

Practical 5

Implement SQL Injection and XSS using DVWA in Kali Linux

```
Kali-Linux-2021.2-virtualbox-amd64 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
root@kali: /var/www/html - dvwa
root@kali: /var/www/html/dvwa/config

(kali@kali) (/var/www/html)
$ ls
DVWA index.html index.nginx-debian.html
$ mv DVWA dvwa
mv: cannot move 'DVWA' to 'dvwa': Permission denied
$ sudo su
(root@kali) (/var/www/html)
$ mv DVWA dvwa
$ ls
index.html index.nginx-debian.html
$ cd dvwa/config
$ ls
config.inc.php.dist
$ cp config.inc.php.dist config.inc.php
$ ls
config.inc.php config.inc.php.dist
$ nano config.inc.php
$ nano config.inc.php
$ nano config.inc.php
$ service mysql restart
$ mysql -u root -p
Enter password:
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 30
Server version: 10.5.9-MariaDB-1 Debian builddd-unstable
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)]>
```

```
Kali-Linux-2021.2-virtualbox-amd64 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
root@kali: /var/www/html - dvwa
root@kali: /var/www/html/dvwa/config

(kali@kali) (/var/www/html)
$ sudo su
(root@kali) (/var/www/html)
$ mv DVWA dvwa
$ ls
index.html index.nginx-debian.html
$ cd dvwa/config
$ ls
config.inc.php.dist
$ cp config.inc.php.dist config.inc.php
$ ls
config.inc.php config.inc.php.dist
$ nano config.inc.php
$ nano config.inc.php
$ nano config.inc.php
$ nano config.inc.php
$ service mysql restart
$ mysql -u root -p
Enter password:
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 30
Server version: 10.5.9-MariaDB-1 Debian builddd-unstable
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 'user'@'127.0.0.1' identified by 'pass';
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MariaDB server version for the right syntax to use near ''user'@'127.0.0.1' identified by 'pass'' at line 1
MariaDB [(none)]> create 'user'@'127.0.0.1' identified by 'pass';
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MariaDB server version for the right syntax to use near ''user'@'127.0.0.1' identified by 'pass'' at line 1
MariaDB [(none)]> create user 'user'@'127.0.0.1' identified by 'pass';
Query OK, 0 rows affected (0.024 sec)
MariaDB [(none)]>
```

```
Kali-Linux-2021.2-virtualbox-amd64 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
root@kali: /var/www/html/ dwwa
05:30 AM

File Actions Edit View Help
root@kali: /var/www/html/
ls
dwwa index.html index.nginx-debian.html
root@kali: /var/www/html/
cd dwwa/config
root@kali: /var/www/html/dwwa/config
ls
config.inc.php.dist
root@kali: /var/www/html/dwwa/config
cp config.inc.php.dist config.inc.php
root@kali: /var/www/html/dwwa/config
ls
config.inc.php config.inc.php.dist
root@kali: /var/www/html/dwwa/config
nano config.inc.php
root@kali: /var/www/html/dwwa/config
nano config.inc.php
root@kali: /var/www/html/dwwa/config
nano config.inc.php
root@kali: /var/www/html/dwwa/config
service mysql restart
root@kali: /var/www/html/dwwa/config
mysql -u root -p
Enter password:
Welcome to the MariaDB monitor. Commands end with ; or \g.
Your MariaDB connection id is 30
Server version: 10.5.9-MariaDB-1 Debian build-1 unstable
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 'user'@'127.0.0.1' identified by 'pass';
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MariaDB server version for the right syntax to use near ''user'@'127.0.0.1' identified by 'pass'' at line 1
MariaDB [(none)]> create 'user'@'127.0.0.1' identified by 'pass';
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MariaDB server version for the right syntax to use near ''user'@'127.0.0.1' identified by 'pass'' at line 1
MariaDB [(none)]> create user 'user'@'127.0.0.1' identified by 'pass';
Query OK, 0 rows affected (0.024 sec)
MariaDB [(none)]> grant all privileges on dwwa.* to 'user'@'127.0.0.1' identified by 'pass';
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MariaDB server version for the right syntax to use near 'privileges on dwwa.* to 'user'@'127.0.0.1' identified by 'pass'' at line 1
MariaDB [(none)]> grant all privileges on dwwa.* to 'user'@'127.0.0.1' identified by 'pass';
Query OK, 0 rows affected (0.014 sec)
MariaDB [(none)]>
```

```
Kali-Linux-2021.2-virtualbox-amd64 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
root@kali: /etc/php/7.4/ apache2
05:38 AM

File Actions Edit View Help
root@kali: /etc/php/7.4/apache2
cp config.inc.php.dist config.inc.php
root@kali: /var/www/html/dwwa/config
ls
config.inc.php config.inc.php.dist
root@kali: /var/www/html/dwwa/config
nano config.inc.php
root@kali: /var/www/html/dwwa/config
nano config.inc.php
root@kali: /var/www/html/dwwa/config
nano config.inc.php
root@kali: /var/www/html/dwwa/config
service mysql restart
root@kali: /var/www/html/dwwa/config
mysql -u root -p
Enter password:
Welcome to the MariaDB monitor. Commands end with ; or \g.
Your MariaDB connection id is 30
Server version: 10.5.9-MariaDB-1 Debian build-1 unstable
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 'user'@'127.0.0.1' identified by 'pass';
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MariaDB server version for the right syntax to use near ''user'@'127.0.0.1' identified by 'pass'' at line 1
MariaDB [(none)]> create 'user'@'127.0.0.1' identified by 'pass';
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MariaDB server version for the right syntax to use near ''user'@'127.0.0.1' identified by 'pass'' at line 1
MariaDB [(none)]> create user 'user'@'127.0.0.1' identified by 'pass';
Query OK, 0 rows affected (0.024 sec)
MariaDB [(none)]> grant all privileges on dwwa.* to 'user'@'127.0.0.1' identified by 'pass';
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MariaDB server version for the right syntax to use near 'privileges on dwwa.* to 'user'@'127.0.0.1' identified by 'pass'' at line 1
MariaDB [(none)]> grant all privileges on dwwa.* to 'user'@'127.0.0.1' identified by 'pass';
Query OK, 0 rows affected (0.014 sec)
MariaDB [(none)]> Ctrl-C -- exit!
Aborted
root@kali: /var/www/html/dwwa/config
cd /etc/php/7.4/apache2
root@kali: /etc/php/7.4/apache2
nano php.ini
root@kali: /etc/php/7.4/apache2
service apache2 start
root@kali: /etc/php/7.4/apache2
```

Kali Linux - 2021.2-virtualbox-amd64 [Running] - Oracle VM VirtualBox

File Machine View Input Devices Help

Setup :: Damn Vulnerable Web Application (DVWA) - Mozilla Firefox

root@kali: /etc/php/7.4/... apache2

05:39 AM

Kali Linux

Setup :: Damn Vulnerable Web Application (DVWA) - Mozilla Firefox

127.0.0.1/dvwa/setup.php

Kali Linux Kali Training Kali Tools Kali Forums Kali Docs NetHunter Offensive Security MSFU Exploit-DB GHDB

DVWA

Setup DVWA

Instructions

About

Database Setup

Click on the 'Create / Reset Database' button below to create or reset your database.
If you get an error make sure you have the correct user credentials in: `/var/www/html/dvwa/config/config.inc.php`

If the database already exists, it will be cleared and the data will be reset.
You can also use this to reset the administrator credentials ("admin" / password) at any stage.

Setup Check

Web Server SERVER_NAME: 127.0.0.1

Operating system: *nix

PHP version: 7.4.15
PHP function display_errors: Disabled
PHP function display_startup_errors: Disabled
PHP function allow_url_include: Enabled
PHP function allow_url_fopen: Enabled
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: user
Database password: *****
Database database: dvwa
Database host: 127.0.0.1
Database port: 3306

reCAPTCHA key: Missing

Writable folder /var/www/html/dvwa/hackable/uploads: No
Writable folder /var/www/html/dvwa/config: No

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 restart 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.

Type here to search

How to Setup DVWA...

Oracle VM VirtualB...

Kali Linux - 2021.2-v...

03:09 PM
29-08-2024

31°C Mostly cloudy

Kali Linux - 2021.2-virtualbox-amd64 [Running] - Oracle VM VirtualBox

File Machine View Input Devices Help

Login :: Damn Vulnerable Web Application (DVWA) - Mozilla Firefox

root@kali: /etc/php/7.4/... apache2

05:40 AM

Kali Linux

Login :: Damn Vulnerable Web Application (DVWA) - Mozilla Firefox

127.0.0.1/dvwa/login.php

Kali Linux Kali Training Kali Tools Kali Forums Kali Docs NetHunter Offensive Security MSFU Exploit-DB GHDB

DVWA

Username

Password

Login

Damn Vulnerable Web Application (DVWA)

Type here to search

How to Setup DVWA...

Oracle VM VirtualB...

Kali Linux - 2021.2-v...

03:10 PM
29-08-2024

31°C Mostly cloudy

