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# Front matter

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lang: ru-RUtitle: "personal project#2"subtitle: "Дисциплина: Основы информационной безопасности"author: "Георгес Гедеон"

## Formatting

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toc-title: "Содержание"toc: true # Table of contentstoc\_depth: 2lof: true  
# Список рисунковlot: true # Список таблицfontsize: 12ptlinestretch:  
1.5papersize: a4paperdocumentclass: scrreprtpolyglossia-lang:  
russianpolyglossia-otherlangs: englishmainfont: PT Serifromanfont: PT  
Serifsansfont: PT Sansmonofont: PT Monomainfontoptions:  
Ligatures=TeXromanfontoptions: Ligatures=TeXsansfontoptions:  
Ligatures=TeX,Scale=MatchLowercasemonofontoptions:  
Scale=MatchLowercaseindent: truepdf-engine: lualatexheader-includes:

- `\linepenalty=10` # the penalty added to the badness of each line within a paragraph (no associated penalty node) Increasing the value makes tex try to have fewer lines in the paragraph.
- `\interlinepenalty=0` # value of the penalty (node) added after each line of a paragraph.
- `\hyphenpenalty=50` # the penalty for line breaking at an automatically inserted hyphen
- `\exhyphenpenalty=50` # the penalty for line breaking at an explicit hyphen
- `\binoppenalty=700` # the penalty for breaking a line at a binary operator
- `\relpenalty=500` # the penalty for breaking a line at a relation
- `\clubpenalty=150` # extra penalty for breaking after first line of a paragraph
- `\widowpenalty=150` # extra penalty for breaking before last line of a paragraph
- `\displaywidowpenalty=50` # extra penalty for breaking before last line before a display math
- `\brokenpenalty=100` # extra penalty for page breaking after a hyphenated line
- `\predisplaypenalty=10000` # penalty for breaking before a display
- `\postdisplaypenalty=0` # penalty for breaking after a display

- `\floatingpenalty = 20000` # penalty for splitting an insertion (can only be split footnote in standard LaTeX)
- `\raggedbottom` # or `\flushbottom`
- `\usepackage{float}` # keep figures where there are in the text
- `\floatplacement{figure}{H}` # keep figures where there are in the text

## Цель работы

Приобретение практического навыка установки и развертывания веб-приложений DVWA в гостевую систему к Kali Linux.

## Выполнение работы

Перейдем в директорию `/var/www/html/` и склонируем репозиторий командой: `"git clone https://github.com/digininja/DVWA.git"`

```
(gedeon@kali)-[~]
└─$ /var/www/html

(gedeon@kali)-[/var/www/html]
└─$ sudo git clone https://github.com/digininja/DVWA.git
[sudo] password for gedeon:
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 184), reused 267 (delta 139), pack-reused 4450 (from 1)
Receiving objects: 100% (4784/4784), 2.39 MiB | 1.99 MiB/s, done.
Resolving deltas: 100% (2279/2279), done.

(gedeon@kali)-[/var/www/html]
└─$ ls
DVWA  index.html  index.nginx-debian.html
```

Перейдем в директорию `config` и скопируем содержимое файла `config.inc.php.dist` в файл `config.inc.php` командой: `"cp config.inc.php.dist config.inc.php"`:

```
CHANGELOG.md  README.es.md  README.ko.md  README.vi.md  compose.yml  dvwa  index.php  php.ini  security.txt
COPYING.txt   README.fa.md  README.md     README.zh.md  config       external  instructions.php  phpinfo.php  setup.php
Dockerfile    README.fr.md  README.pt.md  SECURITY.md    database     favicon.ico  login.php        robots.txt   tests
README.ar.md  README.id.md  README.tr.md  about.php     docs         hackable    logout.php       security.php  vulnerabilities

(gedeon@kali)-[/var/www/html/DVWA]
└─$ cd config

(gedeon@kali)-[/var/www/html/DVWA/config]
└─$ ls
config.inc.php.dist

(gedeon@kali)-[/var/www/html/DVWA/config]
└─$ cp config.inc.php.dist config.inc.php

(gedeon@kali)-[/var/www/html/DVWA/config]
└─$ sudo mousepad config.inc.php
```

Откроем файл с помощью команды: `"nano config.inc.php"`

```
GNU nano 8.1                                config.inc.php
$?php
# If you are having problems connecting to the MySQL database and all of the va>
# try changing the 'db_server' variable from localhost to 127.0.0.1. Fixes a pr>
# 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 >
# Please use a database dedicated to DVWA.
#
# If you are using MariaDB then you cannot use root, you must use create a dedi>
# 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';

[ Read 56 lines (converted from DOS format) ]
^G Help      ^O Write Out ^F Where Is  ^K Cut       ^T Execute   ^C Location
^X Exit      ^R Read File ^\ Replace   ^U Paste     ^J Justify   ^_ Go To Line
```

Теперь перейдем к созданию базы данных и пользователя в соответствии с файлом config.inc.php:

```
root@kali: /var/www/html/DVWA/config
File Actions Edit View Help
(root@kali)-[/var/www/html/DVWA/config]
# mysql
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)]> create database dvwa;
Query OK, 1 row affected (0.000 sec)

MariaDB [(none)]> create user dvwa@localhost identified by 'p@ssw0rd';
Query OK, 0 rows affected (0.011 sec)

MariaDB [(none)]> grant all on dvwa.* to dvwa@localhost;
Query OK, 0 rows affected (0.010 sec)

MariaDB [(none)]> flush privileges;
Query OK, 0 rows affected (0.002 sec)
```

Для корректной работы переменные allow\_url\_include и allow\_url\_fopen должны иметь значения On.

```
GNU nano 8.1                                php.ini
upload_max_filesize = 2M

; Maximum number of files that can be uploaded via a single request
max_file_uploads = 20

;;;;;;;;;;;;;;;;
; Fopen wrappers ;
;;;;;;;;;;;;;;;;

; Whether to allow the treatment of URLs (like http:// or ftp://) as files.
; https://php.net/allow-url-fopen
allow_url_fopen = 0

; Whether to allow include/require to open URLs (like https:// or ftp://) as
; https://php.net/allow-url-include
allow_url_include = 0

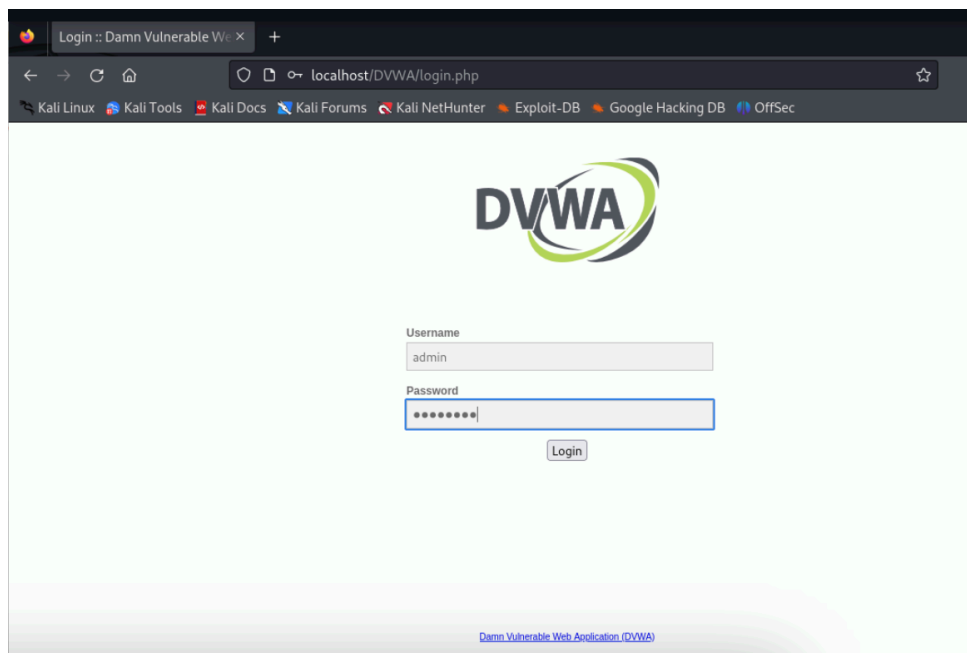
; Define the anonymous ftp password (your email address). PHP's default sett
; for this is empty.
; https://php.net/from
;from="john@doe.com"

; Define the User-Agent string. PHP's default setting for this is empty.

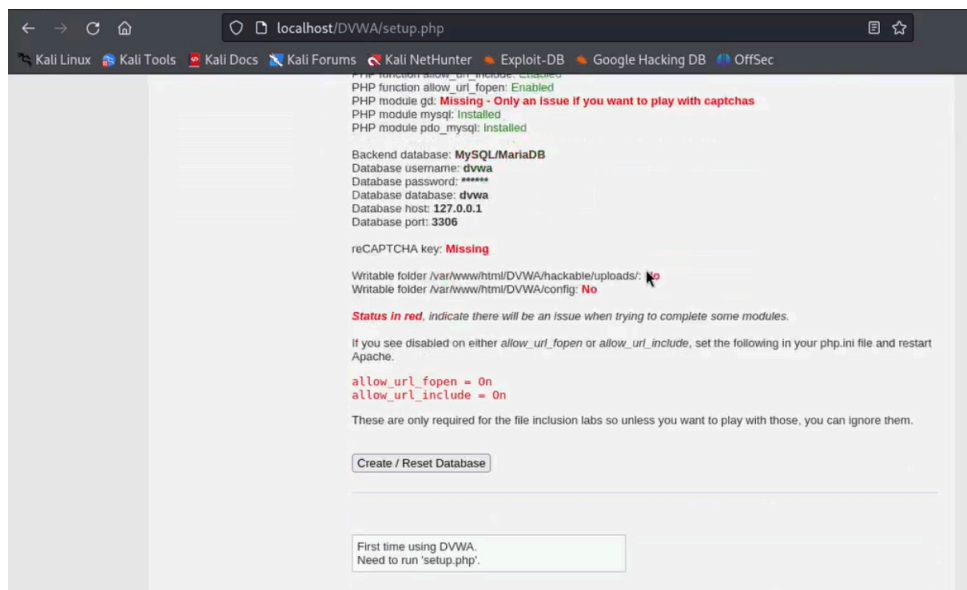
^G Help      ^O Write Out  ^F Where Is   ^K Cut        ^T Execute
^X Exit      ^R Read File  ^\ Replace    ^U Paste      ^J Justify
```

Теперь перейдем по адресу <https://127.0.0.1/DVWA/login.php>.

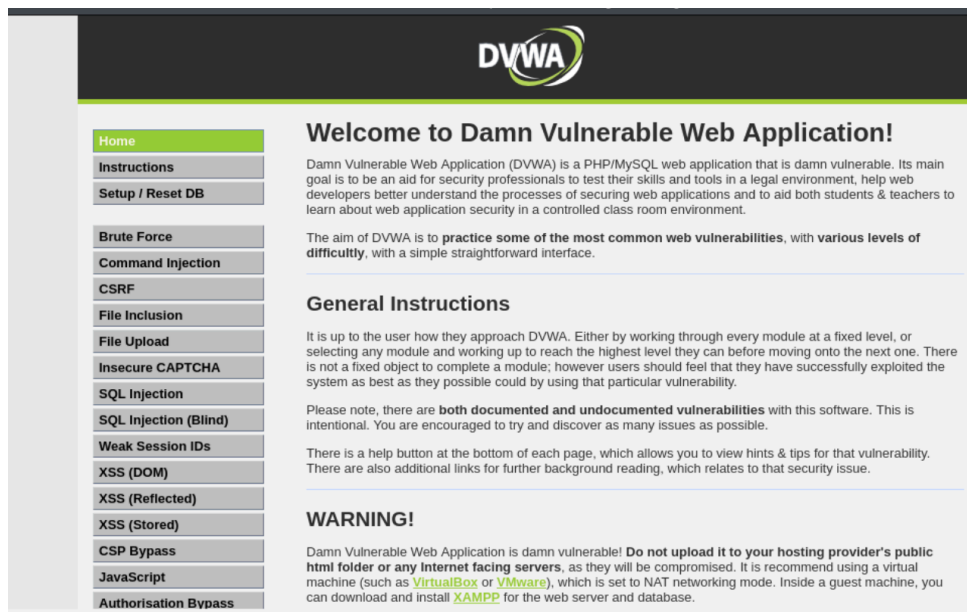
В форму авторизации введем имя пользователя-admin и пароль-password.



Перейдя на страницу приложения, прокрутим ее вниз до кнопки "Create / Reset Database" и нажмем на нее. После авторизуемся повторно:



Веб-приложение DVWA установлено.



## Вывод

Я приобрел практический навык установки и развертывания веб-приложений DVWA в гостевую систему к Kali Linux.