## Презентация по 2 этапу индивидуального проекта

Установка DVWA

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# Информация

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# Цели и задачи

## Цель работы

Установить DVWA в гостевую систему к Kali Linux и ознакомиться.

## Задачи

• Установить DVWA в гостевую систему к Kali Linux и ознакомиться.

## Результаты

```
[sudo] password for etanribergenov:
    root®etanribergenov)-[/home/etanribergenov]
  # apt-get install dvwa
Reading package lists ... Done
Building dependency tree ... Done
Reading state information ... Done
The following additional packages will be installed:
  libapache2-mod-php8.2 php8.2 php8.2-cli php8.2-common
  php8.2-readline
```

**Рис. 1:** Загрузка DVWA

Рис. 2: Установка необходимых пакетов

```
(root@ etanribergenov)-[/var/www/html]
# git clone https://github.com/digininja/DVWA.git
Cloning into 'DVWA'...
remote: Enumerating objects: 4857, done.
remote: Counting objects: 100% (17/17), done.
remote: Compressing objects: 100% (13/13), done.
remote: Total 4857 (delta 5), reused 11 (delta 4), pack-reused 4840 (from 1)
Receiving objects: 100% (4857/4857), 2.43 MiB | 1.10 MiB/s, done.
Resolving deltas: 100% (2342/2342), done.
```

**Рис. 3:** Клонирование репозитория DVWA

```
root@etanribergenov)-[/var/www/html/DVWA/config]
—# cd /var/www/html
  (root® etanribergenov)-[/var/www/html]
   my DVWA dywa
   root⊛etanribergenov)-[/var/www/html]
   chmod -R 777 dvwa
```

Рис. 4: Изменение имени и прав директории

```
root@etanribergenov)-[/var/www/html]
cd DVWA/config
(root®etanribergenov)-[/var/www/html/DVWA/config]
cp config.inc.php.dist config.inc.php
(root®etanribergenov)-[/var/www/html/DVWA/config]
nano config.inc.php
```

Рис. 5: Редактирование конфиг. файла

```
root@etanribergenov: /var/www/html/dvwa/config
File Actions Edit View Help
GNU nano 8.1
                                                   config.inc.php *
<?php
# If you are having problems connecting to the MySQL database and all of the variables
# try changing the 'db server' variable from localhost to 127.0.0.1. Fixes a problem
# Thanks to @digininja for the fix.
# Database management system to use
$DBMS = getenv('DBMS') ?: 'MySQL';
#$DBMS = 'PGSQL'; // Currently disabled
# Database variables
   WARNING: The database specified under db database WILL BE ENTIRELY DELETED during
   Please use a database dedicated to DVWA.
# If you are using MariaDB then you cannot use root, you must use create a dedicated [
   See README.md for more information on this.
$ DVWA[ 'db server' ] = geteny('DB SERVER') ?: '127.0.0.1':
$_DVWA[ 'db_database' ] = getenv('DB_DATABASE') ?: 'dvwa';
$ DVWA[ 'db_user' ] = getenv('DB_USER') ?: 'etanribergenov';
$ DVWA[ 'db password' ] = getenv('DB PASSWORD') ?: 'pass':
                      = getenv('DB_PORT') ?: '3306';
$ DVWAF 'db port'1
 Pocapicus cottinge
```

Рис. 6: Редактирование конфиг. файла: задание имени и пароля пользователя

```
(root@etanribergenov)-[/var/www/html/DVWA/config]
# cd /etc/php/8.2/apache2

(root@etanribergenov)-[/etc/php/8.2/apache2]
# mousepad php.ini
```

Рис. 7: Конфигурирование apache2

```
*/etc/php/8.2/apache2/php.ini - Mousepad
File Edit Search View Document Help
                       5 ¢ % 6 û
                                           QRA
          Warning: you are using the root account. You may harm your system.
OJJ UPLUAU MAX ITLESTEE - ZM
 856
857; Maximum number of files that can be uploaded via a single request
858 max_file_uploads = 20
859
861; Fopen wrappers;
863
864; Whether to allow the treatment of URLs (like http:// or ftp://) as
865: https://php.net/allow-url-fopen
866 allow url fopen = On
867
868: Whether to allow include/require to open URLs (like https:// or ftp://)
869: https://php.net/allow-url-include
870 allow_url_include = On
```

Рис. 8: Конфигурирование apache2

```
(root@etanribergenov)-[/etc/php/8.2/apache2]

# service apache2 start
```

Рис. 9: Запуск арасће2

```
etanribergenov)-[/var/www/html/dvwa/config
  service mysgl start
         etanribergenov)-[/var/www/html/dvwa/config
   systematl 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 Mon 2024-11-18 08:29:57 MSK; 14s ago
Invocation: adbfeb9338834bc3bd3ecb30c7069555
      Docs: man:mariadbd(8)
            https://mariadb.com/kb/en/library/systemd/
    Process: 103425 ExecStartPre=/usr/bin/install -m 755 -o mvsgl -g root -d /var/run/mvsgld (code=exited, stat>
   Process: 103427 ExecStartPre=/bin/sh -c systemctl unset-environment WSREP START POSITION (code=exited, sta>
   Process: 103429 ExecStartPre=/bin/sh -c [ ! -e /usr/bin/galera recovery ] 86 VAR= || VAR= cd /usr/bin/..:>
   Process: 103512 ExecStartPost=/bin/sh -c systemctl unset-environment WSREP_START_POSITION (code=exited, st>
   Process: 103514 ExecStartPost=/etc/mysql/debian-start (code=exited, status=0/SUCCESS)
  Main PID: 103490 (mariadbd)
    Status: "Taking your SOL requests now..."
     Tasks: 14 (limit: 62286)
    Memory: 239.7M (peak: 244.4M)
       CPII: 2.046s
    CGroup: /system.slice/mariadb.service
             L103490 /usr/shin/mariadhd
```

Рис. 10: Проверка запуска apache2

```
- mvsal -u root -p
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 'etanribergenoy'@'127.0.0.1' identified by 'pass';
Query OK. 0 rows affected (0.008 sec)
MariaDB [(none)]>
```

Рис. 11: Создание пользователя в базе данных

```
MariaDB [(none)]> grant all privileges on dvwa.* to 'etanribergenov'@'127.0.0.1' identified by 'pass';
Query OK, 0 rows affected (0.007 sec)

MariaDB [(none)]>
```

Рис. 12: Предоставление пользователю всех привелегий

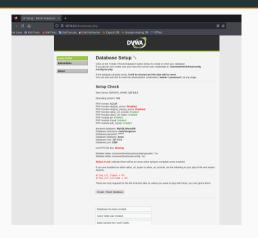
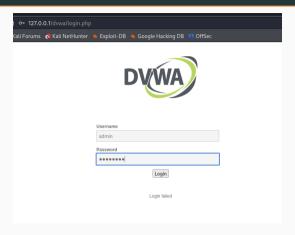


Рис. 13: Открытие DVWA в браузере, создание/сброс базы данных



**Рис. 14:** Вход от имени admin

## Испытание DVWA

	DVWA
Home	Vulnerability: Brute Force
Instructions	Login
Setup / Reset DB	Login
	Username:
Brute Force	admin Password:
Command Injection	••••••
CSRF	Login
File Inclusion	(203)

**Рис. 15:** Проверка brute force

## Испытание DVWA

Instructions	Login
Setup / Reset DB	209
	Username:
Brute Force	Password:
Command Injection	T door to do
CSRF	Login
File Inclusion	
File Upload	Welcome to the password protected area admin
Insecure CAPTCHA	
SQL Injection	
SQL Injection (Blind)	
Weak Session IDs	Mana Information
	More Information

**Рис. 16:** Проверка brute force: результат

## Испытание DVWA

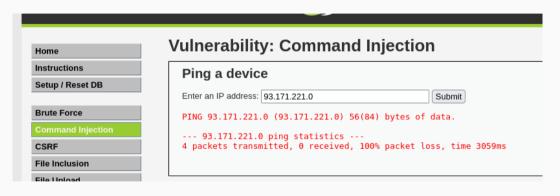


Рис. 17: Проверка коммандной вставки

# Вывод

## Вывод

В результате выполнения работы я ознакомился с дистрибутивом Kali Linux, установив его на виртуальную машину VirtualBox.