Индивидуальный проект, 4 этап

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Цель работы

Целью данной работы является обучение тестированию веб-приложений с помощью сканера nikto в Kali Linux.

Выполнение 4-го этапа ИП

Чтобы работать с nikto, необходимо подготовить вебприложение, которое будем сканировать. Это будет DVWA. Для этого запустила mysql и apache2 (рис. 1).

```
(mgandrianova4@ kali)-[~]
$ sudo systemctl start mysql
[sudo] password for mgandrianova4:

(mgandrianova4@ kali)-[~]
$ sudo systemctl start apache2

(mgandrianova4@ kali)-[~]
$ sudo systemctl start apache2
```

Рис.1. Запуск mysql и apache2

Ввожу в адресной строке браузера адрес DVWA, перехожу в режим выбора уровня безопасности, ставлю минимальный (рис. 2).

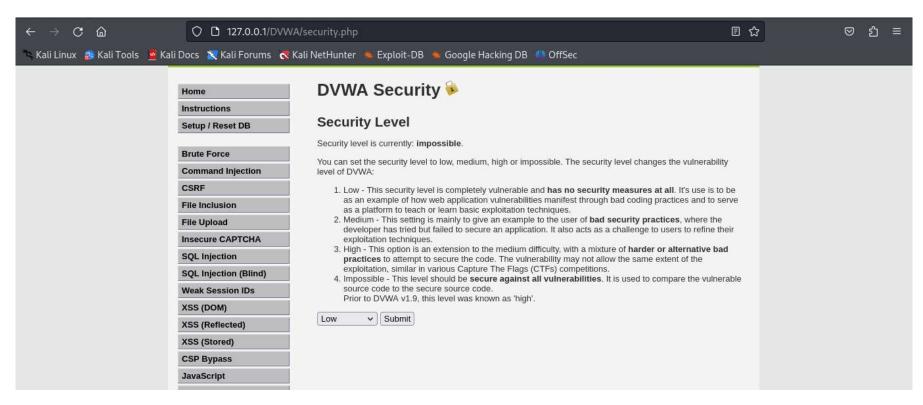


Рис.2. Запуск DVWA

Запускаю nikto (рис. 3).



Рис.3. Запуск nikto

Проверить веб-приложение можно, введя его полный URL и не вводя порт, сначала пробуем так (рис. 4-5).



Рис.4. Проверка веб-приложения 1-ым способом

```
+ Server: Apache/2.4.62 (Debian)
+ /DVWA/: The anti-clickjacking X-Frame-Options header is not present. See: https://developer.mozilla.org/en-US/docs/Web/HTTP/Headers/X-Frame-Options
+ /DVWA/: The X-Content-Type-Options header is not set. This could allow the user agent to render the content of the site in a different fashion to the MIME type. See
: https://www.netsparker.com/web-vulnerability-scanner/vulnerabilities/missing-content-type-header/
+ Root page /DVWA redirects to: login.php
+ No CGI Directories found (use '-C all' to force check all possible dirs)
+ OPTIONS: Allowed HTTP Methods: POST, OPTIONS, HEAD, GET .
+ /DVWA///etc/hosts: The server install allows reading of any system file by adding an extra '/' to the URL.
+ /DVWA/config/: Directory indexing found.
+ /DVWA/config/: Configuration information may be available remotely.
+ /DVWA/tests/: Directory indexing found.
+ /DVWA/tests/: This might be interesting.
+ /DVWA/database/: Directory indexing found.
+ /DVWA/database/: Database directory found.
+ /DVWA/docs/: Directory indexing found.
+ /DVWA/login.php: Admin login page/section found.
+ /DVWA/.git/index: Git Index file may contain directory listing information.
+ /DVWA/.git/HEAD: Git HEAD file found. Full repo details may be present.
+ /DVWA/.git/config: Git config file found. Infos about repo details may be present.
+ /DVWA/.gitignore: .gitignore file found. It is possible to grasp the directory structure.
+ /DVWA/wp-content/themes/twentyeleven/images/headers/server.php?filesrc=/etc/hosts: A PHP backdoor file manager was found.
+ /DVWA/wordpress/wp-content/themes/twentyeleven/images/headers/server.php?filesrc=/etc/hosts: A PHP backdoor file manager was found.
+ /DVWA/wp-includes/Requests/Utility/content-post.php?filesrc=/etc/hosts: A PHP backdoor file manager was found.
+ /DVWA/wordpress/wp-includes/Requests/Utility/content-post.php?filesrc=/etc/hosts: A PHP backdoor file manager was found.
+ /DVWA/wp-includes/js/tinymce/themes/modern/Meuhy.php?filesrc=/etc/hosts: A PHP backdoor file manager was found.
+ /DVWA/wordpress/wp-includes/js/tinymce/themes/modern/Meuhy.php?filesrc=/etc/hosts: A PHP backdoor file manager was found.
+ /DVWA/assets/mobirise/css/meta.php?filesrc=: A PHP backdoor file manager was found.
+ /DVWA/login.cgi?cli=aa%20aa%27cat%20/etc/hosts: Some D-Link router remote command execution.
+ /DVWA/shell?cat+/etc/hosts: A backdoor was identified.
+ /DVWA/.dockerignore: .dockerignore file found. It may be possible to grasp the directory structure and learn more about the site.
+ 8074 requests: 0 error(s) and 26 item(s) reported on remote host
+ End Time:
                     2024-10-02 19:35:40 (GMT3) (37 seconds)
+ 1 host(s) tested
```

Рис. 5. Проверка веб-приложения 1-ым способом

Затем попробовала просканировать, введя адрес хоста и адрес порта, результаты незначительно отличаются (рис. 6).

```
-(mgandrianova4® kali)-[~]
 -$ nikto -h 127.0.0.1 -p 80
 Nikto v2.5.0
+ Target IP:
                      127.0.0.1
  Target Hostname:
                      127.0.0.1
+ Target Port:
+ Start Time:
                      2024-10-02 19:44:36 (GMT3)
+ Server: Apache/2.4.62 (Debian)
+ /: The anti-clickjacking X-Frame-Options header is not present. See: https://developer.mozilla.org/en-US/docs/Web/HTTP/Headers/X-Frame-Options
+ /: The X-Content-Type-Options header is not set. This could allow the user agent to render the content of the site in a different fashion to the MIME type. See: htt
ps://www.netsparker.com/web-vulnerability-scanner/vulnerabilities/missing-content-type-header/
+ No CGI Directories found (use '-C all' to force check all possible dirs)
+ /: Server may leak inodes via ETags, header found with file /, inode: 29cf, size: 6225269cb1872, mtime: gzip. See: http://cve.mitre.org/cgi-bin/cvename.cgi?name=CVE
-2003-1418
+ OPTIONS: Allowed HTTP Methods: OPTIONS, HEAD, GET, POST .
+ ///etc/hosts: The server install allows reading of any system file by adding an extra '/' to the URL.
+ /server-status: This reveals Apache information. Comment out appropriate line in the Apache conf file or restrict access to allowed sources. See: OSVDB-561
  /wp-content/themes/twentyeleven/images/headers/server.php?filesrc=/etc/hosts: A PHP backdoor file manager was found.
+ /wordpress/wp-content/themes/twentyeleven/images/headers/server.php?filesrc=/etc/hosts: A PHP backdoor file manager was found.
+ /wp-includes/Requests/Utility/content-post.php?filesrc=/etc/hosts: A PHP backdoor file manager was found.
  /wordpress/wp-includes/Requests/Utility/content-post.php?filesrc=/etc/hosts: A PHP backdoor file manager was found.
  /wp-includes/js/tinymce/themes/modern/Meuhy.php?filesrc=/etc/hosts: A PHP backdoor file manager was found.
+ /wordpress/wp-includes/js/tinymce/themes/modern/Meuhy.php?filesrc=/etc/hosts: A PHP backdoor file manager was found.
  /assets/mobirise/css/meta.php?filesrc=: A PHP backdoor file manager was found.
+ /login.cgi?cli=aa%20aa%27cat%20/etc/hosts: Some D-Link router remote command execution.
+ /shell?cat+/etc/hosts: A backdoor was identified.
+ 8074 requests: 0 error(s) and 15 item(s) reported on remote host
+ End Time:
                      2024-10-02 19:45:56 (GMT3) (80 seconds)
+ 1 host(s) tested
```

Рис.6. Проверка веб-приложения 2-ым способом

Выводы

Научилась использовать сканер nikto для тестирования вебприложений в Kali Linux.