Индивидуальный проект. Этап №2

Установка DVWA

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Цель работы

Установить DVWA в гостевую систему к Kali Linux.

Теоретические сведения

Damn Vulnerable Web Application (DVWA) — это PHP/MySQL веб-приложение, которое чертовски уязвимо. Его главная цель — помочь специалистам по безопасности проверить свои навыки и инструменты в правовой среде, помочь вебразработчикам лучше понять процессы защиты веб-приложений и помочь как студентам, так и преподавателям узнать о безопасности веб-приложений в контролируемой среде класса.

Цель DVWA — **отработать некоторые из наиболее распространенных вебуязвимостей**, с различными уровнями сложности, с простым понятным интерфейсом. Обратите внимание, что в этом программном обеспечении есть как документированные, так и недокументированные уязвимости. Это сделано намеренно. Вам предлагается попытаться обнаружить как можно больше проблем.

Выполнение лабораторной работы

Перейдём в нужный каталог и скопировали в него файлы(рис. [-@fig:001])(рис. [-@fig:002])

```
(alkamkina® alkamkina)-[~]
$ cd /var/www/html

(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.
```

Запустим веб сервера(рис. [-@fig:003])

```
(alkamkina alkamkina) - [/var/www/html]

$ ls

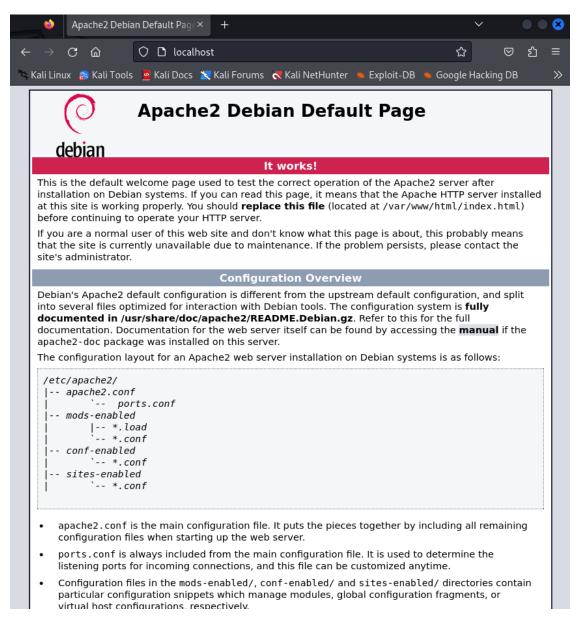
DVWA index.html index.nginx-debian.html

(alkamkina alkamkina) - [/var/www/html]

$ sudo service apache2 start
```

Запуск веб сервера

Веб сервер(рис. [-@fig:004])



Веб сервер арасће2

Копируем файл конфигураций DVWA для безопасного изменения(рис. [-@fig:005])

```
-(alkamkina®alkamkina)-[/var/www/html]
_s cd DVWA
(alkamkina@alkamkina)-[/var/www/html/DVWA]
CHANGELOG.md README.ko.md compose.yml index.php
                                                              security.txt
COPYING.txt README.md config
Dockerfile README.pt.md database
                                           instructions.php setup.php
                                           login.php
README.ar.md README.tr.md docs logout.php
                                                             vulnerabilities
README.es.md README.vi.md dvwa php.ini
README.fa.md README.zh.md external phpinfo.php
README.fr.md SECURITY.md favicon.ico robots.txt
                                           phpinfo.php
README.id.md about.php hackable security.php
  -(alkamkina⊛alkamkina)-[/var/www/html/DVWA]
s ls config
config.inc.php.dist
 —(alkamkina֍alkamkina)-[/var/www/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

Просмотрим файл конфигураций (рис. [-@fig:006])

```
-(alkamkina@alkamkina)-[/var/www/html/DVWA]
 scat 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.Hid '5:

$_DVWA = array();

$_DVWA[ 'db_server' ] = getenv('DB_S

$_DVWA[ 'db_database' ] = 'dvwa';

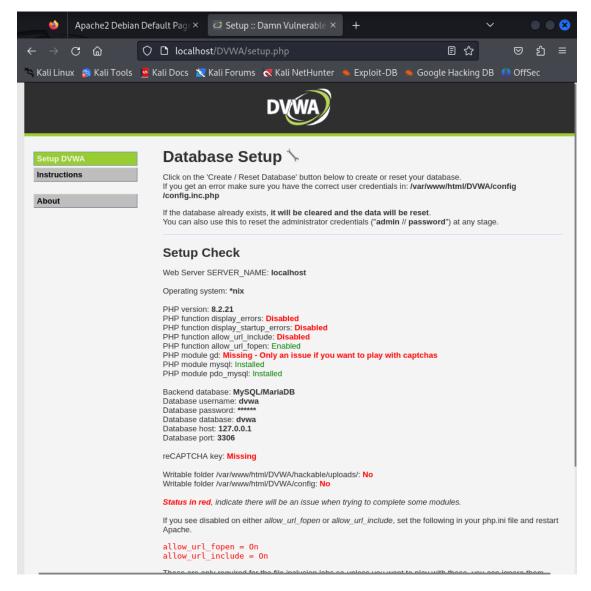
$_DVWA[ 'db_user' ] = 'dvwa';

$_DVWA[ 'db_password' ] = 'p@ssw0rd';

$_DVWA[ 'db_port'] = '3306';
# See README.md for more information on this.
                         = getenv('DB_SERVER') ?: '127.0.0.1';
# ReCAPTCHA settings
# Used for the 'Insecure CAPTCHA' module
#
     You'll need to generate your own keys at: https://www.google.com/recaptch
a/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', '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
```

Просмотр файла

Стартовое окно(рис. [-@fig:007])



Стартовое окно DVWA

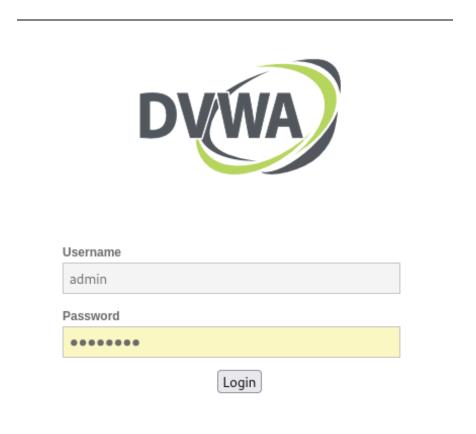
Запускаем сервер mariadb. Открываем терминал от имени администратора и создаём базу данных и пользователя(рис. [-@fig:008])(рис. [-@fig:009])

```
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

Взодим в учетную запись(рис. [-@fig:010])



Вход

Стартовая тсраница(рис. [-@fig:011])



Home

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

Logout

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 тсраница DVWA

Вывод

В ходе выполнения работы был установлен DVWA на Kali Linux.