

Индивидуальный проект этап2

Основы информационной безопасности

Сабралиева М. Н.

Российский университет дружбы народов, Москва, Россия

Информация

- Сабралиева Марворид Нуралиевна
- студентка НБИбд-01-22
- кафедры прикладной информатики и теории вероятностей
- Российский университет дружбы народов

Создание презентации

- Использование LaTeX
- Пакет для презентации: beamer
- Тема оформления: **metropolis**

```
slide_level: 2  
aspectratio: 169  
section-titles: true  
theme: metropolis
```

- Используется фреймворк `reveal.js`
- Используется тема `beige`

- Тема задаётся в файле `Makefile`

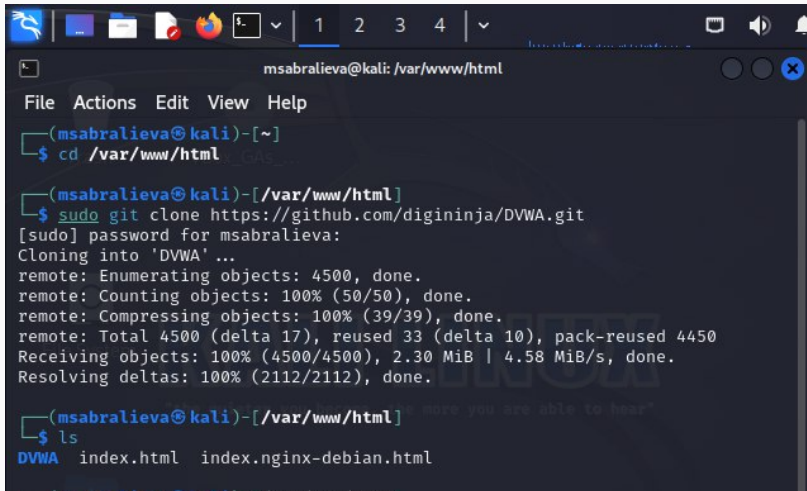
```
REVEALJS_THEME = beige
```


Элементы презентации

- Установить DVWA в гостевую систему к Kali Linux.

Содержание исследования

Установим DVWA в гостевую систему к Kali Linux с помощью клонирования из гитхаба и проведем дальнейшую установку



```
msabralieva@kali: /var/www/html

File Actions Edit View Help

(msabralieva@kali)-[~]
$ cd /var/www/html

(msabralieva@kali)-[/var/www/html]
$ sudo git clone https://github.com/digininja/DVWA.git
[sudo] password for msabralieva:
Cloning into 'DVWA'...
remote: Enumerating objects: 4500, done.
remote: Counting objects: 100% (50/50), done.
remote: Compressing objects: 100% (39/39), done.
remote: Total 4500 (delta 17), reused 33 (delta 10), pack-reused 4450
Receiving objects: 100% (4500/4500), 2.30 MiB | 4.58 MiB/s, done.
Resolving deltas: 100% (2112/2112), done.

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

```
(msabralieva@kali)-[/var/www/html]
$ sudo chmod -R 777 DVWA

(msabralieva@kali)-[/var/www/html]
$ ls
DVWA  index.html  index.nginx-debian.html

(msabralieva@kali)-[/var/www/html]
$
```

Рис. 2: Процесс установки

```
(msabralieva@kali)-[/var/www/html]
$ cd DVWA

(msabralieva@kali)-[/var/www/html/DVWA]
$ ls
CHANGELOG.md  README.es.md  README.md  SECURITY.md  database  favicon.ico  login.php  robots.txt  tests
COPYING.txt   README.fa.md  README.pt.md  about.php   docs      hackable     logout.php  security.php  vulnerabilities
Dockerfile    README.fr.md  README.tr.md  compose.yml  dvwa      index.php    php.ini    security.txt
README.ar.md  README.id.md  README.zh.md  config      external  instructions.php  phpinfo.php  setup.php

(msabralieva@kali)-[/var/www/html/DVWA]
$
```

Рис. 3: Процесс установки

```
(msabralieva@kali)-[/var/www/html/DVWA]
$ cd config

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

(msabralieva@kali)-[/var/www/html/DVWA/config]
$ cp

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

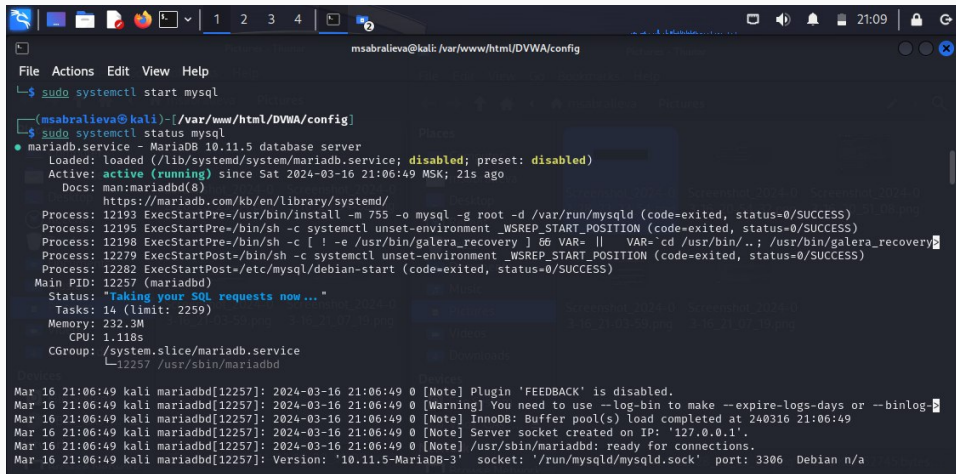
(msabralieva@kali)-[/var/www/html/DVWA/config]
$ sudo mousepad config.inc.php
```

Рис. 4: Процесс установки

```
msabralieva@kali: /var/www/html/DVWA/config
File Actions Edit View Help
● mariadb.service - MariaDB 10.11.5 database server
  Loaded: loaded (/lib/systemd/system/mariadb.service; disabled; preset: disabled)
  Active: active (running) since Sat 2024-03-16 21:06:49 MSK; 21s ago
  Docs: man:mariadb(8)
        https://mariadb.com/kb/en/library/systemd/
  Process: 12193 ExecStartPre=/usr/bin/install -m 755 -o mysql -g root -d /var/run/mysqld (code=exited, status=0/SUCCESS)
  Process: 12195 ExecStartPre=/bin/sh -c systemctl unset-environment _WSREP_START_POSITION (code=exited, status=0/SUCCESS)
  Process: 12198 ExecStartPre=/bin/sh -c [ ! -e /usr/bin/galera_recovery ] && VAR= || VAR=`cd /usr/bin/..; /usr/bin/galera_recovery`
  Process: 12279 ExecStartPost=/bin/sh -c systemctl unset-environment _WSREP_START_POSITION (code=exited, status=0/SUCCESS)
  Process: 12282 ExecStartPost=/etc/mysql/debian-start (code=exited, status=0/SUCCESS)
  Main PID: 12257 (mariabdd)
  Status: "Taking your SQL requests now..."
  Tasks: 14 (limit: 2259)
  Memory: 232.3M
  CPU: 1.118s
  CGroup: /system.slice/mariadb.service
          └─12257 /usr/sbin/mariabdd

Mar 16 21:06:49 kali mariabdd[12257]: 2024-03-16 21:06:49 0 [Note] Plugin 'FEEDBACK' is disabled.
Mar 16 21:06:49 kali mariabdd[12257]: 2024-03-16 21:06:49 0 [Warning] You need to use --log-bin to make --expire-logs-days or --binlog-
Mar 16 21:06:49 kali mariabdd[12257]: 2024-03-16 21:06:49 0 [Note] InnoDB: Buffer pool(s) load completed at 240316 21:06:49
Mar 16 21:06:49 kali mariabdd[12257]: 2024-03-16 21:06:49 0 [Note] Server socket created on IP: '127.0.0.1'.
Mar 16 21:06:49 kali mariabdd[12257]: 2024-03-16 21:06:49 0 [Note] /usr/sbin/mariabdd: ready for connections.
Mar 16 21:06:49 kali mariabdd[12257]: Version: '10.11.5-MariaDB-3' socket: '/run/mysqld/mysqld.sock' port: 3306 Debian n/a
Mar 16 21:06:49 kali systemd[1]: Started mariadb.service - MariaDB 10.11.5 database server.
Mar 16 21:06:49 kali /etc/mysql/debian-start[12284]: Upgrading MariaDB tables if necessary.
Mar 16 21:06:49 kali /etc/mysql/debian-start[12296]: Checking for insecure root accounts.
lines 1-27
```

Рис. 5: Процесс установки



```
msabralieva@kali: /var/www/html/DVWA/config
File Actions Edit View Help
└─$ sudo systemctl start mysql

(msabralieva@kali)-[/var/www/html/DVWA/config]
└─$ sudo systemctl status mysql
● mariadb.service - MariaDB 10.11.5 database server
   Loaded: loaded (/lib/systemd/system/mariadb.service; disabled; preset: disabled)
   Active: active (running) since Sat 2024-03-16 21:06:49 MSK; 21s ago
     Docs: man:mariadb(8)
           https://mariadb.com/kb/en/library/systemd/
   Process: 12193 ExecStartPre=/usr/bin/install -m 755 -o mysql -g root -d /var/run/mysqld (code=exited, status=0/SUCCESS)
   Process: 12195 ExecStartPre=/bin/sh -c systemctl unset-environment _WSREP_START_POSITION (code=exited, status=0/SUCCESS)
   Process: 12198 ExecStartPre=/bin/sh -c [ ! -e /usr/bin/galera_recovery ] && VAR= || VAR=`cd /usr/bin/..; /usr/bin/galera_recovery`
   Process: 12279 ExecStartPost=/bin/sh -c systemctl unset-environment _WSREP_START_POSITION (code=exited, status=0/SUCCESS)
   Process: 12282 ExecStartPost=/etc/mysql/debian-start (code=exited, status=0/SUCCESS)
  Main PID: 12257 (mariabdd)
    Status: "Taking your SQL requests now..."
     Tasks: 14 (limit: 2259)
    Memory: 232.3M
       CPU: 1.118s
    CGroup: /system.slice/mariadb.service
           └─12257 /usr/sbin/mariabdd

Mar 16 21:06:49 kali mariabdd[12257]: 2024-03-16 21:06:49 0 [Note] Plugin 'FEEDBACK' is disabled.
Mar 16 21:06:49 kali mariabdd[12257]: 2024-03-16 21:06:49 0 [Warning] You need to use --log-bin to make --expire-logs-days or --binlog-
Mar 16 21:06:49 kali mariabdd[12257]: 2024-03-16 21:06:49 0 [Note] InnoDB: Buffer pool(s) load completed at 240316 21:06:49
Mar 16 21:06:49 kali mariabdd[12257]: 2024-03-16 21:06:49 0 [Note] Server socket created on IP: '127.0.0.1'.
Mar 16 21:06:49 kali mariabdd[12257]: 2024-03-16 21:06:49 0 [Note] /usr/sbin/mariabdd: ready for connections.
Mar 16 21:06:49 kali mariabdd[12257]: Version: '10.11.5-MariaDB-3' socket: '/run/mysqld/mysqld.sock' port: 3306 Debian n/a
```

Рис. 6: Процесс установки


```
root@kali: /var/www/html/DVWA/config
File Actions Edit View Help
(msabralieva@kali)-[/var/www/html/DVWA/config]
$ sudo su
(root@kali)-[/var/www/html/DVWA/config]
# mysql -u root -p
Enter password:
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 31
Server version: 10.11.5-MariaDB-3 Debian n/a
Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

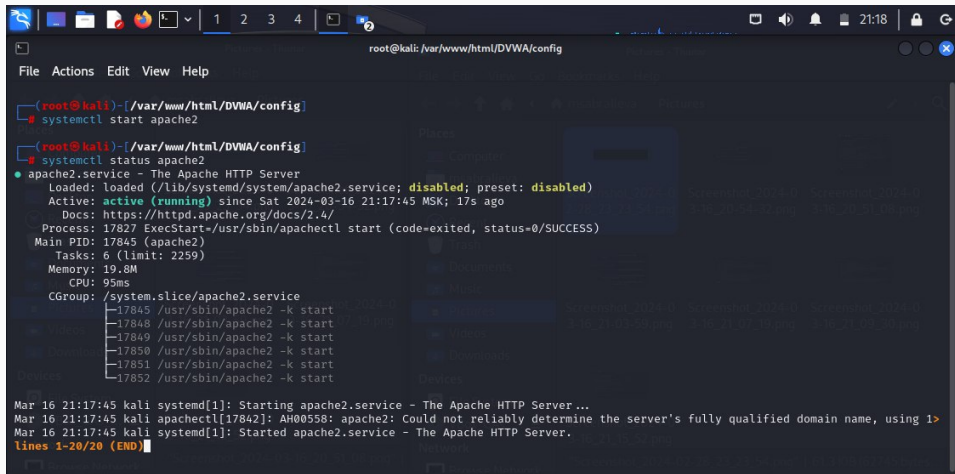
MariaDB [(none)]> create database dvwa;
Query OK, 1 row affected (0.001 sec)

MariaDB [(none)]> create user 'admin'@'127.0.0.1' identified by 'password';
Query OK, 0 rows affected (0.008 sec)

MariaDB [(none)]> grant all privileges on dvwa.* to 'admin'@'127.0.0.1';
Query OK, 0 rows affected (0.004 sec)

MariaDB [(none)]> exit
Bye
(root@kali)-[/var/www/html/DVWA/config]
```

Рис. 7: Процесс установки



```
root@kali: /var/www/html/DVWA/config
File Actions Edit View Help

(root@kali)-[/var/www/html/DVWA/config]
# systemctl start apache2

(root@kali)-[/var/www/html/DVWA/config]
# systemctl status apache2
● apache2.service - The Apache HTTP Server
   Loaded: loaded (/lib/systemd/system/apache2.service; disabled; preset: disabled)
   Active: active (running) since Sat 2024-03-16 21:17:45 MSK; 17s ago
     Docs: https://httpd.apache.org/docs/2.4/
   Process: 17827 ExecStart=/usr/sbin/apachectl start (code=exited, status=0/SUCCESS)
  Main PID: 17845 (apache2)
    Tasks: 6 (limit: 2259)
   Memory: 19.8M
      CPU: 95ms
   CGroup: /system.slice/apache2.service
           └─17845 /usr/sbin/apache2 -k start
             17848 /usr/sbin/apache2 -k start
             17849 /usr/sbin/apache2 -k start
             17850 /usr/sbin/apache2 -k start
             17851 /usr/sbin/apache2 -k start
             17852 /usr/sbin/apache2 -k start

Mar 16 21:17:45 kali systemd[1]: Starting apache2.service - The Apache HTTP Server...
Mar 16 21:17:45 kali apachectl[17842]: AH00558: apache2: Could not reliably determine the server's fully qualified domain name, using 1>
Mar 16 21:17:45 kali systemd[1]: Started apache2.service - The Apache HTTP Server.
lines 1-20/20 (END)
```

Рис. 8: Процесс установки

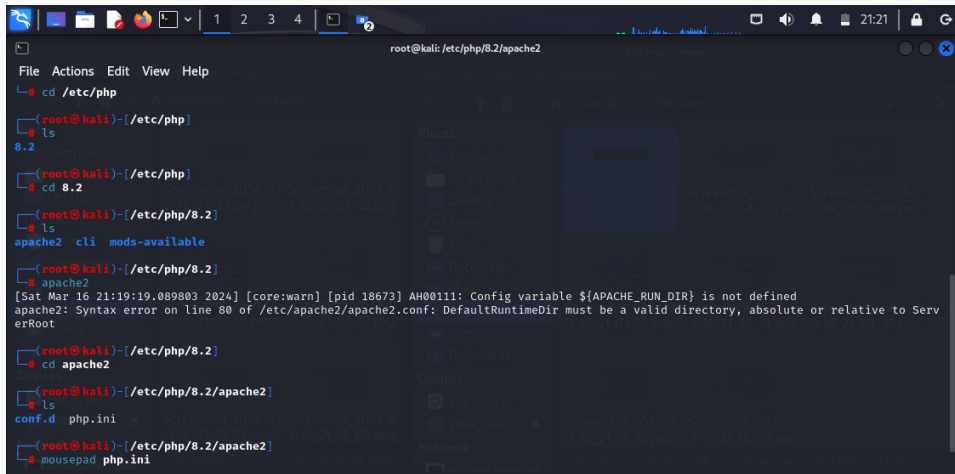


Рис. 9: Процесс установки

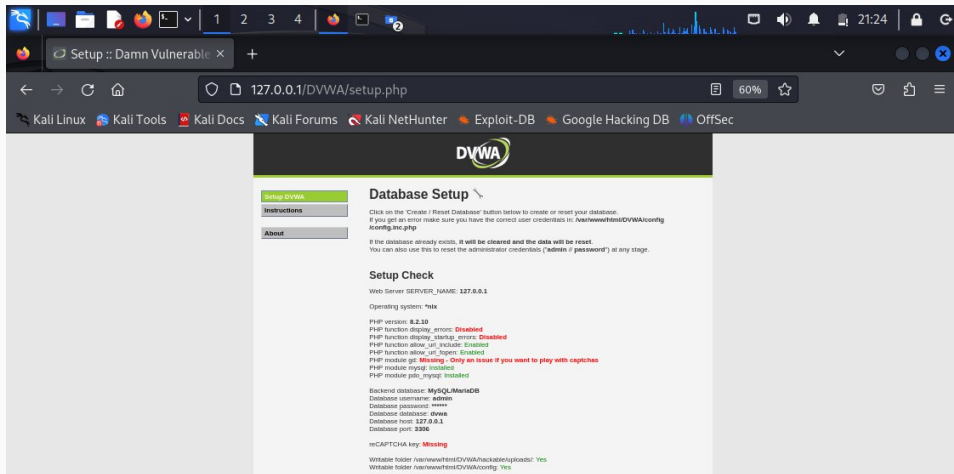


Рис. 10: Процесс установки

- В ходе выполнения данного этапа мы установили DVWA в гостевую систему к Kali Linux

- Запоминается последняя фраза. © Штирлиц

...