



EC2(칼리눅스 서버)로 DVWA 올리 기.

모의해킹환경 구축을 위한 DVWA 설치하기.

앞서 bee-box에 대해서 소개해드렸는데요. 이번에는 DVWA에 대한 소개입니다. DVWA란? Damn Vulnerable Web Application (DVWA) 의 약자로 마찬가지로 모의해킹 테스트를 위한 환경입니다. bee-box와 마찬가지로

 <https://blog.dalso.org/article/%EB%AA%A8%EC%9D%98%ED%95%B4%ED%82%B9%ED%99%98%EA%B2%BD-%EA%B5%AC%EC%B6%95%EC%9D%84-%EC%9C%84%ED%95%9C-dvwa-%EC%94%A1%EC%B9%98%ED%95%A8%EA%B8%B0>

>> 사이트에서 하라는 대로 모두 실행한다.

- 그 후에 다음 코드를 실행한다.

```
service apache2 start // 아파치 서버를 실행시킨다.  
service mysql start // mysql 서버를 실행시킨다.
```

- 그러면 다음과 같은 문제가 생긴다. 다음의 문제는 내 칼리눅스 서버에 해당 데이터베이스도 없고 계정도 생성되어 있지 않기 때문입니다.

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-master/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

Operating system: *nix
Backend database: MySQL
PHP version: 7.1.14

Web Server SERVER_NAME: 10.96.200.93

PHP function display_errors: Disabled
PHP function safe_mode: Disabled
PHP function allow_url_include: Disabled
PHP function allow_url_fopen: Enabled
PHP function magic_quotes_gpc: Disabled
PHP module gd: Installed
PHP module mysql: Installed
PHP module pdo_mysql: Installed

MySQL username: root
MySQL password: *****
MySQL database: dvwa
MySQL host: 127.0.0.1

reCAPTCHA key: **Missing**

[User: root] Writable folder `/var/www/html/DVWA-master/hackable/uploads/`: **No**
[User: root] Writable file `/var/www/html/DVWA-master/external/phpids/0.6/lib/IDS/tmp/phpids_log.txt`: **No**

Status in red, indicate there will be an issue when trying to complete some modules.

Create / Reset Database

Could not connect to the MySQL service.
Please check the config file.

- 먼저 mysql에 접속한다.

```
(root@kali) - [ /var/www/html/dvwa/config ]
# mysql -uroot
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 33
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)]>
MariaDB [(none)]>
MariaDB [(none)]>
MariaDB [(none)]> show databases;
+-----+
| Database                |
+-----+
| information_schema      |
| mysql                   |
| performance_schema      |
+-----+
3 rows in set (0.001 sec)
```

- mysql의 테이블에 무엇이 있는지 확인한다.(dvwa 있는지 확인)

```

MariaDB [(none)]> use mysql ←
Reading table information for completion of table and column names
You can turn off this feature to get a quicker startup with -A

Database changed
MariaDB [mysql]> show tables; ←
+-----+
| Tables_in_mysql |
+-----+
| column_stats    |
| columns_priv    |
| db               |
| event           |
| func            |
| general_log     |
| global_priv     |
| gtid_slave_pos  |
| help_category   |
| help_keyword    |
| help_relation   |
| help_topic      |
| index_stats     |
| innodb_index_stats |
| innodb_table_stats |
| plugin          |
| proc            |
| procs_priv      |
| proxies_priv    |
| roles_mapping   |
| servers         |
| slow_log        |
| table_stats     |
| tables_priv     |
| time_zone       |
| time_zone_leap_second |
| time_zone_name  |
| time_zone_transition |
| time_zone_transition_type |
| transaction_registry |
| user            |
+-----+
31 rows in set (0.000 sec)

MariaDB [mysql]> select name from user;
ERROR 1054 (42S22): Unknown column 'name' in 'field list'

```

- user 테이블에 무엇이 있는지 확인한다.(dvwa 있는지 확인)

```

MariaDB [mysql]> desc user;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| Host | char(60) | NO | | | |
| User | char(80) | NO | | | |
| Password | longtext | YES | | NULL | |
| Select_priv | varchar(1) | YES | | NULL | |
| Insert_priv | varchar(1) | YES | | NULL | |
| Update_priv | varchar(1) | YES | | NULL | |
| Delete_priv | varchar(1) | YES | | NULL | |
| Create_priv | varchar(1) | YES | | NULL | |
| Drop_priv | varchar(1) | YES | | NULL | |
| Reload_priv | varchar(1) | YES | | NULL | |
| Shutdown_priv | varchar(1) | YES | | NULL | |
| Process_priv | varchar(1) | YES | | NULL | |
| File_priv | varchar(1) | YES | | NULL | |
| Grant_priv | varchar(1) | YES | | NULL | |
| References_priv | varchar(1) | YES | | NULL | |
| Index_priv | varchar(1) | YES | | NULL | |
| Alter_priv | varchar(1) | YES | | NULL | |
| Show_db_priv | varchar(1) | YES | | NULL | |
| Super_priv | varchar(1) | YES | | NULL | |
| Create_tmp_table_priv | varchar(1) | YES | | NULL | |
| Lock_tables_priv | varchar(1) | YES | | NULL | |
| Execute_priv | varchar(1) | YES | | NULL | |
| Repl_slave_priv | varchar(1) | YES | | NULL | |
| Repl_client_priv | varchar(1) | YES | | NULL | |
| Create_view_priv | varchar(1) | YES | | NULL | |
| Show_view_priv | varchar(1) | YES | | NULL | |
| Create_routine_priv | varchar(1) | YES | | NULL | |
| Alter_routine_priv | varchar(1) | YES | | NULL | |
| Create_user_priv | varchar(1) | YES | | NULL | |
| Event_priv | varchar(1) | YES | | NULL | |
| Trigger_priv | varchar(1) | YES | | NULL | |
| Create_tablespace_priv | varchar(1) | YES | | NULL | |
| Delete_history_priv | varchar(1) | YES | | NULL | |
| ssl_type | varchar(9) | YES | | NULL | |
| ssl_cipher | longtext | NO | | | |
| x509_issuer | longtext | NO | | | |
| x509_subject | longtext | NO | | | |
| max_questions | bigint(20) unsigned | NO | | 0 | |
| max_updates | bigint(20) unsigned | NO | | 0 | |
| max_connections | bigint(20) unsigned | NO | | 0 | |
| max_user_connections | bigint(21) | NO | | 0 | |
| plugin | longtext | NO | | | |
| authentication_string | longtext | NO | | | |
| password_expired | varchar(1) | NO | | | |
| is_role | varchar(1) | YES | | NULL | |
| default_role | longtext | NO | | | |
| max_statement_time | decimal(12,6) | NO | | 0.000000 | |
+-----+-----+-----+-----+-----+-----+
47 rows in set (0.001 sec)

```

- users 테이블의 user에 dvwa 있는지 확인

```
MariaDB [mysql]> select user from user;
+-----+
| User          |
+-----+
| mariadb.sys  |
| mysql        |
| root         |
+-----+
3 rows in set (0.001 sec)

MariaDB [mysql]> show databases;
+-----+
| Database      |
+-----+
| information_schema |
| mysql         |
| performance_schema |
+-----+
3 rows in set (0.000 sec)
```

- 테이블 중에 dvwa가 있는지 확인

```
MariaDB [mysql]> show tables;
+-----+
| Tables_in_mysql |
+-----+
| column_stats    |
| columns_priv    |
| db               |
| event           |
| func             |
| general_log     |
| global_priv     |
| gtid_slave_pos  |
| help_category   |
| help_keyword    |
| help_relation   |
| help_topic      |
| index_stats     |
| innodb_index_stats |
| innodb_table_stats |
| plugin          |
| proc            |
| procs_priv      |
| proxies_priv    |
| roles_mapping   |
| servers         |
| slow_log        |
| table_stats     |
| tables_priv     |
| time_zone       |
| time_zone_leap_second |
| time_zone_name  |
| time_zone_transition |
| time_zone_transition_type |
| transaction_registry |
| user            |
+-----+
31 rows in set (0.000 sec)
```

- dvwa 데이터베이스를 만든다.

```
MariaDB [mysql]> create database dvwa;
Query OK, 1 row affected (0.000 sec)
```

- user명은 dvwa로 합니다. '@%' 는 어떤 클라이언트에서든 접근이 가능하다는 의미이고, '@localhost' 는 해당 컴퓨터에서만 접근이 가능하다는 의미입니다.

```
mysql> CREATE USER '{username}'@'localhost' IDENTIFIED BY '{password}';  
mysql> CREATE USER '{username}'@'%' IDENTIFIED BY '{password}';
```

```
MariaDB [mysql]> create user 'dvwa'@'localhost' identified by '';  
Query OK, 0 rows affected (0.002 sec)
```

```
MariaDB [mysql]> create user 'dvwa'@'%' identified by '';  
Query OK, 0 rows affected (0.001 sec)
```

- 생성한 계정에 권한을 부여한다.

```
mysql> GRANT ALL PRIVILEGES ON {database}.* TO '{username}'@'localhost';  
mysql> FLUSH PRIVILEGES;
```

```
MariaDB [mysql]> grant all privileges on dvwa.* to 'dvwa'@'localhost';  
Query OK, 0 rows affected (0.001 sec)
```

```
MariaDB [mysql]> grant all privileges on dvwa.* to 'dvwa'@'%';  
Query OK, 0 rows affected (0.003 sec)
```

- 권한 부여한것을 다시 실행시킨다.

```
MariaDB [mysql]> flush privileges;  
Query OK, 0 rows affected (0.000 sec)
```

- 나간다.

```
MariaDB [mysql]> exit
Bye
```

- dvwa 설정을 다시 입력한다.

```
(root@kali) - [~/var/www/html/dvwa/config]
# cd /var/www/html/dvwa/config/

(root@kali) - [~/var/www/html/dvwa/config]
# vi config.inc.php
```

```
<?php

# If you are having problems connecting to the MySQL database and all of the variables below are correct
# try changing the 'db_server' variable from localhost to 127.0.0.1. Fixes a problem due to sockets.
# Thanks to @digininja for the fix.

# Database management system to use
$DBMS = 'MySQL';
# $DBMS = 'PGSQL'; // Currently disabled

# Database variables
# WARNING: The database specified under db_database WILL BE ENTIRELY DELETED during setup.
# Please use a database dedicated to DVWA.
#
# If you are using MariaDB then you cannot use root, you must use create a dedicated DVWA user.
# See README.md for more information on this.
$DVWA = array();
$DVWA[ 'db_server' ] = '127.0.0.1';
$DVWA[ 'db_database' ] = 'dvwa';
$DVWA[ 'db_user' ] = 'dvwa';
$DVWA[ 'db_password' ] = '';
$DVWA[ 'db_port' ] = '3306';

# ReCAPTCHA settings
# Used for the 'Insecure CAPTCHA' module
# You'll need to generate your own keys at: https://www.google.com/recaptcha/admin
$DVWA[ 'recaptcha_public_key' ] = '';
$DVWA[ 'recaptcha_private_key' ] = '';

# Default security level
# Default value for the security level with each session.
# The default is 'impossible'. You may wish to set this to either 'low', 'medium', 'high' or impossible'.
$DVWA[ 'default_security_level' ] = 'impossible';

# Default PHPIDS status
# PHPIDS status with each session.
# The default is 'disabled'. You can set this to be either 'enabled' or 'disabled'.
$DVWA[ 'default_phpids_level' ] = 'disabled';

"config.inc.php" [dos] 45L, 1791B
```

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Top

- 다시 실행하면 실행된다.

The screenshot shows the AWS Management Console for a public IPv4 address. The main content area displays the following details:

요약	요약	요약	요약
할당된 IPv4 주소 52.78.136.203	유형 퍼블릭 IP	할당 ID eipalloc-0eb0e1f6d7ee98454	연결 ID eipassoc-001b0b30a21733a19
범위 VPC	연결된 인스턴스 ID -	프라이빗 IP 주소 10.0.0.105	네트워크 인터페이스 ID eni-0845d41cb851145f2
네트워크 인터페이스 소유자 계정 ID 569934397842	퍼블릭 DNS ec2-52-78-136-203.ap-northeast-2.compute.amazonaws.com	NAT 게이트웨이 ID nat-01a8fef45ba3fd6ee	주소 풀 Amazon
네트워크 경계 그룹 ap-northeast-2			

Tags (0) and a '태그 관리' button are also visible.

The screenshot shows a web browser window with the address bar containing the URL `52.78.188.221/dvwa`. The page displays the DVWA logo and a login form with the following fields:

- Username:
- Password:
- Login:

At the bottom of the page, there is a small link: [Damn Vulnerable Web Application \(DVWA\)](#)

▼ 참고사이트

<https://devdhjo.github.io/mysql/2020/01/29/database-mysql-002.html>