Презентация по 4 этапу индивидуального проекта.

Основы информационной безопасности.

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Информация

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Цели работы ______

Цели и задачи

· Получить начальные практические навыки работы с ${\tt nikto}$

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. Утилита относиться к классу blackbox сканеров, т. е. сканеров, использующих стратегию сканирования методом черного ящика. Это значит, что заранее неизвестно о внутреннем устройстве программы/сайта (доступ к исходному коду отсутствует) и упор сделан на функциональность.

Теоретическое введение

Программа может обнаруживать более 6700 потенциально опасных файлов и уязвимостей. Новые уязвимости добавляются в базу данных программы по мере их возникновения. Помимо поиска уязвимостей, сканер производит поиск на наличие устаревших версий, используемых библиотек и фреймворков. Nikto не позиционируется как стелс сканер (стелс сканеры никогда не устанавливают TCP-соединения до конца, тем самым сканирование происходит скрытно) – при сканировании сайта в логах сайта или в любой другой системе обнаружения вторжений, если она используется, будет отображена информация о том, что сайт подвергается сканированию.

Минимальный синттаксис для запуска сканирования выглядит следующим образом:

nikto -h [доменное_имя или IP_адрес]

Более подробно можно почитать в тут и тут.

Выполнение

1. От имени суперпользователя установим необходимую программу:

```
root@kali:~

File Actions Edit View Help

(root@kali)-[~]

p apt install nikto
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
nikto is already the newest version (1:2.5.0+git20230114.90ff645-0kali1).
nikto set to manually installed.
0 upgraded, 0 newly installed, 0 to remove and 0 not upgraded.

(root@kali)-[~]
```

Рис. 1: Установка nikto

Изучение

2. Изучим справку по команде:

```
CHING A DATE OF THE CONTROL SPECIFIES

WHITE IS NOT COME TO THE CO
```

Рис. 2: nikto -h

3. Протестируем сайт ТУИС:

Рис. 3: nikto -h eystem.rudn.ru

4. Протестируем сайт московской школы №1366:

```
. Multiple TDs Found: 31 31 108 100, 2288: F048:2:2:1:4:8:05
 + /: The X-Content-Type-Options header is not set. This could allow the user
 pe. See: https://www.netsparker.com/web-vulnerability-scanner/vulnerabilities
 **IA^I[A^I[A^I]A^I[A^I]A^I[A^I]A^I[A^I]A^I[A^I]A^IIA^IIA OPTIONS: Allowed HTTP Methods: HEAD, GET, POST, OPTIONS
 + /administrator/gallery/unloadinage.ohg: Mambo PMP Portal/Server A.S.12 SETA and below may allow unload of any file type simply outling '.ing'

    /admin/config.php: PHP Config file may contain database IDs and passwords.
    /administrator/config.php: PHP Config file may contain database IDs and passwords.

 * /admin-serv/config/admpw: This file contains the encrypted Netscape admin password. It should not be accessible via the web.
 * /administrator/upload_php?newbanner-16choice-\"cscript>alert(document_cookie)/script>: Mambo PMP Portal/Server is vulnerable to Cross Site S
+ /administrator/popups/sectionswindow.php?type-web9link-\"<script>alert(document.cookie)</script>: Mambo PMP Portal/Server is vulnerable to Cr

    Administrator/gallery//sew.phs/path-\"escriptslert(document.cookie)
    Administrator/gallery//sew.phs/path-\"escriptslert(document.cookie)
    Administrator/gallery//sew.phs/path-\"escriptslert(document.cookie)
    (XSS), See: http://cve.mitre.org/cgi-bin/cvename.cgi?name-CVE-2003-1204
 + /administrator/gallery/uploadimage.php?directory-\"<script>alert(document.cookie)</script>: Mambo PMP Portal/Server is vulnerable to Cross Si
+ /administrator/gallery/navigation.php?directory-\'<script>alert(document.cookie)</script>: Mambo PMP Portal/Server is vulnerable to Cross Sit
e Scripting (XSS), See: http://cve.mitre.prg/cgi-bin/cvename.cgi?name=CVE-2883-1284
e Scripting Cass). See: http://eve.nitre.org/cgi-bin/cvenakecgironerder-cess*ites
//administrator/gallery/gallery_oph/directory=\footnote{consent.coakle}/script>: Mambo PMP Portal/Server is vulnerable to Cross Site S
cripting (XSS). See: http://eve.nitre.org/cgi-bin/cvename.cgi/mame
WeblogSettings%26 _SAPagekey-5742D5874845934A134CD85F39C632465ReturnURL-\'><script>alert(document.cookie)</script>: IIS 6 on Windows 2003 is vu
 + /ohninfo.php?VARIABLE=<script>alert('Vulnerable')</script>: Retrieved x=pgwered-by header: PHP/5.3.29.
 + /phpinfo.php: Output from the phpinfo() function was found.
+ /admin/cplogfile.log: Dev88 1.0 final log file is readable remotely. Upgrade to the latest version. See: http://www.mybboard.com
+ /admin/system_footer.php: myshonuke version 1.8.8 final 7 reveals detailed system information.
 + /DB/Web/18.10.18.10:188: The remote DB/Web server may allow you to connect to arbitrary machines and ports. See: http://cve.mitre.org/cgi-bin
/cvename.cgi?name=CVE-2882-1484
 + /admin.ohp?en_log_id=86action=config: EasyNews_version_4.3 allows_remote_admin_access. This_PMP_file_should_be_protected. See: http://cve.mit
+ /admin.php?en_log_id=Bbaction-users: EasyNews version 4.3 allows remote admin access. This PHP file should be protected. See: http://cve.mitr
e.org/cgi-bin/cvename.cgi?name-CYE-2006-5412
+ /admin.php67res login-1; Mon Album version 0.6.2d allows remote admin access. This should be protected.
  /admin/admin phointo phoa: Mon Album version 8.6.2d allows remote admin access. This should be protected
```

Московская школа №1366

```
/doc/: The /doc/ directory is browsable. This may be /usr/doc. See: http://cve.mitre.org/cgi-bin/cvename.cgi?name-CVE-1999-0678
/admin/contextAdmin/contextAdmin/contextAdmin.html: Tomcat may be configured to let attackers read arbitrary files. Restrict access to /admin. See: http://cve.i
/cgi-bin/: CGI Directory found, See: http://cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2004-1607
 //admin/admin.shtml: Axis network camera may allow admin hypass by using double-slashes before URLs. See: http://cve.mitre.org/cgi-bin/cyename.cgi
 /admin/database/wwForum.mdb: Web Wiz Forums pre 7.5 is vulnerable to Cross-Site Scripting attacks. Default login/pass is Administrator/letmein. Se
name.cgi?name=CVE-2806-3604

    /admin/wg user-info.ml: WebGate Web Eve exposes user names and passwords. See: OSVDB-2922

/admin.htm: This might be interesting
 /administration/: This might be interesting.
· /files/: Directory indexing found.
/img-sys/: Default image directory should not allow directory listing.
/admin/cfg/configscreen.inc.php+: This might be interesting: has been seen in web logs from an unknown scanner.
/admin/cfg/configsite.inc.phps: This might be interesting: has been seen in web logs from an unknown scanner.
/admin/cfg/configsite.inc.phps: This might be interesting: has been seen in web logs from an unknown scanner.
/admin/cfg/configsite.inc.phps: This might be interesting: has been seen in web logs from an unknown scanner.
/admin/cfg/configsite.inc.phps: This might be interesting: has been seen in web logs from an unknown scanner.
 /admin/cms/htmltags.pho: This might be interesting: has been seen in web logs from an unknown scanner.
 /admin/index.php: This might be interesting; has been seen in web logs from an unknown scanner,
 /admin/modules/cache.php+: This might be interesting; has been seen in web logs from an unknown scanner.
 /admin/script.php: This might be interesting: has been seen in web logs from an unknown scanner
 /admin/script.pnp: His might be interesting: has been seen in web logs from an unknown scanner.
/admin/scrtings.inc.phps: This might be interesting: has been seen in web logs from an unknown scanner.
 /admin/templates/header.php: This might be interesting; has been seen in web logs from an unknown scanner.
/admin/unload.nhn: This might be interesting; has been seen in web loss from an unknown scanner.
/phpinfo.php: PMP is installed, and a test script which runs phpinfo() was found. This gives a lot of system information, See: CME-552
 /images/: Directory indexing found
/admin/datasource.asp: Xpede page reveals SQL account name. The /admin directory should be protected. See: http://cye.mitre.org/cgi-bin/cyename.cgi
 /admin/admin.php?adminpv=1: PV-Membres 4.2 may allow administrator access. See: http://cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2001-1198
```

Рис. 5: nikto -h school1366.ru

Московская школа №1366

```
File Actions Edit View Help
+ /administr8.php: Admin login page/section found.
+ /administrR/: Admin login page/section found.
+ /administracao.php: Admin login page/section found.
+ /administracao.php: Admin login page/section found.
+ /administracao/: Admin login page/section found.
+ /administracao/: Admin login page/section found
+ /administracion.php: Admin login page/section found.
+ /administracion/: Admin login page/section found.
* /administrateur pho: Admin login page/section found
+ /administratie/: Admin login page/section found.
+ /administration.html: Admin login page/section found.
+ /administration.php: Admin login page/section found.
+ /administration/: Admin login page/section found.
+ /administrator.asp: Admin login page/section found.
+ /administrator html: Admin login nage/section found
+ /administrator.php: Admin login page/section found.
+ /administrator/account.asp: Admin login page/section found-
+ /administrator/account.html: Admin login page/section found
+ /administrator/account.php: Admin login page/section found.
+ /administrator/index.asp: Admin login page/section found.
+ /administrator/index.html: Admin login page/section found
+ /administrator/index nbn: Admin login page/section found
+ /administrator/login.asp: Admin login page/section found
+ /administrator/login.html: Admin login page/section found
+ /administrator/login.php: Admin login page/section found
+ /administrator/cogin.php: Admin togin page/section found.
+ /administrators/: Admin login page/section found.
+ /administrivia/: Admin login page/section found.
+ /adminisztrátora.php: Admin login page/section found.
+ /adminisztrátora/: Admin login page/section found
+ /adminpanel.asp: Admin login page/section found
+ /adminpanel.html: Admin login page/section found
+ /adminpanel.php: Admin login page/section found.
* /adminoro/: Admin login page/section found.
+ /admins.asp: Admin login page/section found.
+ /admins.html: Admin login page/section found
+ /admins.php: Admin login page/section found.
+ /admins/: Admin login page/section found.
+ /admin-console: 1Boss admin console is visible
+ /admin/html: Tomcat Manager / Host Manager interface found (pass protected).
* /admin/sites/new: ComfortableMexicanSofa CMS Engine Admin Backend (pass protected).
+ /core/modules/config/config.info.vml: Drugal version number revealed in config.info.vml.
+ 8770 requests: 1 error(s) and 147 item(s) reported on remote host
                      2024-04-27 11:36:25 (GMT-4) (2214 seconds)
```

Рис. 6: nikto -h school1366.ru

Спасибо за внимание!