Livrable Attendu

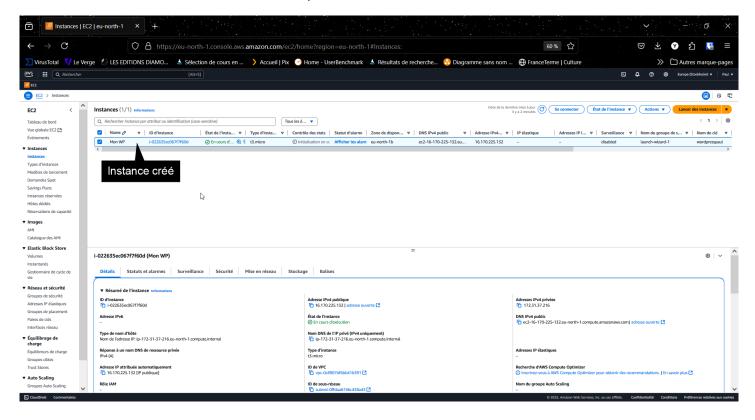
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Cette procédure à pour objectif de montrer comment je suis arrivé pas à pas à installer une instance sur AWS, installer un serveur WEB, installer MariaDB et création d'une base de données donc mon serveur LAMP pour héberger Word Press.

1. Création de l'instance sur AWS

L'instance que j'ai créée à pour but d'héberger mon serveur LAMP, on y retrouve différentes informations dont nous aurons besoin par la suite.



2. Installation d'Apache2

Apache2 est un serveur WEB qui va nous permettre d'héberger notre site WEB. Nous pouvons voir que j'ai utilisé une version 2.4.62 d'Apache.

```
(Reading database ... 29492 files and directories currently installed.)

Preparing to unpack ..., //tridata_2025b-04-0645121_sli_dos ...

Ourrent default time zone: fttr/UTC

Local time to now: Mon far sli_541:57 UTC 2025.

Universal Time to now: Mon far sli_541:57 UTC 2025.

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Universal Time to now: Mon far sli_54
```

3. Installation php 8.2.28

```
Creating config file /etc/php/8.2/mods-available/zip.ini with new version
Setting up fontconfig (2.14.1-4) ...

Creating config file /etc/php/8.2/mods-available/mbstring.ini with new version
Setting up plubherIi:amd64 (1.15.1-14/debl2ul) ...
Setting up plubherIi:amd64 (1.15.1-14/debl2ul) ...
Setting up plubherIi:amd64 (1.15.1-14/debl2ul) ...
Setting up plub-astering (2.2.86-1-debl2ul) ...
Setting up plub.2-aml (8.2.2.86-1-debl2ul) ...
Setting up plub.2-aml (8.2.2.86-1-debl2ul) ...
Setting up plub.2-aml (8.2.2.86-1-debl2ul) ...

Creating config file /etc/php/8.2/mods-available/sml.ini with new version

Creating config file /etc/php/8.2/mods-available/sml.vini with new version

Creating config file /etc/php/8.2/mods-available/smlveiter.ini with new version

Creating config file /etc/php/8.2/mods-available/smlveiter.ini with new version

Creating config file /etc/php/8.2/mods-available/smlveiter.ini with new version

Setting up php-zin (2:8.2+93) ...

Setting up php-zin (2:8.2+93) ...

Setting up php-per (1:1.1-8)H-submodules+notgz+2022032202-2) ...

Processing triggers for libapache2-mod-php8.2 (8.2.28-1-debl2ul) ...

Processing triggers for splich-base (1.31) ...

Setting up plub.2-gd (8.2.28-1-debl2ul) ...

Setting up php8.2-gd (8.2.28-1-debl2ul) ...

Setting up php8.2-gd (8.2.28-1-debl2ul) ...

Setting up php8.2-gd (8.2.28-1-debl2ul) ...

Creating config file /etc/php/8.2/mods-available/gd.ini with new version

Setting up php8.2-gd (8.2.28-1-debl2ul) ...

Processing triggers for libapache2-mod-php8.2 (8.2.2-debl2ul) ...

Processing triggers for libap
```

4. Installation MariaDB Server

Maintenant l'installation de la base de donnée, j'ai choisi MariaDB en version 15.1.

```
By default, a MariaDB installation has an anonymous user, allowing anyone to log into MariaDB without having to have a user account created for them. This is intended only for testing, and to make the installation go a bit smoother. You should remove them before moving into a production environment.

Remove anonymous users? [Y/n] Y
...Success!

Normally, root should only be allowed to connect from 'localhost'. This ensures that someone cannot guess at the root password from the network.

Disallow root login remotely? [Y/n]
...Success!

Disallow root login remotely? [Y/n]
...Success!

Sy default, MariaDB comes with a database named 'test' that anyone can access. This is also intended only for testing, and should be removed before moving into a production environment.

Remove test database and access to it? [Y/n]
- propping test database...
...Success!

Removing privileges on test database...
...Success!

Reloading the privilege tables will ensure that all changes made so far will take effect immediately.

Reload privilege tables now? [Y/n]
...Success!

Cleaning up...

All dane! If you've completed all of the above steps, your MariaDB installation should now be secure.

Thanks for using MariaDB!
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```

5. Création de la base donnée

Une fois MariaDB, je créer la base de donnée pour word press ainsi qu'un utilisateur administrateur pour cette base de donnée ensuite nous lui donnons tous les droits sur cette base de donnée.

```
admin@ip-172-31-47-133:/tmp$ mysql -u root -p
Enter password:
Welcome to the MariaDB monitor. Commands end with ; or \g.
Your MariaDB connection id is 39
Server version: 10.11.11-MariaDB-0+deb12u1 Debian 12
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)]> create database wordpress_ais;
Query OK, 1 row affected (0.000 sec)

MariaDB [(none)]> CREATE USER amin_paul@localhost IDENTIFIED BY '
Query OK, 0 rows affected (0.002 sec)

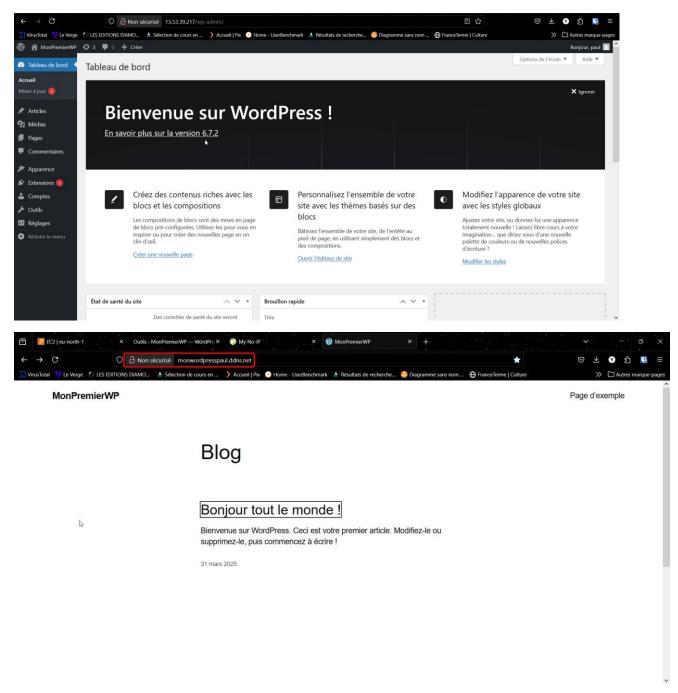
MariaDB [(none)]> GRANT ALL PRIVILEGES ON wordpress.* TO admin_paul@localhost IDENTIFIED BY "
Query OK, 0 rows affected (0.001 sec)

MariaDB [(none)]> FLUSH PRIVILEGES;
Query OK, 0 rows affected (0.000 sec)

MariaDB [(none)]> EXIT;
Bye
Badmin@ip-172-31-47-133:/tmp$
```

6. WordPress est installé sans certificat

Installation de WordPress (j'ai oublié de prendre les commandes en screen...) pour installer WordPress il est nécessaire de le télécharger l'archive ensuite de le décompresser dans /var/www/html



Pour le DNS j'ai choisi d'utiliser « No Ip » qui m'a permis de pointer l'adresse IP du serveur avec un nom de domaine.

7. Déploiement du certificat avec le client Certbot + Certificat Let's Encrypt

Pour le déploiement du certificat, j'ai décidé d'utiliser le client Certbot, je ne connaissais pas certbot alors j'ai effectué quelques recherches concernant celui-ci. J'ai appris qu'il permettait d'automatiser la configuration de certificats pour des sites internet et qui utilise « Let's Encrypt ».

```
Processing triggers for labch in (23.6-detail2010) ...

Processing triggers for labch in (23.6-detail2010) ...

adminipi-172-31-47-313-4, Sudo certbot --speche ad monordpresspaul.ddms.net

Saving debug log to /var/log/letsencrypt/letsencrypt.log

Enter email address (used for urgent renewal and security notices)

(Enter 'c' to cancel): vapaul@hotmail.fr

Please read the Terms of Service at the Labch in 18.6-detail2010 ...

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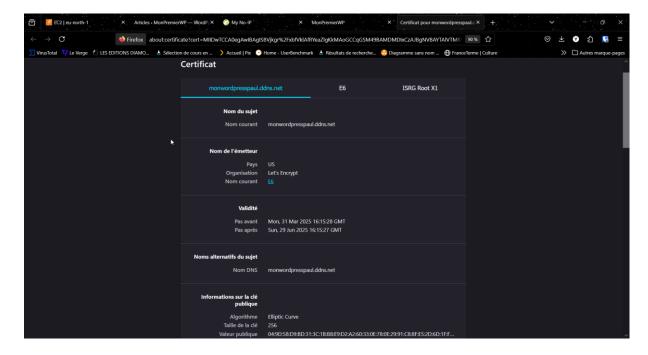
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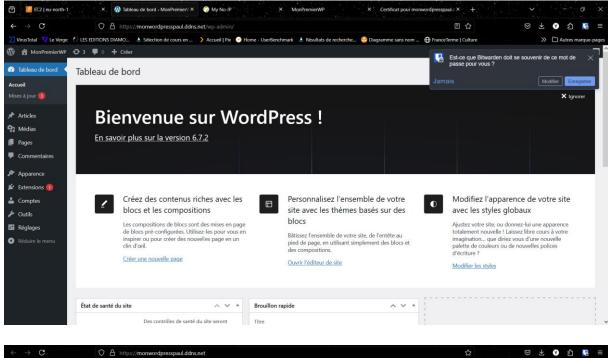
Please read the Terms of Service at the Labch in 18.6-detail ...

Please read the Terms of Service ..
```



8. Et voilà le Backoffice du CMS

Une fois le certificat configuré nous revoila sur le backoffice et la page WEB avec le certificat.





9. Vous trouverez ci-dessous le lien pointant vers mon WordPress https://monwordpresspaul.ddns.net

10. Défis de cybersécurité avec RootMe

Voici la capture d'écran avec mon score total sur RootMe

