ESERCIZIO - W8D2

- Effettuo l'installazione di MySql Database e Web Server Apache tramite terminale da Kali.

```
┌──(root㉿kali)-[~]
└─# apt install mysql -y
Reading package lists ... Done
Building dependency tree ... Done
Reading state information ... Done
E: Unable to locate package mysql

┌──(root㉿kali)-[~]
└─# service mysql start

┌──(root㉿kali)-[~]
└─# service mysql status
```

```
● mariadb.service - MariaDB 10.5.12 database server
     Loaded: loaded (/lib/systemd/system/mariadb.service; >
     Active: active (running) since Fri 2022-07-22 05:51:5>
       Docs: man:mariadbd(8)
             https://mariadb.com/kb/en/library/systemd/
    Process: 1421 ExecStartPre=/usr/bin/install -m 755 -o >
    Process: 1422 ExecStartPre=/bin/sh -c systemctl unset->
    Process: 1424 ExecStartPre=/bin/sh -c [ ! -e /usr/bin/>
    Process: 1487 ExecStartPost=/bin/sh -c systemctl unset>
    Process: 1489 ExecStartPost=/etc/mysql/debian-start (c>
   Main PID: 1471 (mariadbd)
     Status: "Taking your SQL requests now..."
      Tasks: 15 (limit: 5154)
     Memory: 112.5M
        CPU: 558ms
     CGroup: /system.slice/mariadb.service
             └─1471 /usr/sbin/mariadbd
```

```
sudo apt install apache2
```

```
sudo service apache2 start
sudo service apache2 status
```

- Questi sono i primi passaggi per soddisfare i requirements dell' esercizio.

- Inseriamo i vari comandi dati dall'esercizio in ordine e cambiamo l'user e la password in kali, kali come quelle del nostro sistema operativo.

- cd /var/www/html
- git clone https://github.com/digininja/DVWA
- chmod –R 777 DVWA/
- cd DVWA/config
- cp config.inc.php.dist config.inc.php
- nano config.inc.php

```
DVWA[ 'db_database' ] = 'dvwa';
DVWA[ 'db_user' ]     = 'kali';
DVWA[ 'db_password' ] = 'kali';
DVWA[ 'db_port'] = '3306';
```

- Utilizziamo poi i comandi mysql start e successivamente mysql -u root -p ricordandoci che l'utente e password sono state cambiate .

```
root@
File  Actions  Edit  View  Help

┌──(root㉿kali)-[~]
└─# service mysql start

┌──(root㉿kali)-[~]
└─# mysql -u root -p
Enter password:
Welcome to the MariaDB monitor.  Commands end with
Your MariaDB connection id is 44
Server version: 10.5.12-MariaDB-1 Debian 11

Copyright (c) 2000, 2018, Oracle, MariaDB Corporat

Type 'help;' or '\h' for help. Type '\c' to clear

MariaDB [(none)]>
```

```
File  Actions  Edit  View  Help

┌──(root㉿kali)-[~]
└─# mysql -u root -p
Enter password:
Welcome to the MariaDB monitor.  Commands end with
Your MariaDB connection id is 45
Server version: 10.5.12-MariaDB-1 Debian 11

Copyright (c) 2000, 2018, Oracle, MariaDB Corporat

Type 'help;' or '\h' for help. Type '\c' to clear

MariaDB [(none)]> create user 'kali'@'127.0.0.1' i
Query OK, 0 rows affected (0.005 sec)

MariaDB [(none)]> grant all privileges on dvwa.* t
Query OK, 0 rows affected (0.004 sec)

MariaDB [(none)]> exit
Bye

┌──(root㉿kali)-[~]
└─#
```

- Creiamo un user con il comando :

create user 'kali'@'127.0.0.1' identified by 'kali';

successivamente assegnamo i privilegi all'utente kali con il seguente comando:

grant all privileges on dvwa.* to 'kali'@'127.0.0.1' identified by 'kali'; e usciamo con il comando exit.

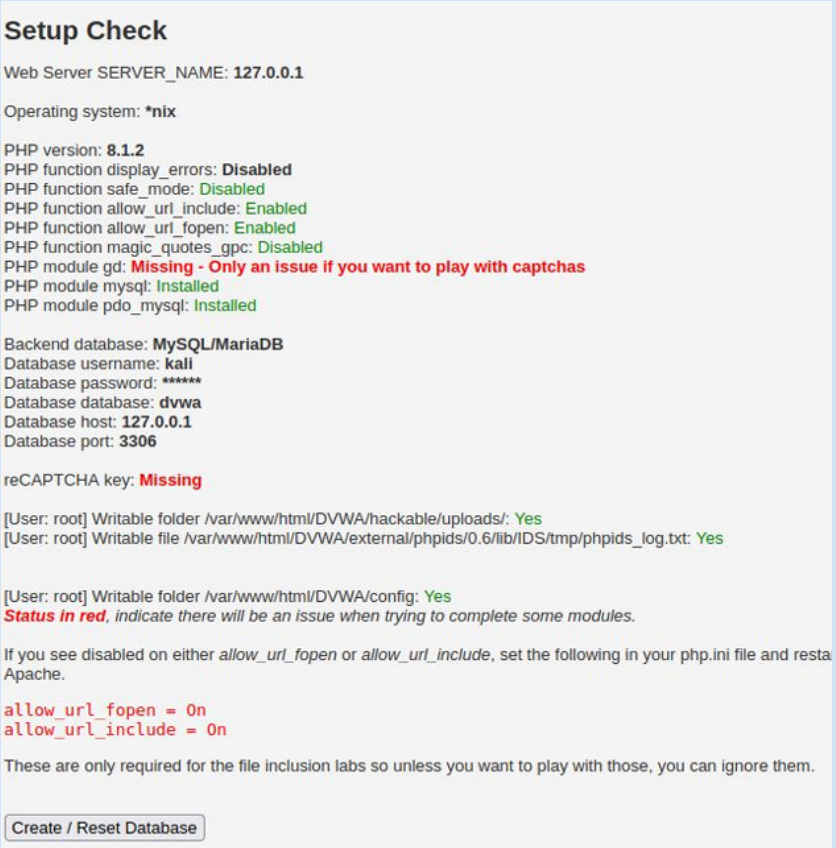
```
; Whether to allow the treatment of URLs (like http:// or ftp://) as files.
; https://php.net/allow-url-fopen
allow_url_fopen = On

; Whether to allow include/require to open URLs (like https:// or ftp://) as files.
; https://php.net/allow-url-include
allow_url_include = On
```

- Avviamo Apache con il comando service apache2 start e ci spostiamo nella cartella /etc/php/8.2/apache2 con il comando :

cd /etc/php.8.2/apache2

- Successivamente cambiamo le impostazioni come sopra e rimandiamo il comando service apache2 start .

- Attraverso il browser andiamo all'inidirizzo 127.0.0.1/DVWA/setup.php dal quale possiamo create/resettare il database.



Setup Check

Web Server SERVER_NAME: **127.0.0.1**

Operating system: ***nix**

PHP version: **8.1.2**
PHP function display_errors: **Disabled**
PHP function safe_mode: Disabled
PHP function allow_url_include: Enabled
PHP function allow_url_fopen: Enabled
PHP function magic_quotes_gpc: Disabled
PHP module gd: **Missing - Only an issue if you want to play with captchas**
PHP module mysql: Installed
PHP module pdo_mysql: Installed

Backend database: **MySQL/MariaDB**
Database username: **kali**
Database password: ******
Database database: **dvwa**
Database host: **127.0.0.1**
Database port: **3306**

reCAPTCHA key: **Missing**

[User: root] Writable folder /var/www/html/DVWA/hackable/uploads/: Yes
[User: root] Writable file /var/www/html/DVWA/external/phpids/0.6/lib/IDS/tmp/phpids_log.txt: Yes

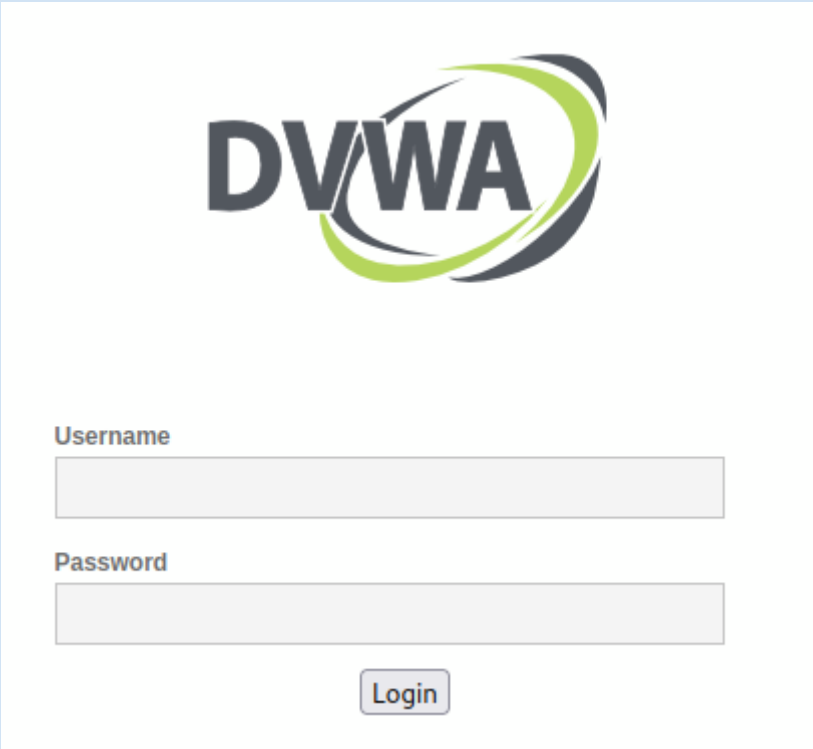
[User: root] Writable folder /var/www/html/DVWA/config: Yes
***Status in red**, indicate there will be an issue when trying to complete some modules.*

If you see disabled on either *allow_url_fopen* or *allow_url_include*, set the following in your php.ini file and resta
Apache.

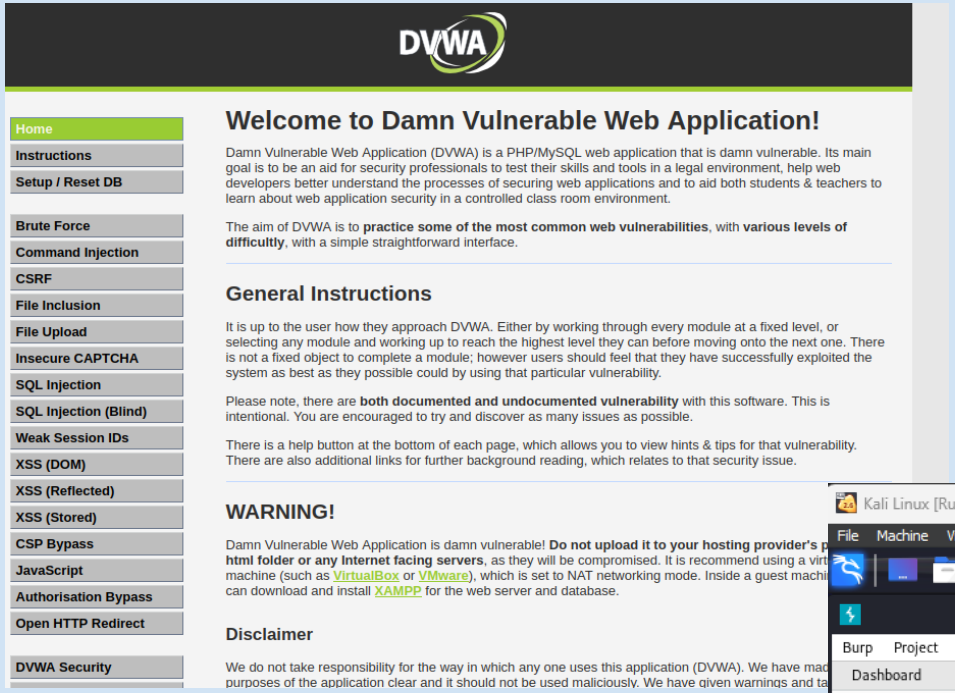
```
allow_url_fopen = On
allow_url_include = On
```

These are only required for the file inclusion labs so unless you want to play with those, you can ignore them.

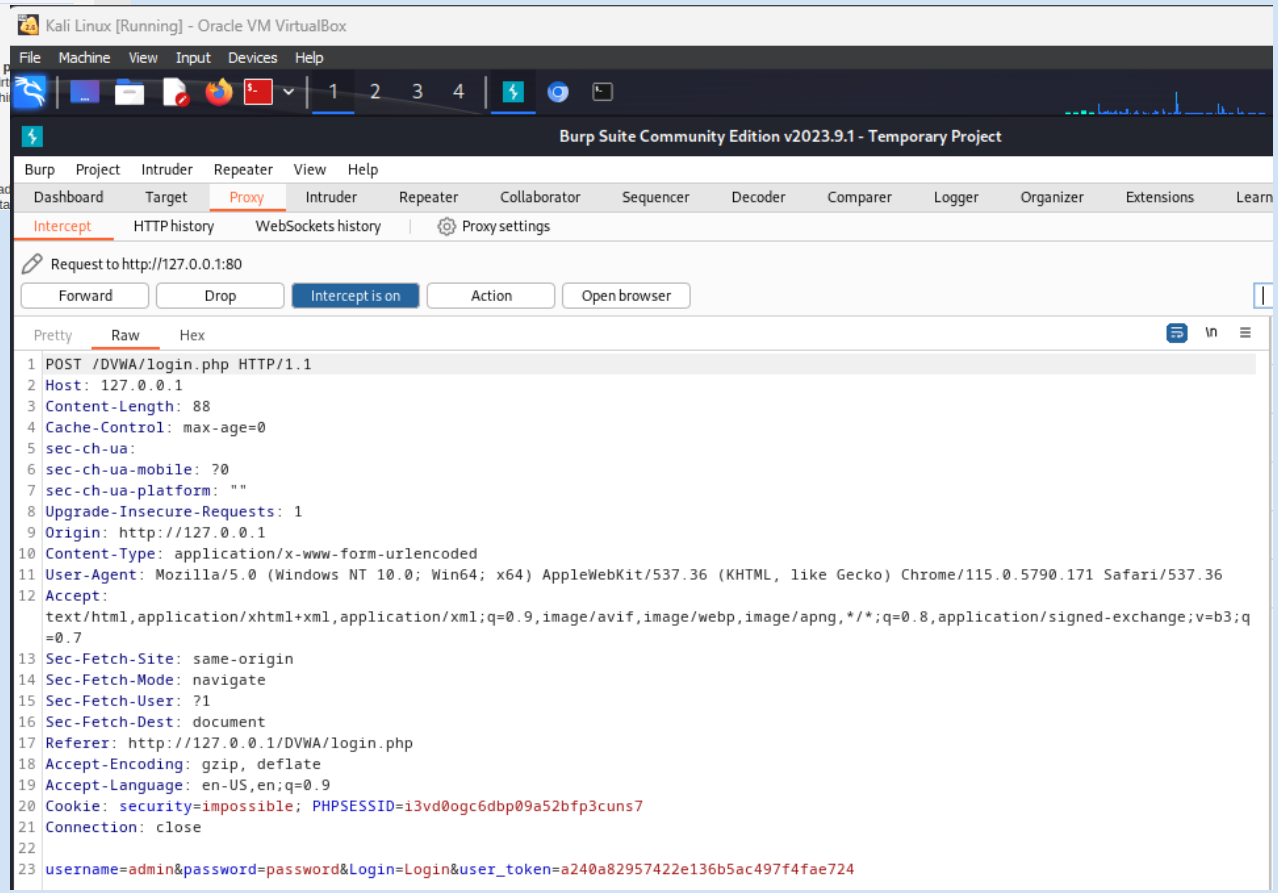
Create / Reset Database

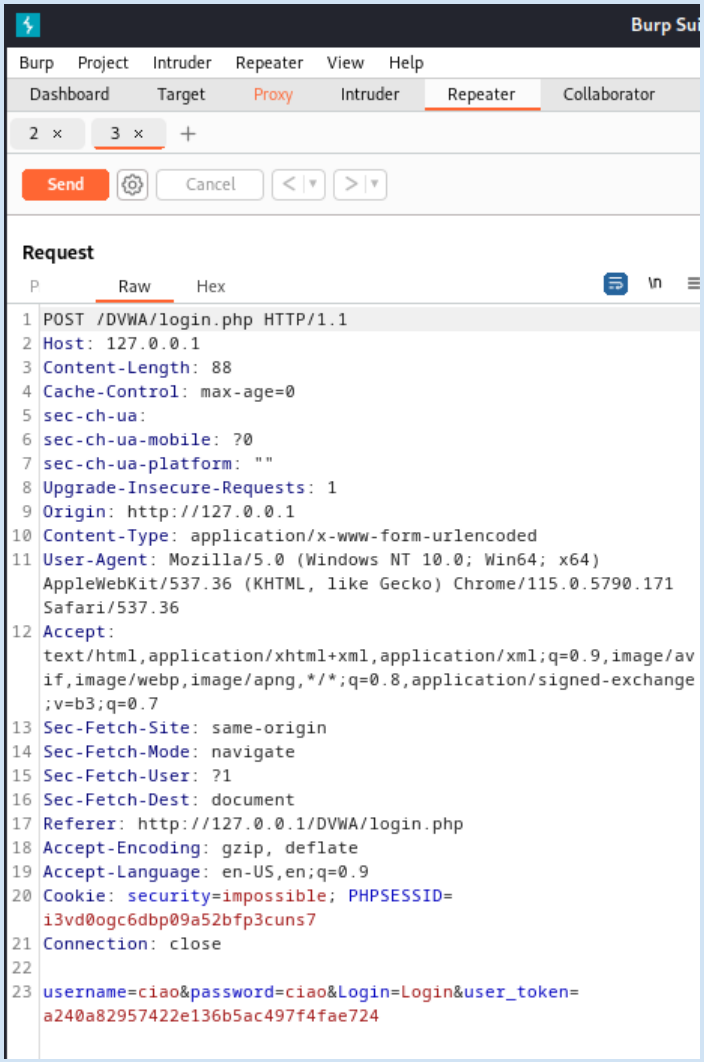


- Inseriamo quindi Username e password che avevamo in precedenza e dovremmo ottenere la seguente schermata del nostro sito DVWA.



- Questo è il risultato che andremmo a ottenere e quindi procediamo con l' intercettazione tramite proxy su Burp Suite.





- Dopo aver effettuato l'intercettazione tramite proxy cambiamo l'username e la password ed effettiamo il trasferimento verso il Repeater tramite il quale faremo "Send" e successivamente "Follow Redirection".