

# **Индивидуальный проект. Этап 4**

**Дисциплина: Основы информационной безопасности**

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# Содержание

<b>1</b>	<b>Цель работы</b>	<b>5</b>
<b>2</b>	<b>Выполнение лабораторной работы</b>	<b>6</b>
<b>3</b>	<b>Выводы</b>	<b>11</b>
	<b>Список литературы</b>	<b>12</b>

# Список иллюстраций

2.1	Запуск DVWA . . . . .	6
2.2	DVWA Security . . . . .	7
2.3	Справка о nikto . . . . .	8
2.4	Анализ через адрес . . . . .	9
2.5	Анализ по имени хоста и порту . . . . .	10

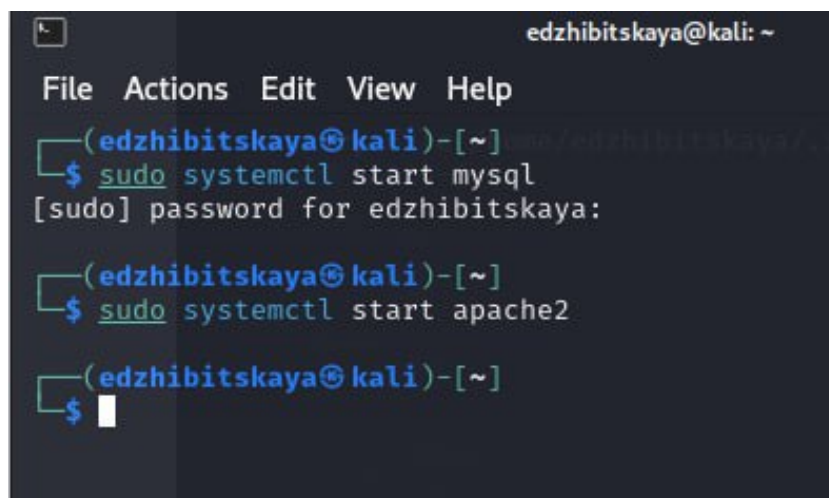
## **Список таблиц**

# 1 Цель работы

Продолжение выполнения проекта. Освоение приложения nikto

## 2 Выполнение лабораторной работы

Запускаем сервер и работу DVWA - включаем mysql и apache2(рис. 2.1).



```
edzhibitskaya@kali: ~  
File Actions Edit View Help  
(edzhibitskaya@kali)-[~]  
$ sudo systemctl start mysql  
[sudo] password for edzhibitskaya:  
(edzhibitskaya@kali)-[~]  
$ sudo systemctl start apache2  
(edzhibitskaya@kali)-[~]  
$
```

Рис. 2.1: Запуск DVWA

Входим в систему, переходим в раздел Security и для удобства устанавливаем уровень low. Это не обязательно, но все равно сделаем(рис. 2.2).

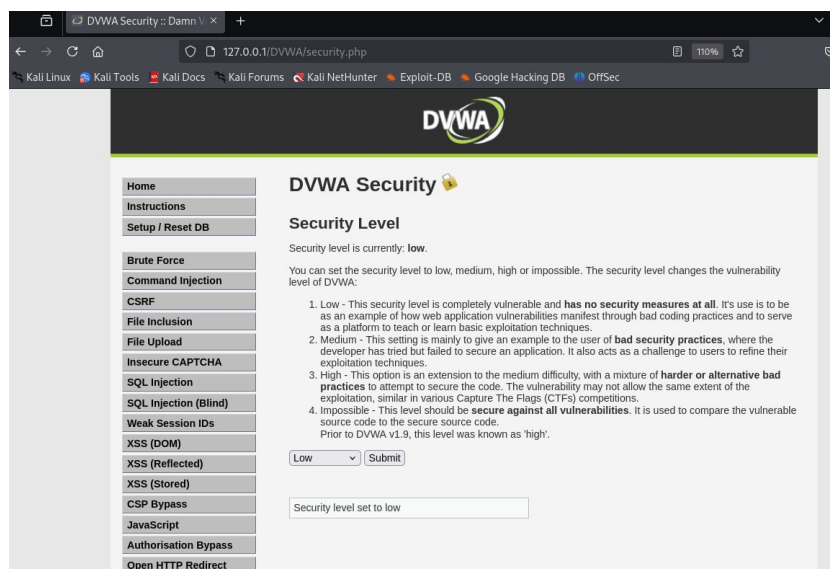


Рис. 2.2: DVWA Security

Затем запустим nikto. Получим и изучим справку.

nikto — базовый сканер безопасности веб-сервера. Он сканирует и обнаруживает уязвимости в веб-приложениях, обычно вызванные неправильной конфигурацией на самом сервере, файлами, установленными по умолчанию, и небезопасными файлами, а также устаревшими серверными приложениями.

(рис. 2.3).

```
(edzhibitskaya@kali)-[~]
$ nikto -Help

Options:
  -ask+                Whether to ask about submitting updates
                        yes   Ask about each (default)
                        no   Don't ask, don't send
                        auto  Don't ask, just send
  -check6              Check if IPv6 is working (connects to ipv6.google.
                        com or value set in nikto.conf)
  -Cgidirs+            Scan these CGI dirs: "none", "all", or values like
                        "/cgi/" "/cgi-a/"
  -config+             Use this config file
  -Display+            Turn on/off display outputs:
                        1     Show redirects
                        2     Show cookies received
                        3     Show all 200/OK responses
                        4     Show URLs which require authentication
                        D     Debug output
                        E     Display all HTTP errors
                        P     Print progress to STDOUT
                        S     Scrub output of IPs and hostnames
                        V     Verbose output
  -dbcheck             Check database and other key files for syntax error
  -evasion+            Encoding technique:
                        1     Random URI encoding (non-UTF8)
                        2     Directory self-reference (../)
                        3     Premature URL ending
                        4     Prepend long random string
                        5     Fake parameter
                        6     TAB as request spacer
                        7     Change the case of the URL
                        8     Use Windows directory separator (\)
                        A     Use a carriage return (0x0d) as a request spacer
```

Рис. 2.3: Справка о nikto

Далее перейдем к получению информации и ее анализу. Получим ее двумя разными способами(через адрес и через имя хоста и номер порта)(рис. 2.4) и рис. 2.5).



```

(edzhibitskaya@kali)~$
$ nikto -h http://127.0.0.1/DVWA/
Nikto v2.5.0

+ Target IP: 127.0.0.1
+ Target Hostname: 127.0.0.1
+ Target Port: 80
+ Start Time: 2025-03-30 20:26:33 (GMT3)

+ 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: GET, POST, OPTIONS, HEAD .
+ /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.

```

Рис. 2.4: Анализ через адрес

```

(edzhibitskaya@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: 80
+ Start Time: 2025-03-30 20:28:14 (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: https://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: 62eab9c0f35b8, mtime: gzip. See: http://cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2003-1418
+ OPTIONS: Allowed HTTP Methods: GET, POST, OPTIONS, HEAD .
+ ///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: 2025-03-30 20:28:46 (GMT3) (32 seconds)

+ 1 host(s) tested

```

Рис. 2.5: Анализ по имени хоста и порту

## 3 Выводы

В ходе работы мы познакомились с приложением nikto. Также был произведен анализ DVWA, получена информация о нем.

## Список литературы

- Парасрам, Ш. Kali Linux: Тестирование на проникновение и безопасность : Для профессионалов. Kali Linux / Ш. Парасрам, А. Замм, Т. Хериянто, и др. – Санкт-Петербург : Питер, 2022. – 448 сс.