

TP 1 : Mysql/Phpmyadmin

1)

Je m'assure que mon systeme est à jour en faisant :

`sudo apt update et upgrade.`

Après ça j'installation de mariadb :

```
pi@pi205-11:~ $ sudo apt install mariadb-server
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following packages were automatically installed and are no longer required:
  acl colord-data hplip-data libcolorhug2 libgusb2 libieee1284-3 libncurses5
  libprotobuf17 libsane-common libsnmp-base libtext-template-perl
  printer-driver-postscript-hp python-mysql.connector python-protobuf
  python3-pexpect python3-ptyprocess python3-renderpm python3-reportlab
  python3-reportlab-accel tcl update-inetd
Use 'sudo apt autoremove' to remove them.
The following additional packages will be installed:
  mariadb-client-10.3 mariadb-client-core-10.3 mariadb-server-10.3
  mariadb-server-core-10.3
Suggested packages:
  mailx mariadb-test tinycal
The following packages will be REMOVED:
  mariadb-client-10.0 mariadb-client-core-10.0 mariadb-server-core-10.0
The following NEW packages will be installed:
  mariadb-client-10.3 mariadb-client-core-10.3 mariadb-server
  mariadb-server-10.3 mariadb-server-core-10.3
0 upgraded, 5 newly installed, 3 to remove and 217 not upgraded.
6 not fully installed or removed.
Need to get 14.6 MB of archives.
```

L'instalaltion terminer je regarde si il démarre bien grace à :

`sudo systemctl status mariadb :`

```
pi@pi205-11:~ $ sudo systemctl status mariadb
● mariadb.service - MariaDB 10.3.34 database server
   Loaded: loaded (/lib/systemd/system/mariadb.service; enabled; vendor preset:
   Active: active (running) since Wed 2022-09-14 14:00:30 BST; 29s ago
     Docs: man:mysqld(8)
           https://mariadb.com/kb/en/library/systemd/
   Main PID: 9284 (mysqld)
    Status: "Taking your SQL requests now..."
     Tasks: 31 (limit: 2062)
   CGroup: /system.slice/mariadb.service
           └─9284 /usr/sbin/mysqld

Sep 14 14:00:30 pi205-11 systemd[1]: Started MariaDB 10.3.34 database server.
Sep 14 14:00:30 pi205-11 /etc/mysql/debian-start[9319]: Upgrading MySQL tables i
Sep 14 14:00:30 pi205-11 /etc/mysql/debian-start[9322]: /usr/bin/mysql_upgrade:
Sep 14 14:00:30 pi205-11 /etc/mysql/debian-start[9322]: Looking for 'mysql' as:
Sep 14 14:00:30 pi205-11 /etc/mysql/debian-start[9322]: Looking for 'mysqlcheck'
Sep 14 14:00:30 pi205-11 /etc/mysql/debian-start[9322]: This installation of Mar
Sep 14 14:00:30 pi205-11 /etc/mysql/debian-start[9322]: There is no need to run
Sep 14 14:00:30 pi205-11 /etc/mysql/debian-start[9322]: You can use --force if y
Sep 14 14:00:30 pi205-11 /etc/mysql/debian-start[9330]: Checking for insecure ro
Sep 14 14:00:30 pi205-11 /etc/mysql/debian-start[9334]: Triggering myisam-recove
```

Vu que tout vas bien, j'installe mysql :

```
pi@pi205-11:~ $ sudo mysql_secure_installation

NOTE: RUNNING ALL PARTS OF THIS SCRIPT IS RECOMMENDED FOR ALL MariaDB
SERVERS IN PRODUCTION USE! PLEASE READ EACH STEP CAREFULLY!

In order to log into MariaDB to secure it, we'll need the current
password for the root user. If you've just installed MariaDB, and
you haven't set the root password yet, the password will be blank,
so you should just press enter here.

Enter current password for root (enter for none):
OK, successfully used password, moving on...

Setting the root password ensures that nobody can log into the MariaDB
root user without the proper authorisation.

You already have a root password set, so you can safely answer 'n'.

Change the root password? [Y/n] y
New password:
Re-enter new password:
Password updated successfully!
Reloading privilege tables..
... Success!
```

L'installation terminée je vérifie les port d'écoute du service Mysql :

```
pi@pi205-11:~ $ sudo mysql
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 49
Server version: 10.3.34-MariaDB-0+deb10u1 Raspbian 10

Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

MariaDB [(none)]> SHOW GLOBAL VARIABLES LIKE 'PORT';
+-----+-----+
| Variable_name | Value |
+-----+-----+
| port          | 3306  |
+-----+-----+
1 row in set (0.006 sec)

MariaDB [(none)]> 
```

Grâce à ce check-up je sasi que mon processu mysql est bien en marche et fonction correctment.
Ou alors je peut utilisée la commande : `netstat -tlnp`

Je peut me connecter en local à mysql :

```
pi@pi205-11:~ $ sudo mysql -u root -p
Enter password:
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 52
Server version: 10.3.34-MariaDB-0+deb10u1 Raspbian 10

Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.

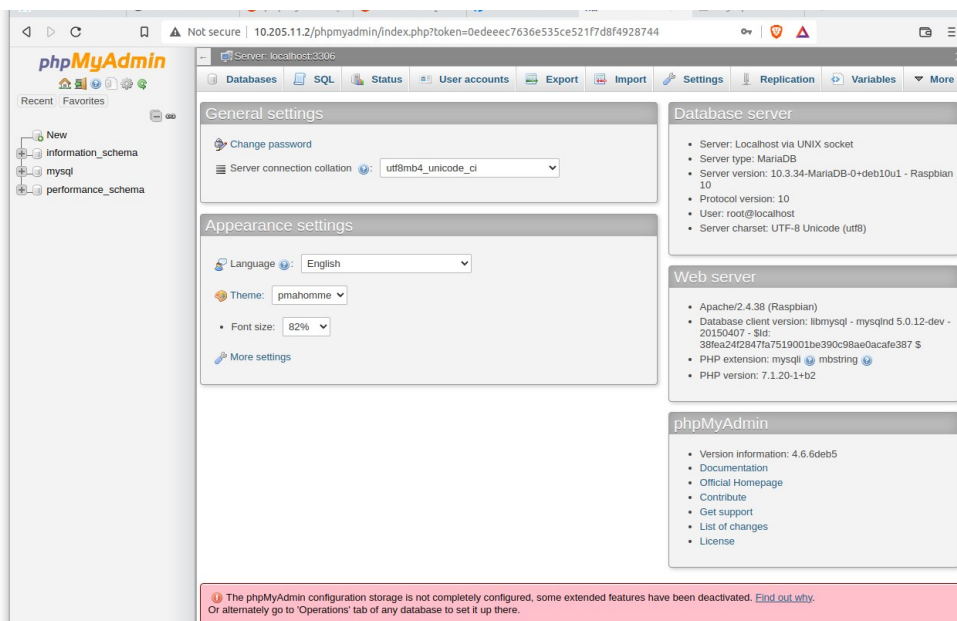
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

MariaDB [(none)]> 
```

Maintenant je met en place l'interface web mysql phpmyadmin :

```
pi@pi205-11:~ $ sudo apt install php phpmyadmin apache2
Reading package lists... Done
Building dependency tree
Reading state information... Done
apache2 is already the newest version (2.4.38-3+deb10u8).
php is already the newest version (2:7.3+69).
phpmyadmin is already the newest version (4:4.6.6-5).
The following packages were automatically installed and are no longer required:
  acl colord-data hplip-data libcolorhug2 libgusb2 libieee1284-3 libncurses5
  libprotobuf17 libsane-common libsnmp-base libtext-template-perl
  printer-driver-postscript-hp python-mysql.connector python-protobuf
  python3-pexpect python3-ptyprocess python3-renderpm python3-reportlab
  python3-reportlab-accel tcl update-inetd
Use 'sudo apt autoremove' to remove them.
0 upgraded, 0 newly installed, 0 to remove and 217 not upgraded.
pi@pi205-11:~ $ 
```

J'ai réussi à me connecter a ma base de données en interface graphique en 'root' :



Je crée la BDD vu en TD1 :

J'ai importée les deux table puis j'ai récupéré les id.

J'ai crée la premier etable avisFrancais

Pas eu le temps pour les autres table.

TP2 :

Je continu de configurer mes base de données...

Partie 2)

1) J'ouvre la conenction en ligne de le base de données en desactivant dans le fichier mariadb.conf.d>50-server.cnf>la ligne 'bind-address = 127.0.0.1' je rejoute # devant.

Ensuite je me connect à mysql et tape les deux commande suivant pour permettre la connection à BDD depuis l'extérieur :

```
mysql> use mysql ;
mysql> update db set Host='10.205.%' where Db='DBJU';
mysql> update user set Host='10.205.%' where user='DBJU';
```

2) Je crée un identifiant et le profile profdeMath avec un mots de passe facile :

create user 'profdeMath'@'10.205.%' identified by 'test' ;

3) Je m'y connect via mon pc, 'mysql -u profdeMath -p -h 10.205.13.2' :

13987	1194.8123688...	10.205.13.2	10.205.13.1	MySQL	142	Server Greeting	Error	1130
14963	1478.6397613...	10.205.13.2	10.205.13.1	MySQL	142	Server Greeting	Error	1130
14984	1484.2287457...	10.205.13.2	10.205.13.1	MySQL	142	Server Greeting	Error	1130
14998	1490.5454853...	10.205.13.2	10.205.13.1	MySQL	142	Server Greeting	Error	1130
15041	1505.1083747...	10.205.13.2	10.205.13.1	MySQL	142	Server Greeting	Error	1130
15056	1508.5791823...	10.205.13.2	10.205.13.1	MySQL	142	Server Greeting	Error	1130
15735	1570.7091525...	10.205.13.2	10.205.13.1	MySQL	142	Server Greeting	Error	1130
16238	1676.6154216...	10.205.13.2	10.205.13.1	MySQL	171	Server Greeting	proto=10 ver	
16240	1676.6155027...	10.205.13.1	10.205.13.2	MySQL	280	Login Request	user=test	
16242	1676.6163255...	10.205.13.2	10.205.13.1	MySQL	79	Response	OK	
16244	1676.6168371...	10.205.13.1	10.205.13.2	MySQL	105	Request	Query	
16246	1676.6180925...	10.205.13.2	10.205.13.1	MySQL	150	Response	TABULAR Response	

```
► Frame 16240: 280 bytes on wire (2240 bits), 280 bytes captured (2240 bits) on interface any, id 0
► Linux cooked capture v1
► Internet Protocol Version 4, Src: 10.205.13.1, Dst: 10.205.13.2
► Transmission Control Protocol, Src Port: 59934, Dst Port: 3306, Seq: 1, Ack: 104, Len: 212
► MySQL Protocol
```

```
0020  0a cd 0d 02 ea 1e 0c ea 04 bb f6 04 0a ca 21 60  ....!
0030  80 18 01 f6 30 97 00 00 01 01 08 0a 92 4a ad 6a  ...0...J.
0040  ff 58 b9 ea d0 00 00 01 84 a6 ff 20 00 00 00 01  .X.....
0050  21 00 00 00 00 00 00 00 00 00 00 00 00 00 00  !.....
0060  00 00 00 00 05 00 00 00 74 65 73 74 00 14 0a fc  ....test...
0070  4e 9e b8 70 9f 0a 59 30 1e fc ba f5 79 6a 02 22  N..p..Y0...yj..
0080  7c 5c 6d 79 73 71 6c 5f 6e 61 74 69 76 65 5f 70  |mysql_native_p
0090  61 73 73 77 6f 72 64 00 7f 03 5f 6f 73 05 4c 69  assword:..os.Li
00a0  6e 75 78 0c 5f 63 6c 69 65 6e 74 5f 6e 61 6d 65  nux_cli ent_name
00b0  0a 6c 69 62 6d 61 72 69 61 64 62 04 5f 70 69 64  libmari adb_pid
00c0  04 39 35 38 37 0f 5f 63 6c 69 65 6e 74 5f 76 65  .9587..c lient_ve
00d0  72 73 69 6f 6e 05 33 2e 32 2e 36 09 5f 70 6c 61  rsion 3. 2.6 pla
00e0  74 66 6f 72 6d 06 78 38 36 5f 36 34 0c 70 72 6f  tform x8 6_64 pro
00f0  67 72 61 6d 5f 6e 61 6d 65 05 6d 79 73 71 6c 0c  gram_nam e mysql
0100  5f 73 65 72 76 65 72 5f 68 6f 73 74 0b 31 30 2e  _server_ host 10.
```

4) Je capture avec wireshark la transmission :

On peut voir que tout passe en clair, comme lors de cette connection avec l'utilisateur profdeMath et sont mot de passe 'test'. La sécurité est innexistante.

5)

Je me suis renseigné sur le fonctionnement des de la connexion chiffré ssl , malheureusement a cause de la reconfiguration du RPI j'ai perdu du temps et je n'ai pas pu commencé la parti 3.