

# Второй этап индивидуального проекта

Установка DVWA

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Беличева Д. М.

Российский университет дружбы народов, Москва, Россия

## Информация

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- Беличева Дарья Михайловна
- студентка
- Российский университет дружбы народов
- 1032216453@pfur.ru
- <https://dmbelicheva.github.io/ru/>



## Цель работы

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Установить и настроить DVWA в гостевую систему к Kali Linux.

## Выполнение лабораторной работы

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```
(dmbelicheva@dmbelicheva)-[~]  
$ cd /var/www/html  
  
(dmbelicheva@dmbelicheva)-[/var/www/html]  
$ sudo git clone https://github.com/ethicalhack3r/DVWA  
[sudo] password for dmbelicheva:  
Cloning into 'DVWA' ...  
remote: Enumerating objects: 4784, done.  
remote: Counting objects: 100% (334/334), done.  
remote: Compressing objects: 100% (187/187), done.  
remote: Total 4784 (delta 185), reused 266 (delta 139), pack-reused 4450 (from 1)  
Receiving objects: 100% (4784/4784), 2.36 MiB | 600.00 KiB/s, done.  
Resolving deltas: 100% (2296/2296), done.  
  
(dmbelicheva@dmbelicheva)-[/var/www/html]  
$
```

Рис. 1: Скачивание DVWA: клонирование репозитория

```
(dmbelicheva@dmbelicheva)-[/var/www/html]
$ ls
DVWA index.html index.nginx-debian.html

(dmbelicheva@dmbelicheva)-[/var/www/html]
$ sudo chmod -R 777 DVWA

(dmbelicheva@dmbelicheva)-[/var/www/html]
$ cd DVWA/config

(dmbelicheva@dmbelicheva)-[/var/www/html/DVWA/config]
$ ls
config.inc.php.dist

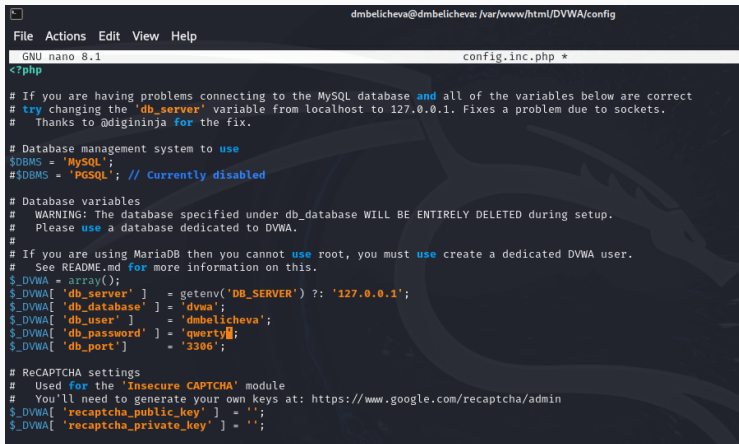
(dmbelicheva@dmbelicheva)-[/var/www/html/DVWA/config]
$ sudo cp config.inc.php.dist config.inc.php

(dmbelicheva@dmbelicheva)-[/var/www/html/DVWA/config]
$ ls
config.inc.php config.inc.php.dist

(dmbelicheva@dmbelicheva)-[/var/www/html/DVWA/config]
$ sudo nano config.inc.php
```

Рис. 2: Каталог конфигурации





```
dmbelicheva@dmbelicheva: /var/www/html/DVWA/config
File Actions Edit View Help
GNU nano 8.1 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' ] = getenv('DB_SERVER') ?: '127.0.0.1';
$_DVWA[ 'db_database' ] = 'dvwa';
$_DVWA[ 'db_user' ] = 'dmbelicheva';
$_DVWA[ 'db_password' ] = 'qwerty';
$_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' ] = '';
```

Рис. 3: Редактирование файла конфигурации

```
(dmbelicheva@dmbelicheva)-[/var/www/html/DVWA/config]
$ sudo systemctl start mysql

(dmbelicheva@dmbelicheva)-[/var/www/html/DVWA/config]
$ systemctl status mysql
● mariadb.service - MariaDB 11.4.2 database server
   Loaded: loaded (/usr/lib/systemd/system/mariadb.service; disabled; preset: disabled)
   Active: active (running) since Sat 2024-09-21 00:16:42 MSK; 14s ago
 Invocation: 85e22b14f2c547c490a39fa2d5e38e02
    Docs: man:mariadb(8)
          https://mariadb.com/kb/en/library/systemd/
   Process: 13997 ExecStartPre=/usr/bin/install -m 755 -o mysql -g root -d /var/run/mysql
   Process: 14007 ExecStartPre=/bin/sh -c systemctl unset-environment _WSREP_START_POSITI
   Process: 14009 ExecStartPre=/bin/sh -c [ ! -e /usr/bin/galera_recovery ] && VAR= || v
   Process: 14100 ExecStartPost=/bin/sh -c systemctl unset-environment _WSREP_START_POSITI
   Process: 14102 ExecStartPost=/etc/mysql/debian-start (code=exited, status=0/SUCCESS)
  Main PID: 14069 (mariabdb)
    Status: "Taking your SQL requests now ..."
   Tasks: 15 (limit: 30404)
  Memory: 361.7M (max: 365M)
```

Рис. 4: Запуск службы mysql

```
(dmbelicheva@dmbelicheva)-[/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 31
Server version: 11.4.2-MariaDB-4 Debian n/a

Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.

Support MariaDB developers by giving a star at https://github.com/MariaDB/server
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

MariaDB [(none)]> creat user 'dmbelicheva'@'127.0.0.1' identified by 'qwerty'
→
→ create user 'dmbelicheva'@'127.0.0.1' identified by "qwerty";
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MariaDB server version for the right
se near 'creat user 'dmbelicheva'@'127.0.0.1' identified by 'qwerty'

create user 'dmb...' at line 1
MariaDB [(none)]> create user 'dmbelicheva'@'127.0.0.1' identified by "qwerty";
Query OK, 0 rows affected (0.003 sec)

MariaDB [(none)]> grant all privileges on dvwa.* to 'dmbelicheva'@'127.0.0.1' identified by 'qwerty';
Query OK, 0 rows affected (0.002 sec)

MariaDB [(none)]> █
```

Рис. 5: Вход в базу данных, создание пользователя

```
(dmbelicheva@dmbelicheva)-[/var/www/html/DVWA/config]
$ cd /etc/php/7.4/apache2
cd: no such file or directory: /etc/php/7.4/apache2

(dmbelicheva@dmbelicheva)-[/var/www/html/DVWA/config]
$ ls /etc/php
8.2

(dmbelicheva@dmbelicheva)-[/var/www/html/DVWA/config]
$ cd /etc/php/8.2/apache2

(dmbelicheva@dmbelicheva)-[/etc/php/8.2/apache2]
$ ls
conf.d  php.ini

(dmbelicheva@dmbelicheva)-[/etc/php/8.2/apache2]
$
```

Рис. 6: Переход в нужную директорию

```
; 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
```

Рис. 7: Редактирование файла php.ini

# Настройка сервера Apache

```
(dmbelicheva@dmbelicheva)-[/etc/php/8.2/apache2]
$ sudo systemctl start apache2

(dmbelicheva@dmbelicheva)-[/etc/php/8.2/apache2]
$ systemctl status apache2
● apache2.service - The Apache HTTP Server
   Loaded: loaded (/usr/lib/systemd/system/apache2.service; disabled; preset: disabled)
   Active: active (running) since Sat 2024-09-21 00:47:17 MSK; 9s ago
 Invocation: 8192ce95b4214c8fb8c43afcc3902089
    Docs: https://httpd.apache.org/docs/2.4/
   Process: 29116 ExecStart=/usr/sbin/apachectl start (code=exited, status=0/SUCCESS)
  Main PID: 29140 (apache2)
    Tasks: 6 (limit: 4606)
   Memory: 19.7M (peak: 20M)
      CPU: 161ms
   CGroup: /system.slice/apache2.service
           └─29140 /usr/sbin/apache2 -k start
             └─29143 /usr/sbin/apache2 -k start
               └─29144 /usr/sbin/apache2 -k start
                 └─29145 /usr/sbin/apache2 -k start
                   └─29146 /usr/sbin/apache2 -k start
                     └─29147 /usr/sbin/apache2 -k start

Sep 21 00:47:17 dmbelicheva systemd[1]: Starting apache2.service - The Apache HTTP Server...
Sep 21 00:47:17 dmbelicheva apachectl[29139]: AH00558: apache2: Could not reliably determine t
Sep 21 00:47:17 dmbelicheva systemd[1]: Started apache2.service - The Apache HTTP Server.
lines 1-21/21 (END)
```

Рис. 8: Запуск службы веб-сервера apache

# Открытие DVWA в веб-браузере

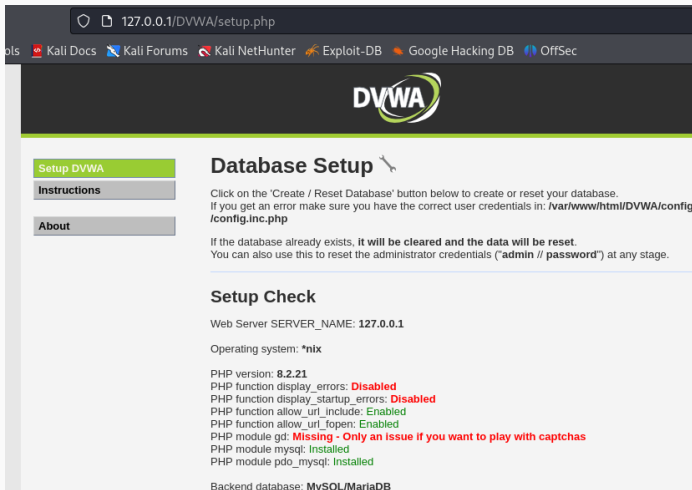


Рис. 9: Запуск приложения DVWA в веб-браузере

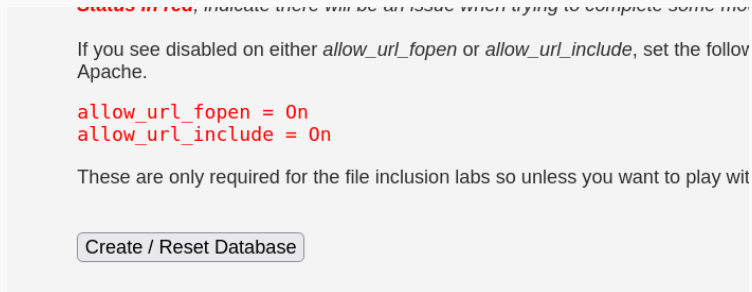


Рис. 10: Создание базы данных



## Открытие DVWA в веб-браузере

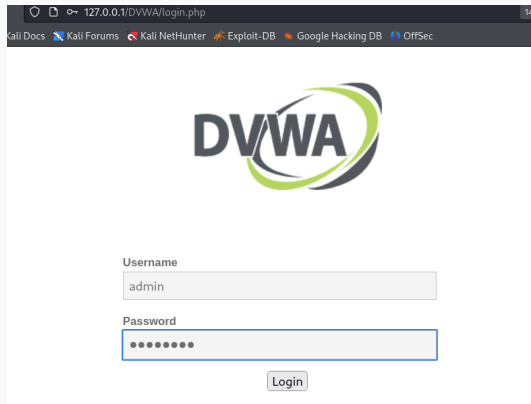


Рис. 11: Вход в систему DVWA

# Открытие DVWA в веб-браузере

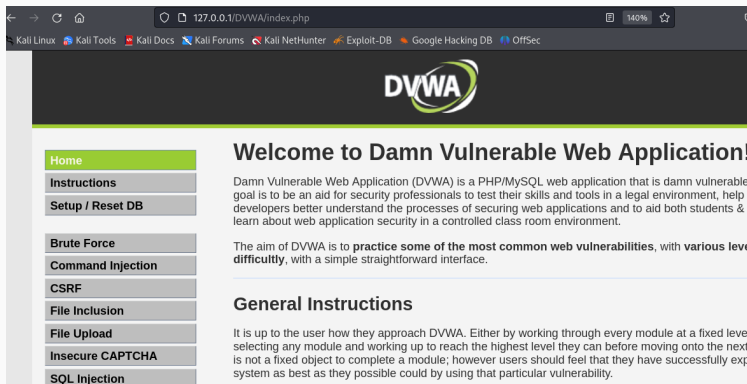


Рис. 12: Домашняя страница DVWA

## Выводы

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В результате выполнения данного этапа проекта я установила и настроила DVWA в гостевую систему к Kali Linux.

## Список литературы

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1. Damn Vulnerable Web Application (DVWA) [Электронный ресурс]. 2024. URL: <https://kali.tools/?p=1820>.