DVWA SETUP

Setting up DVWA (Damn Vulnerable Web Application) on Kali Linux involves a few steps. DVWA is a PHP/MySQL web application that is intentionally vulnerable to help security professionals test their skills and tools in a legal environment. Here is a step-by-step guide to setting up DVWA on Kali Linux:

1. **Update Kali Linux:**
   Open a terminal and run the following commands to update your system:
   sudo apt update
   sudo apt upgrade

2. **Navigate to the web directory**

```
┌──(kali㉿kali)-[~]
└─$ cd /var/www/html

┌──(kali㉿kali)-[/var/www/html]
└─$ pwd
/var/www/html
```

3. **Download DVWA.**

```
┌──(kali㉿kali)-[/var/www/html]
└─$ sudo git clone https://github.com/digininja/DVWA.git
Cloning into 'DVWA'...
remote: Enumerating objects: 4514, done.
remote: Counting objects: 100% (64/64), done.
remote: Compressing objects: 100% (53/53), done.
remote: Total 4514 (delta 23), reused 42 (delta 10), pack-reused 4450
Receiving objects: 100% (4514/4514), 2.30 MiB | 3.38 MiB/s, done.
Resolving deltas: 100% (2118/2118), done.
```

4. **Set Permissions**: Change the ownership of the DVWA directory.

```
┌──(kali㉿kali)-[/var/www/html]
└─$ sudo chmod -R 777 DVWA
```

5. **Configure DVWA**: Navigate to the DVWA directory and copy the sample configuration file.

```
┌──(kali㉿kali)-[/var/www/html/DVWA/config]
└─$ ls
config.inc.php.dist

┌──(kali㉿kali)-[/var/www/html/DVWA/config]
└─$ sudo cp config.inc.php.dist config.inc.php

┌──(kali㉿kali)-[/var/www/html/DVWA/config]
└─$ ls
config.inc.php  config.inc.php.dist
```

6. Edit the config.inc.php file by nano editor:

```
┌──(kali㉿kali)-[/var/www/html/DVWA/config]
└─$ sudo nano config.inc.php
```

7. Update the database settings as follows:

```
$_DVWA = array();
$_DVWA[ 'db_server' ]   = getenv('DB_SERVER') ?: '127.0.0.1';
$_DVWA[ 'db_database' ] = 'dvwa';
$_DVWA[ 'db_user' ]     = 'dvwa';
$_DVWA[ 'db_password' ] = 'p@ssw0rd';
$_DVWA[ 'db_port']      = '3306';

# ReCAPTCHA settings
```

```
$_DVWA = array();
$_DVWA[ 'db_server' ]   = getenv('DB_SERVER') ?: '127.0.0.1';
$_DVWA[ 'db_database' ] = 'dvwa';
$_DVWA[ 'db_user' ]     = 'admin';
$_DVWA[ 'db_password' ] = 'password';
$_DVWA[ 'db_port']      = '3306';
```

8. **Configure MySQL:**
   Start the MySQL service and log in to MySQL and create the database and user for DVWA.

```
┌──(kali㉿kali)-[/var/www/html/DVWA/config]
└─$ sudo service mysql start

┌──(kali㉿kali)-[/var/www/html/DVWA/config]
└─$ sudo mysql -u root -p
Enter password:
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 33
Server version: 10.11.6-MariaDB-2 Debian n/a

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 dvwa;
```

Inside the MySQL prompt, run:

CREATE DATABASE dvwa;

CREATE USER 'dvwa'@'localhost' IDENTIFIED BY 'password';

GRANT ALL PRIVILEGES ON dvwa.* TO 'dvwa'@'localhost';

FLUSH PRIVILEGES.

EXIT.

```
MariaDB [(none)]> create database dvwa;
Query OK, 1 row affected (1.586 sec)

MariaDB [(none)]> create user 'admin'@'127.0.0.1' identified by 'password';
Query OK, 0 rows affected (0.011 sec)

MariaDB [(none)]> grant all privileges on dvwa.* to 'admin'@'127.0.0.1';
Query OK, 0 rows affected (0.001 sec)
```

9. **Start Apache**:
   Start the Apache service.

```
┌──(kali㉿kali)-[/var/www/html/DVWA/config]
└─$ sudo service apache2 start

┌──(kali㉿kali)-[/var/www/html/DVWA/config]
└─$ sudo nano /etc/php/8.1/apache2/php.ini
```

10. **Edit php file by nano editor**
    sudo nano /etc/php/8.2/apache2/php.ini

```
┌──(kali㉿kali)-[~]
└─$ sudo nano /etc/php/8.2/apache2/php.ini
```

On both the url

```
;;;;;;;;;;;;;;;;;;
; Fopen wrappers ;
;;;;;;;;;;;;;;;;;;

; 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
```

```
┌──(kali㉿kali)-[~]
└─$ sudo service apache2 reload
```

11. **Login to DVWA**:
    After the database setup, navigate to http://localhost/DVWA/login.php and use the default credentials: