Индивидуальный проект №4

Основы информационной безопасности

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Вводная часть

Цели и задачи

Знакомство с базовым сканером безопасности nikto, его применение.

Выполнение лабораторной

работы

Вывожу справку об утилите nikto командой nikto -h

```
Option host requires an argument
   Options:
                           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)
                           Scan these CGI dirs: "none", "all", or values like
 "/cgi/ /cgi-a/"
       -config+
                          Use this config file
       -Display+
                           Turn on/off display outputs:
                                     Show redirects
                                     Show cookies received
                                     Show all 200/OK responses
                                     Show URLs which require authentication
                                     Debug output
                                     Display all HTTP errors
                                     Print progress to STDOUT
                                     Scrub output of IPs and hostnames
                                     Verbose output
       -dbcheck
                          Check database and other key files for syntax error
       -evasion+
                          Encoding technique:
                                     Random URI encoding (non-UTF8)
                                     Directory self-reference (/./)
                                     Premature URL ending
                                     Prepend long random string
                                     Fake parameter
```

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Сканирую веб-сайт gosuslugi.ru на наличие уязвимостей с помощью команды nikto -h gosuslugi.ru. Утилита показала отсутствие некоторых важных для безопасности заголовков

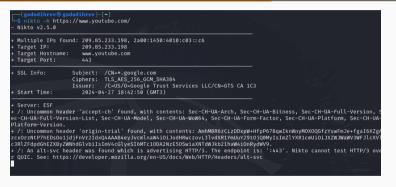


Figure 2: Сканирование сайта gosuslugi.ru

Сканирую локальный хост на наличие уязвимостей с помощью команды nikto -h 127.0.0.1

```
-$ nikto -h 127.0.0.1
  Nikto v2.5.0
  Target IP:
                      127.0.0.1
  Target Hostname:
                      127.0.0.1
  Target Port:
                      2024-04-27 18:41:29 (GMT3)
  Start Time:
 Server: Apache/2.4.58 (Debian)
 /: The anti-clickjacking X-Frame-Options header is not present. See: https://developer.mozilla.org/en-US/docs/Web
+ /: The X-Content-Type-Options header is not set. This could allow the user agent to render the content of the sit
e in a different fashion to the MIME type. See: https://www.netsparker.com/web-vulnerability-scanner/vulnerabilitie
s/missing-content-type-header/
+ No CGI Directories found (use '-C all' to force check all possible dirs)
+ /: Server may leak inodes via FTags, header found with file /. inode: 29cd, size: 61679fa5b7cf4, 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 Anache information. Comment out appropriate line in the Anache conf file or restrict
access to allowed sources. See: OSVDB-561
```

Figure 3: Сканирование локалхоста

Сканирую приложение DVWA с помощью команды nikto -h http://127.0.0.1/DVWA. nikto также указывает на отсутствие важных заголовков и выводит информацию о различных доступных эндпоинтах

```
ot®gadudihrev)-[/home/gadudihrev]
   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:
 Start Time:
                     2024-04-27 18:40:35 (GMT3)
 Server: Anache/2.4.58 (Debian)
 /DVWA/: The anti-clicklacking X-Frame-Options header is not present. See: https://developer.mozilla.org/en-US/doc
/Web/HTTP/Headers/X-Frame-Ontions
+ /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/vulnerabil
ties/missing-content-type-header/
+ No CGI Directories found (use '-C all' to force check all possible dirs)
 OPTIONS: Allowed HTTP Methods: GET, POST, OPTIONS, HEAD.
 /: Web Server returns a valid response with junk HTTP methods which may cause false positives.
 /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 reno 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 w
 /DVWA/wordpress/wn-content/themes/twentveleven/images/headers/server.nhn?filesrc=/etc/hosts: A PHP backdoor file
anager was found.
+ /DVWA/wn-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 wa
```

Вывод

Я познакомился с nikto, научился его применять на практике для проверки уязвимостей различных сайтов