Основы информационной безопасности. Индивидуальный проект

Этап № 4. Использование nikto

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Информация

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Вводная часть

Цели и задачи

Целью данной работы является Nikto сканирования уязвимостей веб-приложения.

Задачи:

• Проанализировать уязвимости веб-приложения DVWA с помощью сканера Nikto.

Инструмент: DVWA, Nikto

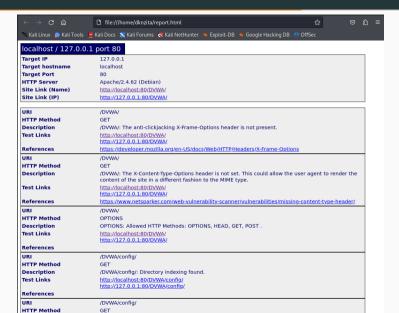
Выполнение лабораторной работы

```
This is perl 5, version 38, subversion 2 (v5.38.2) built for x
86 64-linux-gnu-thread-multi
(with 44 registered patches, see perl -V for more detail)
Copyright 1987-2023, Larry Wall
Perl may be copied only under the terms of either the Artistic
License or the
GNU General Public License, which may be found in the Perl 5 s
ource kit.
Complete documentation for Perl, including FAQ lists, should b
e found on
this system using "man perl" or "perldoc perl". If you have a
ccess to the
Internet, point your browser at https://www.perl.org/, the Per
l Home Page.
- Nikto v2.5.0
+ ERROR: No host (-host) specified
   Options:
       -ask+
                           Whether to ask about submitting updates
                               ves Ask about each (default)
                                    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/"
```

Сканирование и анализ

```
s nikto -h http://localhost/DVWA/ -o report.html -Format html
- Nikto v2.5.0
+ Target IP:
                     127.0.0.1
+ Target Hostname:
                     localhost
+ Target Port:
+ Start Time:
                     2024-10-02 07:42:22 (GMT-4)
+ Server: Anache/2.4.62 (Debian)
+ /DVWA/: The anti-clickjacking X-Frame-Options header is not present. See: https://dev
eloper.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-hea
der/
+ Root page /DVWA redirects to: login.php
+ No CGI Directories found (use '-C all' to force check all possible dirs)
+ OPTIONS: Allowed HTTP Methods: OPTIONS, HEAD, GET, POST .
+ /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 struct
+ /DVWA/.dockerignore: .dockerignore file found. It may be possible to grasp the direct
ory structure and learn more about the site.
+ 7850 requests: 0 error(s) and 16 item(s) reported on remote host
+ End Time:
                     2024-10-02 07:42:35 (GMT-4) (13 seconds)
+ 1 host(s) tested
```

Сканирование и анализ



Сканирование и анализ

```
$ nikto -h 127.0.0.1 -p 80
  Nikto v2 5 6
 Target IP:
                     127.0.0.1
 Target Hostname:
 Target Port:
 + Start Time:
                     2024-10-02 07:46:24 (GMT-4)
 + Server: Anache/2.4.62 (Debian)
 + /: The anti-clickiacking X-Frame-Options header is not present. See: https://develope
r.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 r
ender 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 Flags, header found with file /, inode: 29cf, size: 622
9b4608334d, mtime: gzip. See: http://cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2003-14
+ 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.
 + /wordnress/wn-content/themes/twentypleyen/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.
 + /wn-includes/is/tinymce/themes/modern/Meuby.php?filesrc=/etc/hosts: A PHP backdoor file manager was found.
+ /wordpress/wp-includes/is/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 07:46:37 (GMT-4) (13 seconds)
+ 1 host(s) tested
      Portions of the server's headers (Apache/2.4.62) are not in
```

Рис. 4: Проверка уязвимостей с указанием порта

Заключение



В результате выпольнения работы был использован сканер Nikto для сканирования уязвимостей веб-приложения.

Список литературы

- 1. DVWA [Электронный ресурс]. GitHub, Inc, 2024. URL: https://github.com/digininja/DVWA.
- 2. Обзор сканера Nikto для поиска уязвимостей в веб-серверах [Электронный ресурс]. 2006–2024, Habr, 2023. URL: https://habr.com/ru/companies/first/articles/731696/.