Индивидуальный проект. Этап №2

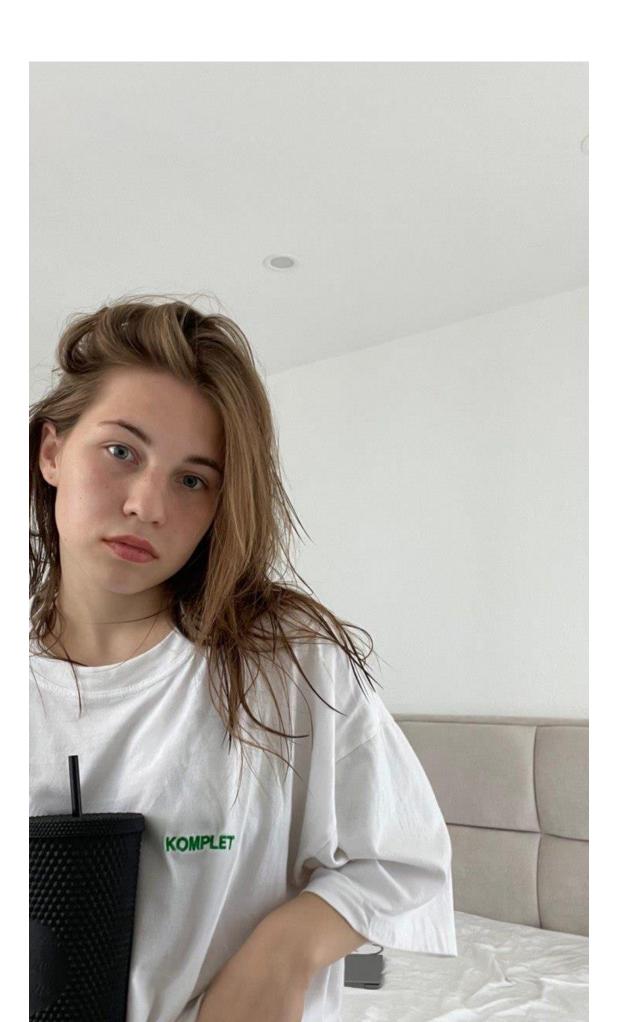
Установка DVWA

Камкина А. Л.

Информация

Докладчик

- Камкина Арина Леонидовна
- студентка группы НКНбд-01-21
- Российский университет дружбы народов
- 1032216456@pfur.ru
- https://alkamkina.github.io/ru/



Вводная часть

Цели и задачи

Цель работы:

Установить DVWA в гостевую систему к Kali Linux.

Задачи:

- Установить DVWA на Kali Linux
- Настроить DVWA

Инструмент: VirtualBox

Выполнение лабораторной работы

Переход в каталог

```
___(alkamkina⊕alkamkina)-[~]

$ cd /var/www/html
```

Переход в каталог

Клонирование репозитория

```
(alkamkina® alkamkina)-[/var/www/html]
$ sudo git clone https://github.com/digininja/DVWA.git
[sudo] password for alkamkina:
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 (fro m 1)
Receiving objects: 100% (4784/4784), 2.36 MiB | 3.08 MiB/s, done.
Resolving deltas: 100% (2296/2296), done.
```

Клонирование репозитория

Запуск веб сервера

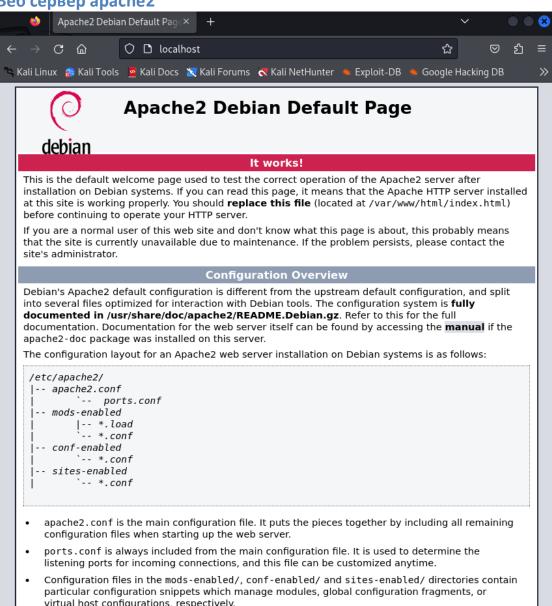
```
(alkamkina alkamkina) - [/var/www/html]
$\frac{1}{2} \text{ls}

DVWA index.html index.nginx-debian.html}

(alkamkina alkamkina) - [/var/www/html]
$\frac{5}{2} \text{sudo} \text{service apache2 start}
```

Запуск веб сервера

Веб сервер арасhe2



Веб сервер арасће2

Копирование фала

```
-(alkamkina@alkamkina)-[/var/www/html]
 s cd DVWA
(alkamkina@alkamkina)-[/var/www/html/DVWA]

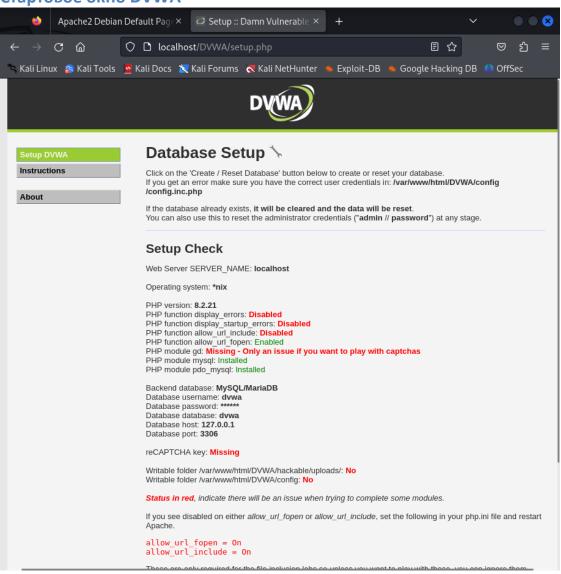
$ ls
CHANGELOG.md README.ko.md compose.yml index.php
                                                               security.txt
COPYING.txt README.md config
Dockerfile README.pt.md database
README.ar.md README.tr.md docs
README.es.md README.vi.md dvwa
                                            instructions.php setup.php
                                            login.php
                                                               vulnerabilities
                                            logout.php
                                            php.ini
README.fa.md README.zh.md external
                                          phpinfo.php
README.fr.md SECURITY.md favicon.ico robots.txt
README.id.md about.php hackable
                                          security.php
  -(alkamkina®alkamkina)-[/var/www/html/DVWA]
_s ls config
config.inc.php.dist
  —(alkamkina⊛alkamkina)-[/var/ww/html/DVWA]
cp config/config.inc.php.dist config/config.inc.php
cp: cannot create regular file 'config/config.inc.php': Permission denied
   -(alkamkina®alkamkina)-[/var/www/html/DVWA]
sudo cp config/config.inc.php.dist config/config.inc.php
```

Копирование фала

Просмотр файла

```
-(alkamkina®alkamkina)-[/var/www/html/DVWA]
s cat config/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 DELETE
D during setup.
# Please use a database dedicated to DVWA.
# If you are using MariaDB then you cannot use root, you must use create a de
dicated 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' ] = 'dvwa';
$_DVWA[ 'db_password' ] = 'p@ssw0rd';
$_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/recaptch
$_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', 'm
edium', 'high' or impossible'.
$_DVWA[ 'default_security_level' ] = 'impossible';
# Default locale
# Default locale for the help page shown with each session.
# The default is 'en'. You may wish to set this to either 'en' or 'zh'.
$_DVWA[ 'default_locale' ] = 'en';
# Disable authentication
   Some tools don't like working with authentication and passing cookies aro
```

Стартовое окно DVWA



Стартовое окно DVWA

Создание пользователя

```
F
                              root@alkamkina: ~
File Actions Edit View Help
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/ser
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement
MariaDB [(none)]> create database dvwa;
Query OK, 1 row affected (0.007 sec)
MariaDB [(none)]> create user dvwa@localhost identified by 'p@ssw0rd';
Query OK, 0 rows affected (0.026 sec)
MariaDB [(none)]> garnt all on dvwa.* to dvwa@localhost;
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 'garnt all on dvwa.* to dvwa@localhost' at line 1
MariaDB [(none)]> grant all on dvwa.* to dvwa@localhost;
Query OK, 0 rows affected (0.004 sec)
MariaDB [(none)]> flush privileges;
Query OK, 0 rows affected (0.001 sec)
MariaDB [(none)]>
```

Создание пользователя

Создание пользователя

```
(alkamkina® alkamkina)-[/var/www/html/DVWA]
$ service mariadb start

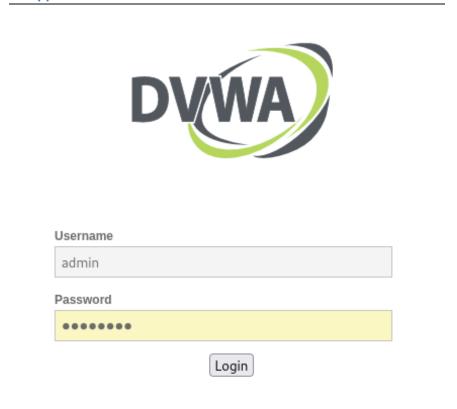
(alkamkina® alkamkina)-[/var/www/html/DVWA]
$ mysql -u dvwa -p
Enter password:
Welcome to the MariaDB monitor. Commands end with; or \g.
Your MariaDB connection id is 32
Server version: 11.4.2-MariaDB-4 Debian n/a

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)]> use dvwa;
Database changed
MariaDB [dvwa]>
```

Создание пользователя



Вход

Стартовая страница DVWA



Instructions Setup / Reset DB **Brute Force Command Injection** CSRF File Inclusion File Upload Insecure CAPTCHA **SQL** Injection SQL Injection (Blind) Weak Session IDs XSS (DOM) XSS (Reflected) XSS (Stored) **CSP Bypass** JavaScript **Authorisation Bypass** Open HTTP Redirect **DVWA Security** PHP Info About

Welcome to Damn Vulnerable Web Application!

Damn Vulnerable Web Application (DVWA) is a PHP/MySQL web application that is damn vulnerable. Its main goal is to be an aid for security professionals to test their skills and tools in a legal environment, help web developers better understand the processes of securing web applications and to aid both students & teachers to learn about web application security in a controlled class room environment.

The aim of DVWA is to practice some of the most common web vulnerabilities, with various levels of difficultly, with a simple straightforward interface.

General Instructions

It is up to the user how they approach DVWA. Either by working through every module at a fixed level, or selecting any module and working up to reach the highest level they can before moving onto the next one. There is not a fixed object to complete a module; however users should feel that they have successfully exploited the system as best as they possible could by using that particular vulnerability.

Please note, there are **both documented and undocumented vulnerabilities** with this software. This is intentional. You are encouraged to try and discover as many issues as possible.

There is a help button at the bottom of each page, which allows you to view hints & tips for that vulnerability. There are also additional links for further background reading, which relates to that security issue.

WARNING!

Damn Vulnerable Web Application is damn vulnerable! **Do not upload it to your hosting provider's public html folder or any internet facing servers**, as they will be compromised. It is recommend using a virtual machine (such as <u>VirtualBox</u> or <u>VMware</u>), which is set to NAT networking mode. Inside a guest machine, you can download and install <u>XAMPP</u> for the web server and database.

Disclaimer

We do not take responsibility for the way in which any one uses this application (DVWA). We have made the purposes of the application clear and it should not be used maliciously. We have given warnings and taken measures to prevent users from installing DVWA on to live web servers. If your web server is compromised via an installation of DVWA it is not our responsibility it is the responsibility of the person/s who uploaded and installed it.

More Training Resources

Стартовая страница DVWA

Заключение

Вывод

Logout

В ходе выполнения работы был установлен DVWA на Kali Linux.