

# My Authentication Platform (V1)



# Aim of this project

- Do a NodeJS project
- Use SQL database
- LAMP / WAMP / MAMP
- PhpMyAdmin
- Create a system of authentication



# First Step: Install LAMP / WAMP / MAMP

- Search what is LAMP / WAMP / MAMP
- Install the most appropriate for your system
- check if it's working properly



## Second Step: Install PhPMyAdmin

- As the title said, install PhPMyAdmin and test if it's work properly with your system.
- You should be able to see something as the screenshot below.



**phpMyAdmin**

Récentes Préréfées

- Nouvelle base de données
- auth\_jwt\_pure\_sql
- information\_schema
- mysql
- performance\_schema
- phpmyadmin
- sys

Serveur: localhost:3306

Bases de données SQL État Comptes d'utilisateurs Export Import Paramètres Réplication Variables Jeux de caractères plus

### Paramètres généraux

[Modifier le mot de passe](#)

Interclassement pour la connexion au serveur : utf8mb4\_unicode\_ci

### Paramètres d'affichage

Langue - Language : Français - French

Thème : pmahomme

- Taille du texte: 92%

[Plus de paramètres](#)

### Serveur de base de données

- Serveur : Localhost via UNIX socket
- Type de serveur : MySQL
- Version du serveur : 5.7.31-0ubuntu0.18.04.1 - (Ubuntu)
- Version du protocole : 10
- Utilisateur : admin@localhost
- Jeu de caractères du serveur : UTF-8 Unicode (utf8)

### Serveur web

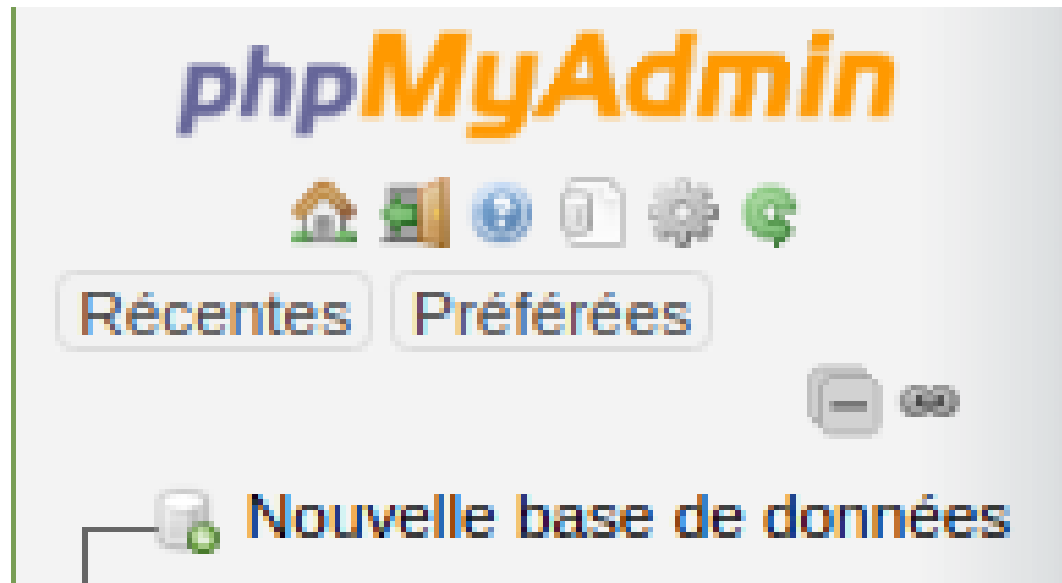
- Apache/2.4.29 (Ubuntu)
- Version du client de base de données : libmysql - mysqlnd 5.0.12-dev - 20150407 - \$Id: 3591daad22de08524295e1bd073aceeff11e6579 \$
- Extension PHP : mysqli mbstring
- Version de PHP : 7.2.24-0ubuntu0.18.04.6

### phpMyAdmin

- Version : 4.6.6deb5
- [Documentation](#)
- [Site officiel](#)
- [Contribuer](#)
- [Obtenir de l'aide](#)
- [Liste des changements](#)
- [Licence](#)

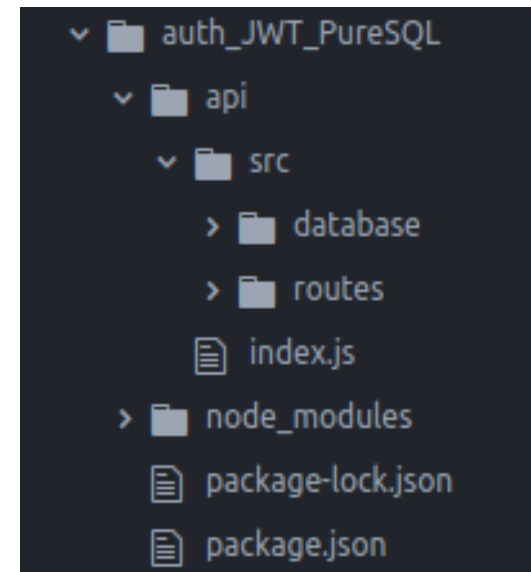
## Third Step: Create a database

- On the PhPMyAdmin interface you will create a new bdd.



# Fourth Step: Create your api

- For this step help you of modules: `express` / `mysql2`
- We want you cut your project by modules.  
That's would mean you should have your 'api.js' file on the root of your project. But you should also have one module who contain your routes and one module who contain your implementation of `mysql2`
- Look all the slides of the Fourth Step !!



# Fourth Step: Create your api

- It's now time to create your API !
  - Your API will have two routes: 'sign-up' & 'sign-in'
  - 'sign-up' will register a new user on your database.
  - 'sign-up' will have three fields: 'name', 'email' and 'password'. Use these fields for register your new user in database
  - 'sign-in' will authenticate a registred user. For authenticate your user you will need the email & password of your user. If you can authenticate a user 'sign-in' will respond: "you are authenticated"
- otherwise, if you can't authenticate it it will respond: "Sorry, we don't know this user"












# Fourth Step: Create your api

- Test if all works with Postman !
- In your Database we should see something like that :

+ Options

				id	name	email	password
<input type="checkbox"/>	 Modifier	 Copier	 Effacer	3	Laury	laury.meurice@laposte.net	chat
<input type="checkbox"/>	 Modifier	 Copier	 Effacer	4	Pedro	pedro.meurice@laposte.net	lapin
<input type="checkbox"/>	 Modifier	 Copier	 Effacer	6	Alban	alban.meurice@hotmail.fr	dinosaure



# Fifth Step: Hash password !

- In this state we have a big security trouble ! Indeed we save the password of our user in clear on the database !
- Add bcrypt to your project.
- Save the "hash" password of your user and use also this "hash" for recognize your user when he sign-in !



				id	name	email	password
<input type="checkbox"/>	Modifier	Copier	Effacer	8	Alban	alban.meurice@hotmail.fr	\$2b\$10\$LbBVSxG4xkT9TuPoxNA8luMxx.r0Bwgv2iwlQ/4sAHQ...
<input type="checkbox"/>	Modifier	Copier	Effacer	9	Thomas	alban.meurice@hotmail.fr	\$2b\$10\$g/K48zm.l0rHWcmXTLxGFuxUcQ4M1oV4q4JWo1JVLSH...
<input type="checkbox"/>	Modifier	Copier	Effacer	10	Arnaud	arnaud@hotmail.fr	\$2b\$10\$9dEb4Y.C39NLDqINqPiHZeggeHfTwKu9NJFOw8i7Pgo...

