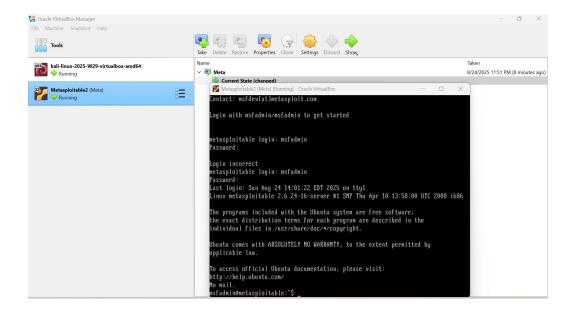
# 1. Metasploitable is successfully hosted inside Oracle VirtualBox



#### 2. Created a File on Kali as Transfer.txt

There are different ways to create a file in Kali Linux:

- ❖ Using the **echo** command This allows us to create a file and directly insert text into it.
- ❖ Using the **touch** command This simply creates an empty file.
- ❖ Using the **cat** command This lets us create a file and type multiple lines of content. We finish by pressing CTRL+D.
- ❖ Using a text editor like nano This opens a text editor inside the terminal. We can type content, then save and exit.

### I used cat command

#### Cat>transfer.txt

Used **cntrl+D** for save & exitListed files in kali using command **ls** 

Listed entire content of the file using cat transfer.txt



# 3. Using Netcat – Uploading a File to Metasploitable and Downloading it Back to Kali

• Setting metasploitable to listening mode:

nc -l -p 1234 > upload.txt

Send File from Kali to Metasploitable

nc 192.168.56.102 1234 < transfer.txt

```
File Actions Edit View Help
eth0: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
        inet 192.168.56.101 netmask 255.255.255.0 broadcast 192.168.56.255
        inet6 fe80::e96d:c709:e056:34b6 prefixlen 64 scopeid 0×20<link>
       ether 08:00:27:61:c7:3d txqueuelen 1000 (Ethernet)
       RX packets 698735 bytes 920104396 (877.4 MiB)
       RX errors 0 dropped 0 overruns 0 frame 0
       TX packets 186000 bytes 12599567 (12.0 MiB)
       TX errors 0 dropped 1 overruns 0 carrier 0 collisions 0
lo: flags=73<UP,LOOPBACK,RUNNING> mtu 65536
        inet 127.0.0.1 netmask 255.0.0.0
       inet6 ::1 prefixlen 128 scopeid 0×10<host>
       loop txqueuelen 1000 (Local Loopback)
RX packets 92 bytes 5768 (5.6 KiB)
       RX errors 0 dropped 0 overruns 0 frame 0
       TX packets 92 bytes 5768 (5.6 KiB)
       TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
nc 192.168.56.102 1234 < transfer.txt
```

- 192.168.56.102  $\rightarrow$  Metasploitable IP
- 1234  $\rightarrow$  port matching the listener
- < transfer.txt → sends file content</li>

## • Verify Upload on Metasploitable

#### Cntrl+C

1s

cat upload.txt

```
🌠 Metasploitable2 (Meta) [Running] - Oracle VirtualBox
                                                                          П
                                                                                X
          UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1
          RX packets:46 errors:0 dropped:0 overruns:0 frame:0
          TX packets:96 errors:0 dropped:0 overruns:0 carrier:0
          collisions:0 txqueuelen:1000
          RX bytes:6863 (6.7 KB) TX bytes:12262 (11.9 KB)
          Base address:0xd020 Memory:f0200000-f0220000
lo
          Link encap:Local Loopback
          inet addr:127.0.0.1 Mask:255.0.0.0
          inet6 addr: ::1/128 Scope:Host
UP LOOPBACK RUNNING MIU:16436 Metric:1
          RX packets:168 errors:0 dropped:0 overruns:0 frame:0
          TX packets:168 errors:0 dropped:0 overruns:0 carrier:0
          collisions:0 txqueuelen:0
          RX bytes:56553 (55.2 KB) TX bytes:56553 (55.2 KB)
nsfadmin@metasploitable:~$ nc -l -p 1234 > upload.txt
nsfadmin@metasploitable:~$ ls
eceived.txt upload.txt vulnerable
nsfadmin@metasploitable:~$ cat upload.txt
Mame: Athulya
Lab: Netcat file transfer
Purpose: Test upload and download between Kali and Metasploitablensfadmin@netasp
loitable:"$
```

#### Prepare Kali to Receive File Back (Download)

nc -l -p 4444 > downloaded.txt

```
(kali@ kali)-[~]
    ifconfig
eth0: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
    inet 192.168.56.101 netmask 255.255.255.0 broadcast 192.168.56.255
    inet6 fe80::e96d:c709:e056:34b6 prefixlen 64 scopeid 0×20cther 08:00:27:61:c7:3d txqueuelen 1000 (Ethernet)
    RX packets 698760 bytes 920107482 (877.4 MiB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 186020 bytes 12601431 (12.0 MiB)
    TX errors 0 dropped 1 overruns 0 carrier 0 collisions 0

lo: flags=73<UP,LOOPBACK,RUNNING> mtu 65536
    inet 127.0.0.1 netmask 255.0.0.0
    inet6 ::1 prefixlen 128 scopeid 0*10
    loop txqueuelen 1000 (Local Loopback)
    RX packets 92 bytes 5768 (5.6 KiB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 92 bytes 5768 (5.6 KiB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

(kali@ kali)-[~]
    nc -l -p 4444 > downloaded.txt
```

# • Send File Back from Metasploitable to Kali

nc 192.168.56.101 4444 < received.txt

```
msfadmin@metasploitable:"$ nc -l -p 1234 > upload.txt

msfadmin@metasploitable:"$ ls

received.txt upload.txt vulnerable

msfadmin@metasploitable:"$ cat upload.txt

Name: Athulya

Lab: Netcat file transfer

Purpose: Test upload and download between Kali and Metasploitablemsfadmin@metasp

loitable:"$ nc 192.168.56.101 4444 < upload.txt
```

# • Verify download on kali

Cntrl+C

1s

cat upload.txt