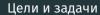
Индивидуальный проект

Основы информационной безопасности

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Вводная часть



Установить DVWA в гостевую систему к Kali Linux.

Материалы и методы

- Процессор **pandoc** для входного формата Markdown
- Результирующие форматы
 - · pdf
 - · html
- · Автоматизация процесса создания: Makefile

Создание презентации

Процессор pandoc

- · Pandoc: преобразователь текстовых файлов
- Сайт: https://pandoc.org/
- Репозиторий: https://github.com/jgm/pandoc

Формат pdf

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

Код для формата pdf

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

Формат html

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

Код для формата html

· Тема задаётся в файле Makefile

REVEALJS_THEME = beige

Результаты

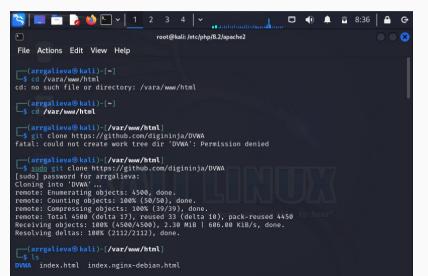
Получающиеся форматы

- \cdot Полученный pdf-файл можно демонстрировать в любой программе просмотра pdf
- · Полученный html-файл содержит в себе все ресурсы: изображения, css, скрипты

Элементы презентации

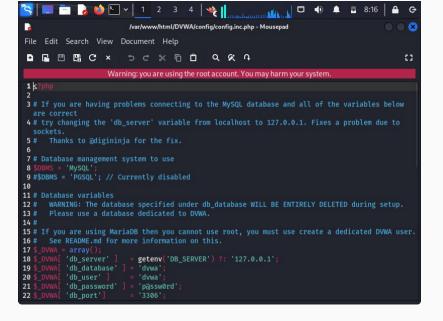
Содержание исследования

1. Устанавливаем DVWA при помощи различных команд и данного нам репозитория.





```
•
                                  root@kali: /etc/php/8.2/apache2
File Actions Edit View Help
-- (arrgalieva® kali)-[/var/www/html/DVWA/config]
config.inc.php.dist
-(arrgalieva@kali)-[/var/www/html/DVWA/config]
s cp config.inc.php.dist config.inc.php
-- (arrgalieva® kali)-[/var/www/html/DVWA/config]
sudo mousepad config.inc.php
-(arrgalieva® kali)-[/var/www/html/DVWA/config]
sudo systemetl start mysql
-(arrgalieva@kali)-[/var/www/html/DVWA/config]
sudo systemetl 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 08:17:47 EDT; 35s ago
      Docs: man:mariadbd(8)
            https://mariadb.com/kb/en/library/systemd/
    Process: 8668 ExecStartPre=/usr/bin/install -m 755 -o mvsgl -g root -d /var/run/mvsgld (cod>
    Process: 8678 ExecStartPre=/bin/sh -c systemctl unset-environment WSREP START POSITION (co>
    Process: 8681 ExecStartPre=/bin/sh -c [ ! -e /usr/bin/galera recovery ] 56 VAR= || VAR=`c>
    Process: 8762 ExecStartPost=/bin/sh -c systemctl unset-environment WSREP START POSITION (c>
    Process: 8765 ExecStartPost=/etc/mysgl/debian-start (code=exited, status=0/SUCCESS)
   Main PID: 8740 (mariadbd)
     Status: "Taking your SQL requests now ... "
      Tasks: 14 (limit: 2260)
     Memory: 109.3M
       CPU: 1.578s
     CGroup: /system.slice/mariadb.service
```



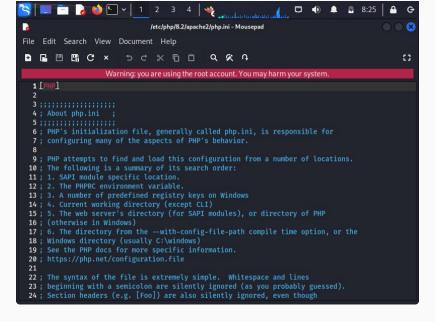
```
🌂 🔙 🗀 🍃 🍪 🖭 🗸 1 2 3 4 🗸
•
                                   root@kali: /etc/php/8.2/apache2
File Actions Edit View Help
    Process: 8681 FxecStartPre=/bin/sh -c [ ! -e /usr/bin/galera recovery ] fift VAR= ||
    Process: 8762 ExecStartPost=/bin/sh -c systemctl unset-environment WSREP START POSITION (c>
    Process: 8765 ExecStartPost=/etc/mysgl/debian-start (code=exited, status=0/SUCCESS)
   Main PID: 8740 (mariadbd)
     Status: "Taking your SOL requests now ... "
      Tasks: 14 (limit: 2260)
     Memory: 109.3M
        CPU: 1.578s
     CGroup: /system.slice/mariadb.service
             └8740 /usr/sbin/mariadbd
Mar 16 08:17:46 kali mariadbd[8740]: 2024-03-16 8:17:46 0 [Note] Plugin 'FFEDBACK' is disabled.
Mar 16 08:17:46 kali mariadbd[8740]: 2024-03-16 8:17:46 0 [Warning] You need to use --log-bin >
Mar 16 08:17:46 kali mariadbd[8740]: 2024-03-16 8:17:46 0 [Note] InnoDB: Buffer pool(s) load c>
Mar 16 08:17:47 kali mariadbd[8740]: 2024-03-16 8:17:47 0 [Note] Server socket created on IP:
Mar 16 08:17:47 kali mariadbd[8740]: 2024-03-16 8:17:47 0 [Note] /usr/sbin/mariadbd: ready for>
Mar 16 08:17:47 kali mariadbd[8740]: Version: '10.11.5-MariaDB-3' socket: '/run/mysqld/mysqld.>
Mar 16 08:17:47 kali systemd[1]: Started mariadb.service - MariaDB 10.11.5 database server.
Mar 16 08:17:47 kali /etc/mysql/debian-start[8767]: Upgrading MariaDB tables if necessary.
Mar 16 08:17:47 kali /etc/mysgl/debian-start[8780]: Checking for insecure root accounts.
Mar 16 08:17:47 kali /etc/mysgl/debian-start[8784]: Triggering myisam-recover for all MyISAM tab
lines 1-28/28 (END)
-(arrgalieva® kali)-[/var/www/html/DVWA/config]
  -(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
```

```
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•
                                  root@kali: /etc/php/8.2/apache2
File Actions Edit View Help
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 dywa:
Ouerv OK. 1 row affected (0.008 sec)
MariaDB [(none)]> create user 'admin'@127.0.0.1' identified by 'password':
Ouerv OK. 0 rows affected (0.079 sec)
MariaDB [(none)]> grant all privileges on dywa.* to 'admin'a'127.0.0.1':
Query OK. 0 rows affected (0.034 sec)
MariaDB [(none)]> exit
Bve
 - (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 08:24:12 EDT: 14s ago
       Docs: https://httpd.apache.org/docs/2.4/
    Process: 12049 ExecStart=/usr/sbin/apachectl start (code=exited, status=0/SUCCESS)
   Main PID: 12073 (apache2)
      Tasks: 6 (limit: 2260)
     Memory: 23.7M
```

```
ຊ 📃 🗀 🍃 🐞 🕒 🗸 1 2 3 4 🗸
•
                                  root@kali: /etc/php/8.2/apache2
File Actions Edit View Help
  Main PID: 12073 (apache2)
      Tasks: 6 (limit: 2260)
     Memory: 23.7M
       CPU: 282ms
     CGroup: /system.slice/apache2.service
             -12073 /usr/sbin/apache2 -k start
             -12076 /usr/sbin/apache2 -k start
             -12077 /usr/sbin/apache2 -k start
             -12078 /usr/sbin/apache2 -k start
             -12079 /usr/sbin/apache2 -k start
             -12080 /usr/sbin/apache2 -k start
Mar 16 08:24:11 kali systemd[1]: Starting apache2.service - The Apache HTTP Server...
Mar 16 08:24:11 kali apachect[12072]: AH00558: apache2: Could not reliably determine the serve>
Mar 16 08:24:12 kali systemd[1]: Started apache2.service - The Apache HTTP Server.
       tekali)-[/var/www/html/DVWA/config
  cd /etc/php
         kali)-[/etc/php
   (root@kali)-[/etc/php
  # cd 8.2
          cali)-[/etc/php/8.2]
```

Рис. 7: Прописываем команды

```
🜎 🔲 🗀 🔰 🕒 🗸 1 2 3 4 🗸
                                      root@kali: /etc/php/8.2/apache2
File Actions Edit View Help
                                                                                        Screenshot taken
cd /etc/php
    (root@kali)-[/etc/php]
 —(root® kali)-[/etc/php]
-# cd 8.2
  -(root@kali)-[/etc/php/8.2]
  --(root@kali)-[/etc/php/8.2]
-# cd apache2
   (root@kali)-[/etc/php/8.2/apache2]
conf.d php.ini
 —(<mark>root® kali</mark>)-[/etc/php/8.2/apache2]
→# mousepad php.ini
  -(root@kali)-[/etc/php/8.2/apache2
  mousepad php.ini
  -(root<mark>®kali</mark>)-[/etc/php/8.2/apache2]
 -# systemctl restart apache2
    root@kali)-[/etc/php/8.2/apache2
```



```
E v 1 2 3 4
                               root@kali: /var/www/html/DVWA/config
File Actions Edit View Help
Ouerv OK. 0 rows affected (0.034 sec)
MariaDB [(none)]> exit
Bve
 -(root@kali)-[/var/www/html/DVWA/config]
systemctl start apache2
  -(root@kali)-[/var/www/html/DVWA/config]
  systematl 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 08:24:12 FDT: 14s ago
       Docs: https://httpd.apache.org/docs/2.4/
    Process: 12049 ExecStart=/usr/sbin/apachectl start (code=exited, status=0/SUCCESS)
   Main PID: 12073 (apache2)
      Tasks: 6 (limit: 2260)
     Memory: 23.7M
        CPU: 282ms
     CGroup: /system.slice/apache2.service
             -12073 /usr/sbin/apache2 -k start
             -12076 /usr/sbin/apache2 -k start
             -12077 /usr/sbin/apache2 -k start
             -12078 /usr/sbin/apache2 -k start
             -12079 /usr/sbin/apache2 -k start
             -12080 /usr/shin/anache2 -k start
Mar 16 08:24:11 kali systemd[1]: Starting apache2.service - The Apache HTTP Server...
Mar 16 08:24:11 kali apachectl[12072]: AH00558: apache2: Could not reliably determine the serve>
Mar 16 08:24:12 kali systemd[1]: Started apache2.service - The Apache HTTP Server.
lines 1-20/20 (END)
```



В ходе выполнения данного этапа я установила DVWA в гостевую систему к Kali Linux.