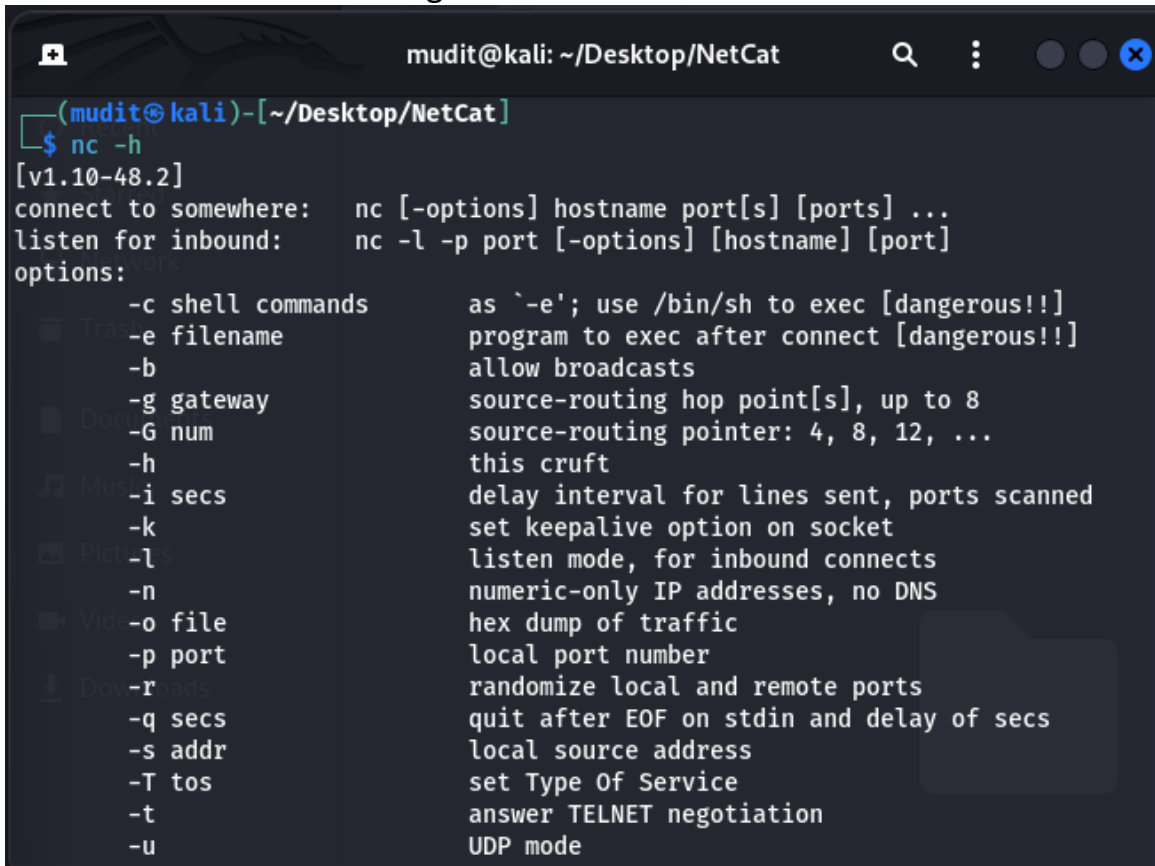


**Date: 21 /12 /2024****Lab Practical 3:**

Perform Netcat and metasploit tool for scanning system vulnerability.

- NetCat:
  - nc -h: It is used to get information about netcat command.

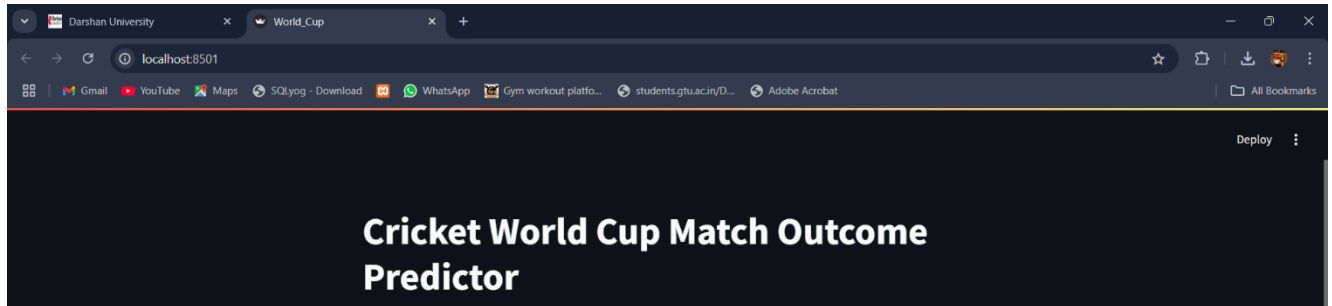


```
(mudit@kali)-[~/Desktop/NetCat]
$ nc -h
[v1.10-48.2]
connect to somewhere:  nc [-options] hostname port[s] [ports] ...
listen for inbound:    nc -l -p port [-options] [hostname] [port]
options:
  -c shell commands      as '-e'; use /bin/sh to exec [dangerous!!]
  -e filename            program to exec after connect [dangerous!!]
  -b                     allow broadcasts
  -g gateway             source-routing hop point[s], up to 8
  -G num                 source-routing pointer: 4, 8, 12, ...
  -h                     this cruft
  -i secs                delay interval for lines sent, ports scanned
  -k                     set keepalive option on socket
  -l                     listen mode, for inbound connects
  -n                     numeric-only IP addresses, no DNS
  -o file                hex dump of traffic
  -p port                local port number
  -r                      randomize local and remote ports
  -q secs                quit after EOF on stdin and delay of secs
  -s addr                local source address
  -T tos                 set Type Of Service
  -t                     answer TELNET negotiation
  -u                     UDP mode
```

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- nc -lvp <port>: it can be used for listen local port on web Browser.

3



```
(mudit@kali)-[~/Desktop/NetCat]
$ nc -lvp 8501
listening on [any] 8501 ...
```

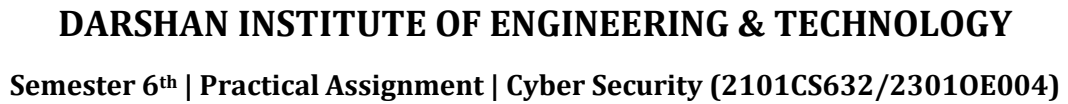
- nc -g: It can be use to connect with port via gateway.

```
(mudit@kali)-[~/Desktop/NetCat]
$ nc -g 192.168.31.1 -G 4 192.168.31.92 80
(UNKNOWN) [192.168.31.92] 80 (http) : Connection timed out
```

- nc -zv localhost 1-65535: This scans all ports (1-65535) and tells you which ones are open.

```
(mudit@kali)-[~/Desktop/NetCat]
$ nc -zv localhost 1-65535
localhost [127.0.0.1] 48048 (?) open
localhost [127.0.0.1] 39395 (?) open
localhost [127.0.0.1] 37720 (?) open
localhost [127.0.0.1] 36895 (?) open
localhost [127.0.0.1] 33549 (?) open
localhost [127.0.0.1] 8501 (?) open
localhost [127.0.0.1] 1234 (?) open
```

- echo -e "GET / HTTP/1.1\r\nHost: localhost\r\n\r\n" | nc localhost 80:
  - Replace 80 with the port where your HTTP server is running.



```
(mudit@kali)-[~/Desktop/NetCat]
$ echo -e "GET / HTTP/1.1\r\nHost: localhost\r\n\r\n" | nc localhost 80
localhost [127.0.0.1] 80 (http) : Connection refused
```

[illegible]

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- Search FTP:
  - This command lists all FTP-related modules, including **exploits**, **auxiliary tools** (like brute force or enumeration), and **post-exploitation modules**. For example, auxiliary/scanner/ftp/anonymous checks for anonymous FTP access.

```
msf6 > search ftp
Matching Modules
=====
#  Name
-  -
0  exploit/windows/ftp/32bitftp_list_reply
1  exploit/windows/ftp/threectftpsvc_long_mode
2  exploit/windows/ftp/3cdaemon_ftp_user
3  3Com 3CDaemon 2.0 FTP Username Overflow
4  \_ target: Automatic
5  \_ target: Windows 2000 English
6  \_ target: Windows XP English SP0/SP1
7  \_ target: Windows NT 4.0 SP4/SP5/SP6
8  \_ target: Windows 2000 Pro SP4 French
9  \_ target: Windows XP English SP3
10 exploit/windows/ftp/aasync_list_reply
11 AASync v2.2.1.0 (Win32) Stack Buffer Overflow (LIST)
12 exploit/windows/misc/ais_esel_server_rce
13 AIS logistics ESEL-Server Unauth SQL Injection RCE
14 exploit/windows/ftp/ability_server_stor
15 Ability Server 2.34 STOR Command Stack Buffer Overflow
16 \_ target: Automatic
```

- search vsftpd:
  - This will list modules related to the **vsftpd** service, such as the well-known **exploit/unix/ftp/vsftpd\_234\_backdoor**, which targets a backdoor in **vsftpd v2.3.4** to gain shell access.

```
msf6 > search vsftpd
Matching Modules
=====
#  Name
-  -
0  auxiliary/dos/ftp/vsftpd_232
1  exploit/unix/ftp/vsftpd_234_backdoor
```



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- Use 1: it can use 1 option in given options:
- Set RHOTS: Set ip address in RHOTS

```
msf6 > use 1
[*] No payload configured, defaulting to cmd/unix/interact
msf6 exploit(unix/ftp/vsftpd_234_backdoor) > show options

Module options (exploit/unix/ftp/vsftpd_234_backdoor):

Name      Current Setting  Required  Description
-----
CHOST      module appropriately  no        The local client address
CPORT      module appropriately  no        The local client port
Proxies    no                no        A proxy chain of format type:host:port[,type:host:port][...]
RHOTS      yes               yes       The target host(s), see https://docs.metasploit.com/docs/using-metasploit/ba
RPORT      21                yes       The target port (TCP)

Exploit target:

Id  Name
--  ---
0   Automatic

View the full module info with the info, or info -d command.

msf6 exploit(unix/ftp/vsftpd_234_backdoor) > set RHOTS 192.168.1.92
RHOTS => 192.168.1.92
msf6 exploit(unix/ftp/vsftpd_234_backdoor) > show options

Module options (exploit/unix/ftp/vsftpd_234_backdoor):

Name      Current Setting  Required  Description
-----
CHOST      module appropriately  no        The local client address
CPORT      module appropriately  no        The local client port
Proxies    no                no        A proxy chain of format type:host:port[,type:host:port][...]
RHOTS      192.168.1.92      yes       The target host(s), see https://docs.metasploit.com/docs/using-metasploit/ba
RPORT      21                yes       The target port (TCP)

Exploit target:
```