make

# make install



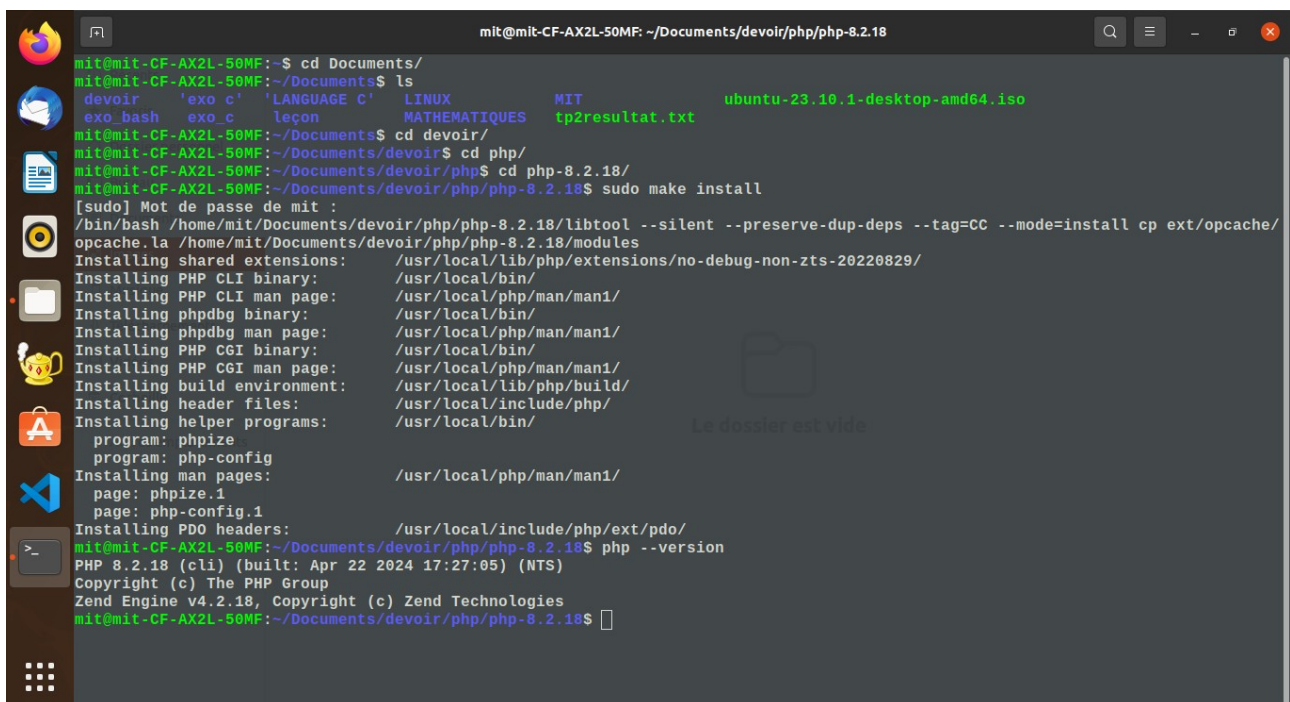
```
mit@mit-CF-AX2L-50MF:~$ ls /usr/local
apache2  apr  bin  etc  games  include  lib  man  php  sbin  share  src  var
mit@mit-CF-AX2L-50MF:~$ /usr/local/apache2/bin/apachectl -v
Server version: Apache/2.4.59 (Unix)
Server built:   Apr 23 2024 11:23:35
mit@mit-CF-AX2L-50MF:~$
```



```
mit@mit-CF-AX2L-50MF:~$ ls /usr/local
apache2  apr  bin  etc  games  include  lib  man  php  sbin  share  src  var
mit@mit-CF-AX2L-50MF:~$ /usr/local/apache2/bin/apachectl -v
Server version: Apache/2.4.59 (Unix)
Server built:   Apr 23 2024 11:23:35
mit@mit-CF-AX2L-50MF:~$
```

## PHP :

- décompresser php-8.2.18.tar.gz : `#tar -zxf php-8.2.18.tar.gz`
- `#cd php-8.2.18`
- `#./configure` → ERREUR (no package libxml -2.0)
  - ➔ `# apt install libxml2-dev`
- `#./configure` → ERREUR
  - ➔ `# apt install sqlite3-dev`
- `# make`
- `# make install`



```
mit@mit-CF-AX2L-50MF: ~/Documents/devoir/php/php-8.2.18
mit@mit-CF-AX2L-50MF:~$ cd Documents/
mit@mit-CF-AX2L-50MF:~/Documents$ ls
devoir  'exo c'  'LANGUAGE C'  LINUX  MIT  ubuntu-23.10.1-desktop-amd64.iso
exo_bash  exo_c  leçon  MATHEMATIQUES  tp2resultat.txt
mit@mit-CF-AX2L-50MF:~/Documents$ cd devoir/
mit@mit-CF-AX2L-50MF:~/Documents/devoir$ cd php/
mit@mit-CF-AX2L-50MF:~/Documents/devoir/php$ cd php-8.2.18/
mit@mit-CF-AX2L-50MF:~/Documents/devoir/php/php-8.2.18$ sudo make install
[sudo] Mot de passe de mit :
/bin/bash /home/mit/Documents/devoir/php/php-8.2.18/libtool --silent --preserve-dup-deps --tag=CC --mode=install cp ext/opcache/
opcache.la /home/mit/Documents/devoir/php/php-8.2.18/modules
Installing shared extensions:      /usr/local/lib/php/extensions/no-debug-non-zts-20220829/
Installing PHP CLI binary:         /usr/local/bin/
Installing PHP CLI man page:       /usr/local/php/man/man1/
Installing phpdbg binary:          /usr/local/bin/
Installing phpdbg man page:        /usr/local/php/man/man1/
Installing PHP CGI binary:         /usr/local/bin/
Installing PHP CGI man page:       /usr/local/php/man/man1/
Installing build environment:      /usr/local/lib/php/build/
Installing header files:           /usr/local/include/php/
Installing helper programs:        /usr/local/bin/
    program: phpize
    program: php-config
Installing man pages:              /usr/local/php/man/man1/
    page: phpize.1
    page: php-config.1
Installing PDO headers:            /usr/local/include/php/ext/pdo/
mit@mit-CF-AX2L-50MF:~/Documents/devoir/php/php-8.2.18$ php --version
PHP 8.2.18 (cli) (built: Apr 22 2024 17:27:05) (NTS)
Copyright (c) The PHP Group
Zend Engine v4.2.18, Copyright (c) Zend Technologies
mit@mit-CF-AX2L-50MF:~/Documents/devoir/php/php-8.2.18$
```

