Индивидуальный проект этап 2 Информационная безопасность

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Цели и задачи

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

1. Клонировал DVWA с 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]
$\frac{\sudo}{\sudo} 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

```
___(ksudzuki⊕ KSudzuki)-[/var/www/html/dvwa/config]

$\_$ ls
config.inc.php config.inc.php.dist \[ \]
```

6. Открыл файл config.inc.php

```
(ksudzuki⊕ KSudzuki)-[/var/www/html/dvwa/config]
$\frac{1}{2}$ sudo nano config.inc.php
```

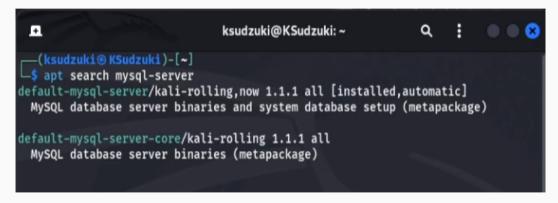
7. Файл config.inc.php

```
GNII 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 adigining for the fix.
# Database management system to use
 SDBMS = 'MVSQL':
#$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 = arrav():
 DVWA[ 'db server' ]
                       = getenv('DB_SERVER') ?: '127.0.0.1';
        'db database' ] = 'dvwa':
 S DVWA[ 'db user' ]
                        = 'user":
 DVWA[ 'db password' ] = 'p@ssw@rd';
 DVWA[ 'db port']
# 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';
```

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 adigining for the fix.
# Database management system to use
 SDBMS = 'MySQL';
#$DBMS = 'PGSOL': // 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 = arrav():
 DVWA[ 'db server' ] = geteny('DB SERVER') ?: '127.0.0.1';
 DVWA[ 'db database' ] = 'dvwa':
 DVWA[ 'db user' ]
                       = 'user'
S DVWA[ 'db password' ] = 'pass'
 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':
```

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

```
___(ksudzuki⊕ KSudzuki)-[~]

$\systemctl status mysql
```

```
mariadb.service - MariaDB 11.4.2 database server
    Loaded: loaded (/usr/lib/systemd/system/mariadb.service: disabled: preset: disabled)
    Active: active (running) since Sat 2024-09-21 20:42:55 MSK: 37s ago
 Invocation: 0f9e52dd8a9a4a189dc2d3he25d0dh47
     Docs: man:mariadbd(8)
            https://mariadb.com/kb/en/library/systemd/
   Process: 3041 ExecStartPre=/usr/bin/install -m 755 -o mysql -g root -d /var/run/mysqld (code=exited, status=0/SUCCESS)
   Process: 3043 ExecStartPre=/bin/sh -c systemctl unset-environment MSREP START POSITION (code=exited, status=0/SUCCESS)
   Process: 3046 ExecStartPre=/bin/sh -c [1 -e /usr/bin/galera_recovery ] 56 VAR= || VAR='cd /usr/bin/galera_recovery'; [$7 -eq 0 ] 56 systemett set-environment _WSREP_START_POSITION=$VAR || exit 1 (code=exited, status
   Process: 3119 ExecStartPost=/bin/sh -c systemctl unset-environment WSREP START POSITION (code=exited, status=0/SUCCESS)
   Process: 3121 FxecStartPost=/etc/musql/debian-start (code=exited, status=8/SMCFSS)
  Main PID: 3105 (mariadhd)
   Status: "Taking your SOL requests now..."
    Tasks: 14 (limit: 30401)
    Memory: 241.5M (peak: 246.1M)
      CPU: 1.170s
    CGroup: /system.slice/mariadh.service
ep 21 20:42:54 KSudzuki mariadbd[3105]: 2024-09-21 20:42:54 0 [Note] Plugin 'wsrep-provider' is disabled.
sep 21 20:42:54 KSudzuki mariadbd[3105]: 2024-09-21 20:42:54 0 [Note] InnoDB: Buffer pool(s) load completed at 240921 20:42:54
Sep 21 20:42:55 KSudzuki mariadbd[3105]: 2024-09-21 20:42:55 0 [Note] Server socket created on IP: '127.0.0.1'.
Sep 21 20:42:55 KSudzuki mariadbd[3105]: 2024-09-21 20:42:55 0 [Note] mariadbd: Event Scheduler: Loaded 0 events
Sep 21 20:42:55 KSudzuki mariadbd[3105]: 2024-09-21 20:42:55 0 [Note] /usr/sbin/mariadbd: ready for connections
Sep 21 20:42:55 KSudzuki mariadbd[3105]: Version: '11.4.2-MariaDR-4' socket: '/run/mysold/mysold.sock' port: 3306 Debian n/a
Sep 21 20:42:55 KSudzuki systemd[1]: Started mariadb.service - MariaDB 11.4.2 database server.
Sep 21 20:42:55 KSudzuki /etc/mysgl/debian-start[3124]: Upgrading MariaDB tables if necessary.
Sep 21 20:42:55 KSudzuki /etc/mysql/debian-start[3136]: Checking for insecure root accounts.
sep 21 20:42:55 KSudzuki /etc/mysgl/debian-start[3140]: Triggering myisam-recover for all MyISAM tables and aria-recover for all Aria tables
```

13. Зашел в mysql

```
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)]>
```

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 \@.
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';
```

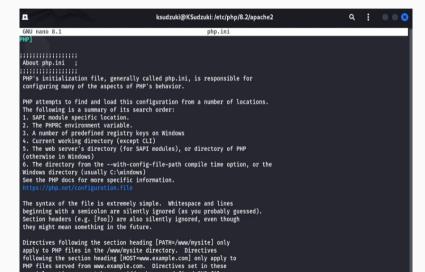
15. Зашёл в папку /etc/php/8.2/apache2

```
Ω
                    ksudzuki@KSudzuki: /etc/php/8.2/apache2
—(ksudzuki⊕KSudzuki)-[/etc/php/8.2/apache2]
```

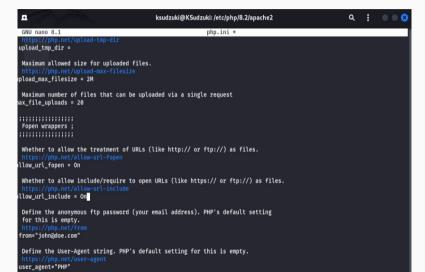
16. Посмотрел что в ней есть и открыл файл php.ini

```
Ω
                      ksudzuki@KSudzuki: /etc/php/8.2/ap
 -(ksudzuki®KSudzuki)-[/etc/php/8.2/apache2]
onf.d
       php.ini
  ·(ksudzuki®KSudzuki)-[/etc/php/8.2/apache2]
  sudo nano php.ini
```

17. Файл php.ini



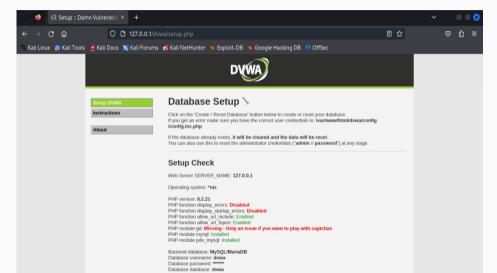
18. Hameл в нем allow_url_fopen и allow_url_include и поменял на "On"



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
            -3565 /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
```

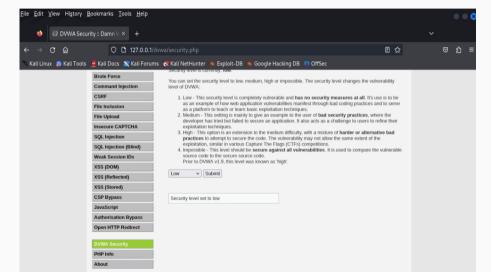
20. Зашёл на Localhost 127.0.0.1/dvwa/setup.php



21. Ввёл логин и пароль admin password



22. Поменял защиту на low



Выводы

• Установил и настроил DVWA на Kali linux