

Индивидуальный проект

Этап 4. Использование Nikto

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Использовать Nikto для поиска уязвимостей в системе.

Nikto — веб-сканер, проверяющий веб-серверы на самые частые ошибки, возникающие обычно из-за человеческого фактора. Проверяет целевой веб-сервер на наличие опасных файлов и исполняемых сценариев, инструментов администрирования базами данных, устаревшего программного обеспечения.

Выполнение лабораторной работы

Посмотрим список опций для команды nikto. (рис. (fig:001?))

```
(kali㉿kali)-[~]  
$ nikto -h  
Option host requires an argument  
  
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  
s  
-evasion+            Encoding technique:
```

Рис. 1: Опции для команды nikto

Запустим nikto для поиска уязвимостей в системе. (рис. (fig:002?))

```
(kali㉿kali)-[~]  
$ nikto -h gazel.me  
- Nikto v2.5.0  
  
+ Multiple IPs found: 85.119.149.161, 2a00:ab00:1103:7:23::1  
+ Target IP: 85.119.149.161  
+ Target Hostname: gazel.me  
+ Target Port: 80  
+ Start Time: 2024-10-04 15:37:31 (GMT-4)  
  
+ Server: nginx/1.20.2  
+ /: Retrieved x-powered-by header: PHP/5.5.38.  
+ /: 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/  
+ /: Cookie PHPSESSID created without the httponly flag. See: https://developer.mozilla.org/en-US/docs/Web/HTTP/Cookies  
+ /robots.txt: contains 1 entry which should be manually viewed. See: https://developer.mozilla.org/en-US/docs/Glossary/Robots.txt  
+ /: Web Server returns a valid response with junk HTTP methods which may cause false positives.  
+ /?mod=<script>alert(document.cookie)</script>&op=browse: Sage 1.0b3 is vulnerable to Cross Site Scripting (XSS). See: http://cve.mitre.org/cgi-bin/cvena
```

Рис. 2: Нашли несколько уязвимостей, например, Sage 1.0b3

Проверим apache2 на уязвимости. (рис. (fig:003?))

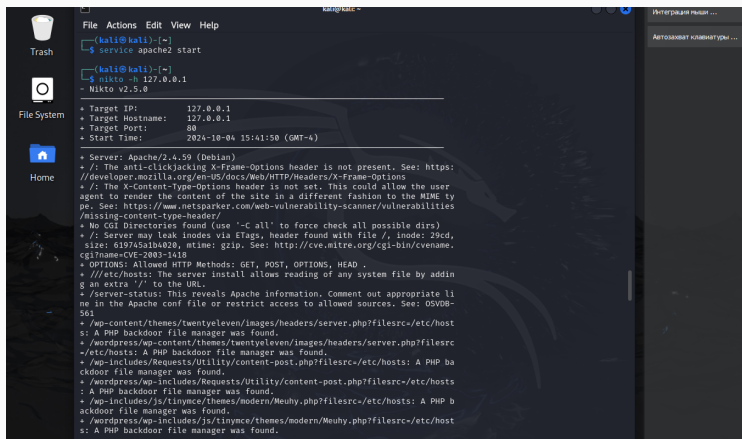


Рис. 3: Здесь также нашли несколько уязвимостей, например, несколько backdoor file manager

Проверим DVWA на уязвимости. (рис. (fig:004?))

```
(kali@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:     2024-10-04 15:44:21 (GMT-4)

+ Server: Apache/2.4.59 (Debian)
+ /DVWA/: The anti-clickjacking X-Frame-Options header is not present. See: h
tps://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 MI
ME type. See: https://www.netsparker.com/web-vulnerability-scanner/vulnerabil
ities/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/.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 p
resent.
+ /DVWA/.gitignore: .gitignore file found. It is possible to grasp the direct
ory structure.
+ /DVWA/wp-content/themes/twentyeleven/images/headers/server.php?filesrsrc/etc
/hosts: A PHP backdoor file manager was found.
+ /DVWA/wordpress/wp-content/themes/twentyeleven/images/headers/server.php?fi
lesrsrc=/etc/hosts: A PHP backdoor file manager was found.
+ /DVWA/wp-includes/Requests/Utility/content-post.php?filesrsrc=/etc/hosts: A P
HP backdoor file manager was found.
```

Рис. 4: Также нашли уязвимости и в DVWA, те же backdoor file manager

Использовали nikto для поиска уязвимостей в системе и приложениях.

1. Nikto [Электронный ресурс]. Wikimedia Foundation, Inc., 2024. URL: <https://ru.wikipedia.org/wiki/Nikto>.