Индивидуальный проект этап 2

Информационная безопасность

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Цель работы

- Научиться основным способам тестирования веб приложений
- Установить и настроить DVWA на Kali linux

Выполнение лабораторной работы

1. Клонировал DVWA c https://github.com/digininja/DVWA

```
(ksudzuki® KSudzuki)-[/var/www/html]
$ sudo git clone https://github.com/digininja/DVWA
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 | 387.00 KiB/s, done.
Resolving deltas: 100% (2296/2296), done.
```

2. Переименовал директорию DVWA на dvwa

```
___(ksudzuki@KSudzuki)-[/var/www/html]
_$ <u>sudo</u> mv DVWA dvwa
```

3. Задал права пользователя для директории

```
(ksudzuki@KSudzuki)-[/var/www/html]

$\sudo chmod -R 777 dvwa/
```

4. Зашел в директорию dvwa/config

```
___(ksudzuki@KSudzuki)-[/var/www/html]
_$ cd dvwa/config
```

5. Проверил что в ней есть

6. Открыл файл config.inc.php

```
___(ksudzuki⊕ KSudzuki)-[/var/www/html/dvwa/config]
_$ sudo nano config.inc.php
```

7. Файл config.inc.php

```
GNU nano 8.1
<?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' ] = 'user#;
$_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/recaptcha/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', 'medium', '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';
```

8. Заменил в нем db_user и db_password на user и pass

```
GNU nano 8.1
# 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();
# 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' ] = '';
# 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', 'medium', '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';
```

9. Посмотрел мой mysql-server

10. Установил mysql-server

```
(ksudzuki⊕ KSudzuki)-[~]

$ sudo apt install default-mysql-server
[sudo] password for ksudzuki:
default-mysql-server is already the newest version (1.1.1).
default-mysql-server set to manually installed.
Summary:
Upgrading: 0, Installing: 0, Removing: 0, Not Upgrading: 484
```

11. Запустил mysql

```
—(ksudzuki⊕KSudzuki)-[~]
—$ <u>sudo</u> service mysql start
```

12. Посмотрел статус mysql

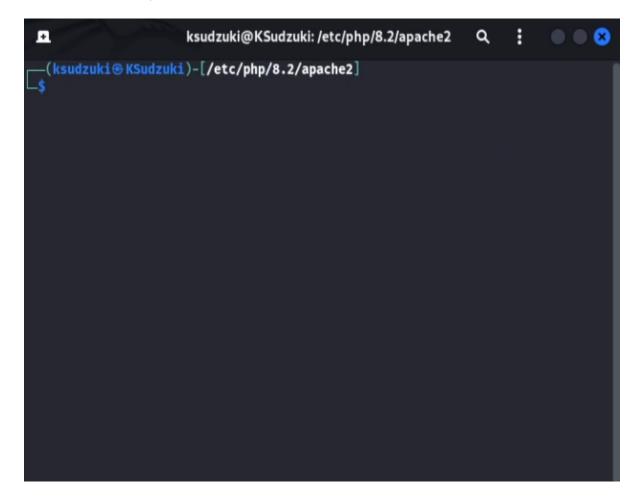
```
** avariable, service - Mariable 11-42 database server
Loaded: Loaded:
```

13. Зашел в mysql

14. Создал пользователя и дал ему все права

```
(ksudzuki® KSudzuki)-[~]
$ sudo mysql -u root -p
[sudo] password for ksudzuki:
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)]> create user 'user'@'127.0.0.1' identified by 'pass';
Query OK, 0 rows affected (0.002 sec)
MariaDB [(none)]> grant all privileges on dvwa.* to [user'@'127.0.0.1' identified by 'pass';
```

15. Зашёл в папку /etc/php/8.2/apache2



16. Посмотрел что в ней есть и открыл файл php.ini

```
ksudzuki@KSudzuki:/etc/php/8.2/apache2]

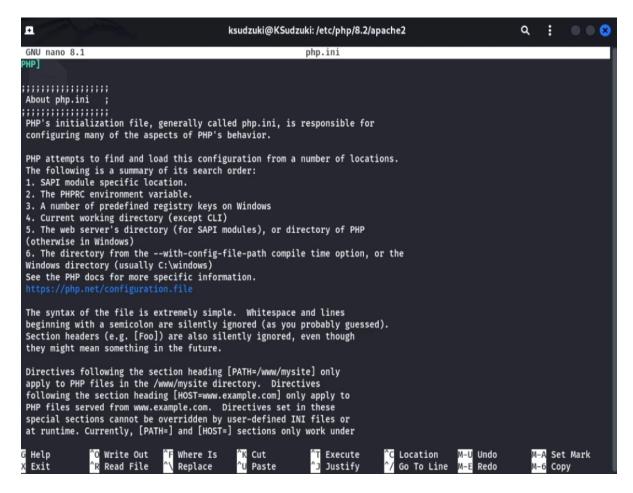
(ksudzuki@KSudzuki)-[/etc/php/8.2/apache2]

$ ls
conf.d php.ini

(ksudzuki@KSudzuki)-[/etc/php/8.2/apache2]

$ sudo nano php.ini
```

17. Файл php.ini



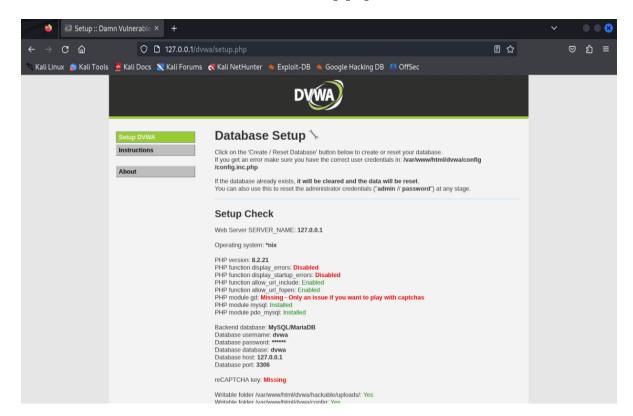
18. Нашел в нем allow url fopen и allow url include и поменял на "On"

```
а
                                                                                                             Q : 00 8
                                             ksudzuki@KSudzuki: /etc/php/8.2/apache2
 GNU nano 8.1
                                                              php.ini *
                  /upload-tmp-dir
upload_tmp_dir =
 Maximum allowed size for uploaded files.
pload_max_filesize = 2M
 Maximum number of files that can be uploaded via a single request
nax_file_uploads = 20
......
 Fopen wrappers ;
 Whether to allow the treatment of URLs (like http:// or ftp://) as files.
llow_url_fopen = On
 Whether to allow include/require to open URLs (like https:// or ftp://) as files.
llow_url_include = On
 Define the anonymous ftp password (your email address). PHP's default setting
 for this is empty.
from="john@doe.com"
 Define the User-Agent string. PHP's default setting for this is empty.
nttps://php.net/user-agent
user_agent="PHP"
 Default timeout for socket based streams (seconds)
               ^O Write Out
^R Read File
                               ^F Where Is
^\ Replace
                                               ^K Cut
^U Paste
                                                               ^T Execute
^J Justify
                                                                               ^C Location
^/ Go To Line
                                                                                               M-U Undo
                                                                                                               M-A Set Mark
  Help
X Exit
                                                                                               M-E Redo
                                                                                                                M-6 Copy
```

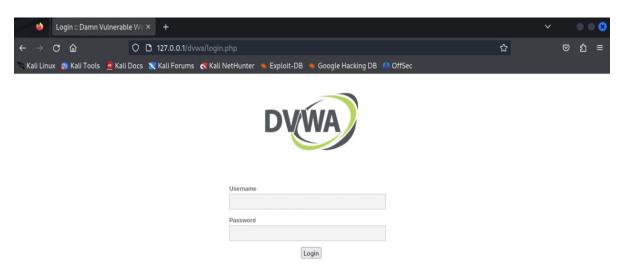
19. Запустил арасhe2 и проверил его статус

```
—(ksudzuki⊕KSudzuki)-[/etc/php/8.2/apache2]
 $ sudo service apache2 start
  —(ksudzuki⊕KSudzuki)-[/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 20:57:53 MSK; 23s ago
Invocation: 5f655a8aea7a4b71abaa62f1b5143ac1
       Docs: https://httpd.apache.org/docs/2.4/
    Process: 3545 ExecStart=/usr/sbin/apachectl start (code=exited, status=0/SUCCESS)
  Main PID: 3561 (apache2)
     Tasks: 7 (limit: 4606)
Memory: 20.6M (peak: 21.5M)
         CPU: 33ms
     CGroup: /system.slice/apache2.service
                 —3561 /usr/sbin/apache2 -k start
—3564 /usr/sbin/apache2 -k start
                 —3566 /usr/sbin/apache2 -k start
—3567 /usr/sbin/apache2 -k start
                 _3568 /usr/sbin/apache2 -k start
_3569 /usr/sbin/apache2 -k start
Sep 21 20:57:53 KSudzuki systemd[1]: Starting apache2.service - The Apache HTTP Server...
Sep 21 20:57:53 KSudzuki apachectl[3560]: AH00558: apache2: Could not reliably determine the server's fully qualified do>
Sep 21 20:57:53 KSudzuki systemd[1]: Started apache2.service - The Apache HTTP Server.
```

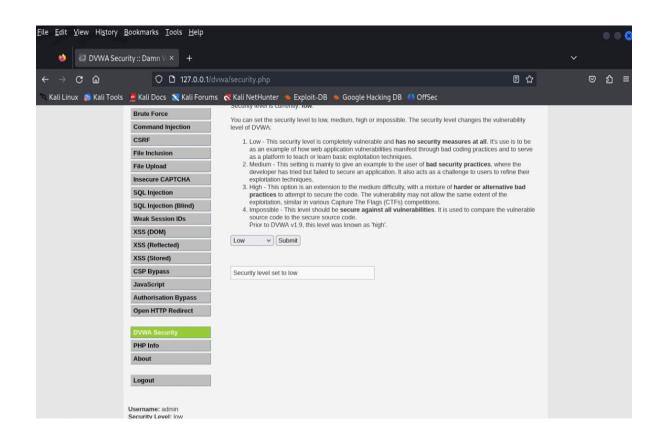
20. Зашёл на Localhost 127.0.0.1/dvwa/setup.php



21. Ввёл логин и пароль admin password



22. Поменял защиту на low



Выводы

• Установил и настроил DVWA на Kali linux