

Индивидуальный проект. Этап 2

Основы информационной безопасности

Жибицкая Е.Д.

Российский университет дружбы народов, Москва, Россия

Цель

- Работа с ОС Kali Linux, установка на нее и подготовка к работе DVWA

Ход работы

Клонирование репозитория

```
File Actions Edit View Help
└─$ git clone https://github.com/digininja/DVWA.git
Cloning into 'DVWA' ...
remote: Enumerating objects: 5100, done.
remote: Counting objects: 100% (103/103), done.
remote: Compressing objects: 100% (33/33), done.
remote: Total 5100 (delta 76), reused 80 (delta 65), pack-reused 4997 (from 2)
Receiving objects: 100% (5100/5100), 2.45 MiB | 383.00 KiB/s, done.
Resolving deltas: 100% (2501/2501), done.

(edzhibitskaya@kali)~$ ls
Desktop Documents Downloads Music Pictures Public Templates Videos
(edzhibitskaya@kali)~$ sudo mv DVWA /var/www/html
[sudo] password for edzhibitskaya:
(edzhibitskaya@kali)~$ ls
DVWA index.html index.nginx-debian.html
(edzhibitskaya@kali)~/var/www/html$
```

Переходим по ссылке <https://github.com/digininja/DVWA> в нужный репозиторий, открываем терминал и скачиваем его. Затем перемещаем в каталог `/var/www/html`. Также повышаем права до максимального уровня

Рис. 1: Клонирование репозитория

Настройка mysql

```
edzhibitskaya@kali: /var/www/html/DVWA/config
File Actions Edit View Help
(edzhibitskaya@kali)-[/var/www/html/DVWA/config]
$ sudo systemctl start mysql
(edzhibitskaya@kali)-[/var/www/html/DVWA/config]
$ systemctl status mysql
● mariadb.service - MariaDB 11.4.3 database server
   Loaded: loaded (/usr/lib/systemd/system/mariadb.service; disabled; pres
   Active: active (running) since Fri 2025-02-28 16:00:21 MSK; 22s ago
   Invocation: ea3670629fbc436c8e49adabf6b6ef09
   Docs: man:mariadb(8)
```

Рис. 2: Запуск mysql

```
edzhibitskaya@kali: /var/www/html/DVWA/config
File Actions Edit View Help
GNU nano 8.2 config.inc.php *
<?php

# If you are having problems connecting to the MySQL database and all of the
# try changing the 'db_server' variable from localhost to 127.0.0.1. Fixes ab
# Thanks to @digininja for the fix.

# Database management system to use
$DBMS = getenv('DBMS') ?: 'MySQL';
#$DBMS = 'PGSQL'; // Currently disabled

# Database variables
# WARNING: The database specified under db_database WILL BE ENTIRELY DELETED
# Please use a database dedicated to DVWA.
#
# If you are using MariaDB then you cannot use root, you must use create a db
# See README.md for more information on this.
$_DVWA = array();
$_DVWA['db_server'] = '127.0.0.1';
$_DVWA['db_port'] = '3306';
$_DVWA['db_user'] = 'dvwa';
$_DVWA['db_password'] = 'p@ssw0rd';
$_DVWA['db_database'] = 'dvwa';
```

Рис. 3: Файл config.inc.php

```
MariaDB [(none)]> create database dvwa;  
MariaDB [(none)]> create user dvwa@localhost  
identified by 'p@ssw0rd';  
MariaDB [(none)]> grant all on dvwa.* to  
dvwa@localhost;  
MariaDB [(none)]> flush privileges;
```

```

File Actions Edit View Help

MariaDB [(none)]> create database dvwa;
Query OK, 1 row affected (0.001 sec)

MariaDB [(none)]> create user 'userDVWA'@'127.0.0.1' identified by 'dvwa';
ERROR 1396 (HY000): Operation CREATE USER failed for 'userDVWA'@'127.0.0.1'
MariaDB [(none)]> create user dvwa@localhost identified by 'p@ssw0rd';
→ ;
Query OK, 0 rows affected (0.009 sec)

MariaDB [(none)]> grant all on dvwa.* to dvwa@localhost;
Query OK, 0 rows affected (0.003 sec)

MariaDB [(none)]> flush privileges
→ ;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual th
at corresponds to your MariaDB server version for the right syntax to use nea
r 'privileges' at line 1
MariaDB [(none)]> flush privileges;
Query OK, 0 rows affected (0.002 sec)

MariaDB [(none)]> exit
Bye

```

Рис. 4: Настройки MariaDB

```
(edzhibitskaya@kali)~[/etc/php/8.2/apache2]
$ sudo systemctl start apache2

(edzhibitskaya@kali)~[/etc/php/8.2/apache2]
$ systemctl status start apache2
Unit start.service could not be found.
● apache2.service - The Apache HTTP Server
   Loaded: loaded (/usr/lib/systemd/system/apache2.service; disabled; pres>
   Active: active (running) since Fri 2025-02-28 16:19:50 MSK; 19s ago
   Invocation: 9754860683b0468fa59fb89122e88a00
   Docs: https://httpd.apache.org/docs/2.4/
   Process: 25861 ExecStart=/usr/sbin/apachectl start (code=exited, status=
```

Рис. 5: Запуск apache2

```
;;;;;;;;;;
; Fopen wrappers ;
;;;;;;;;;;
; database, simply click on the "Setup" link, button r
; button. This will create a test database for
; Whether to allow the treatment of URLs (like http:// or ftp:
; https://php.net/allow-url-fopen
allow_url_fopen = On
; for while trying to create your database, make
; This differs from apache's php dist
; Whether to allow include/require to open URLs (like https://
; https://php.net/allow-url-include
allow_url_include = On
; to the following by default:
; Define the anonymous ftp password (your email address). PHP
```

Рис. 6: Редактирование php.ini

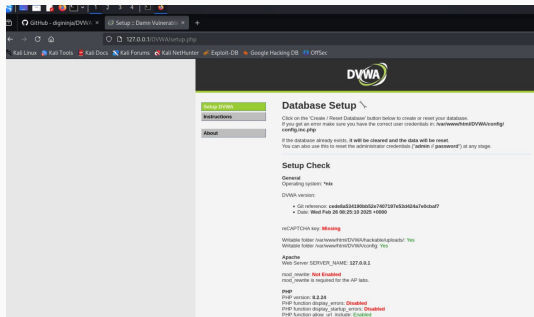


Рис. 7: 127.0.0.1/DVWA/setup.php

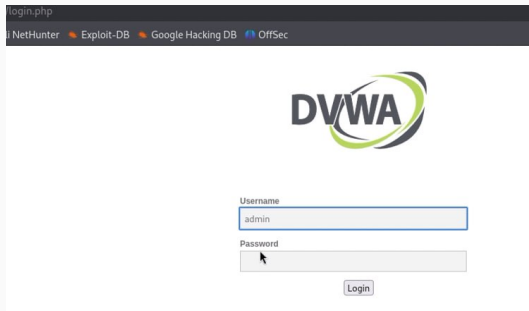


Рис. 8: Вход в систему

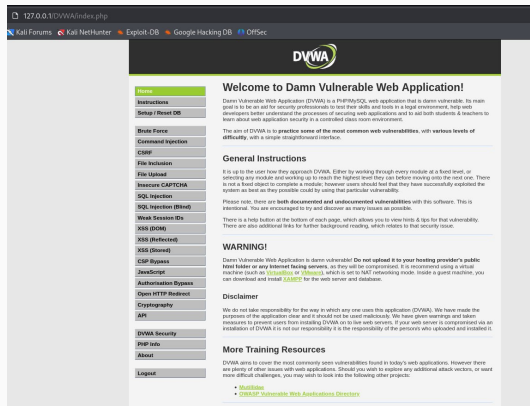


Рис. 9: Домашняя страница

Выводы

- В ходе работы была установлена DVWA в гостевую систему Kali Linux, создана ДБ и произведена настройка