

Date
09/08/21

Neeraj Appen

Linux Practical-05

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* Aim - Install DNS server BIND, Configure DNS Server which resolves domain name or IP address install BIND9, Configure BIND, limit ranges you allow to access needed

* Description

* Define

1) DNS Server

When users type domain type domain name into url bar in their browser, DNS servers are responsible for translating these domains name to numeric IP address leading them to correct website. DNS is responsible for finding the correct website IP address for those sites. Browsers then use those address to communicate with origin servers or CDN edge servers to access website information.

2) BIND -

BIND is a suite of software for interacting with the Domain Name System (DNS). Its most prominent component performs both of the main DNS server roles, acting as an authoritative name server for DNS zones as an authoritative name server for DNS zones and as a recursive resolver in the network. It is the most widely used domain name software. It also

contained in suite are various administration tools such as nsupdate and dig and a DNS server resolver interface library

Steps.

Server Side

1. Update the repositories execute this command.
Sudo apt-get update
2. Install the bind packages with given command
sudo apt-get install bind9 bind9utils
- 3) To set the hostname with the command
hostnamectl set-hostname ^{nileeraj}example.com
- 4) Open and edit interfaces file
sudo nano /etc/network/interfaces
- 5) Restart network manager.
ch restart Network Manager
- 6) ^{open}Configure bind file folder
cd /etc/bind
cat ls
- 7) Edit local, forward and reverse file
→ etc sudo nano /etc/bind/named.conf.local
sudo nano /etc/bind/named.conf.forward.example.com
sudo nano /etc/bind/reverse.example.com

8) Configure bind

sudo systemctl start bind
 sudo systemctl enable bind
 for options
 ll

9) To see if system is running

sudo systemctl status bind
 enable if status is inactive
 sudo systemctl enable bind

10) Configure Edit network interface file

sudo nano /etc/network/interfaces

dns - search - example.com
 dns - nameserver 192.168.220.129

11) Configure networking
 sudo systemctl

12) edit /etc/resolv.conf

nameserver 192.168.173.132

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122) Ping the system

ping cs

13

24)

Configure nslookup

nslookup cs

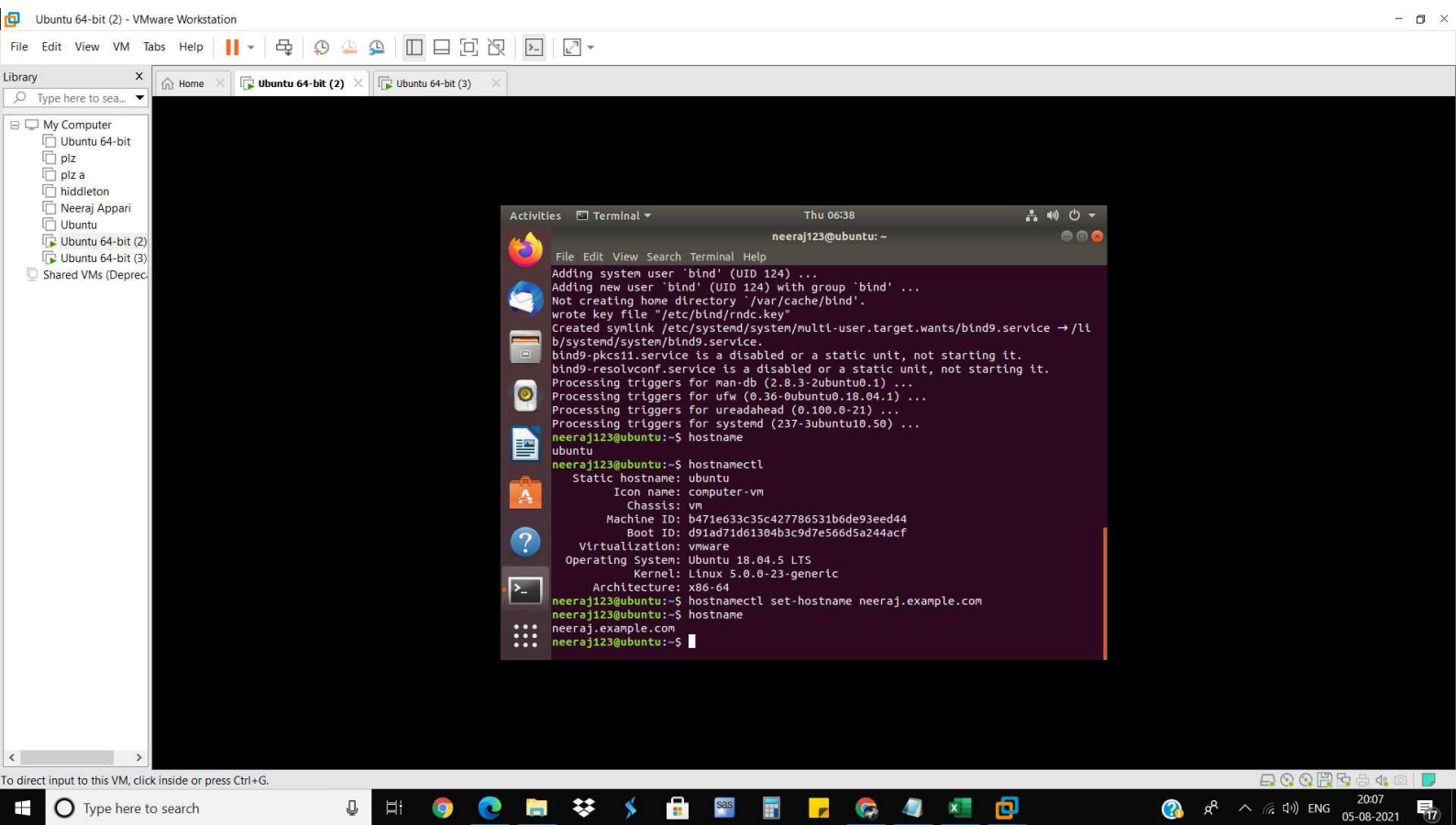
nslookup host

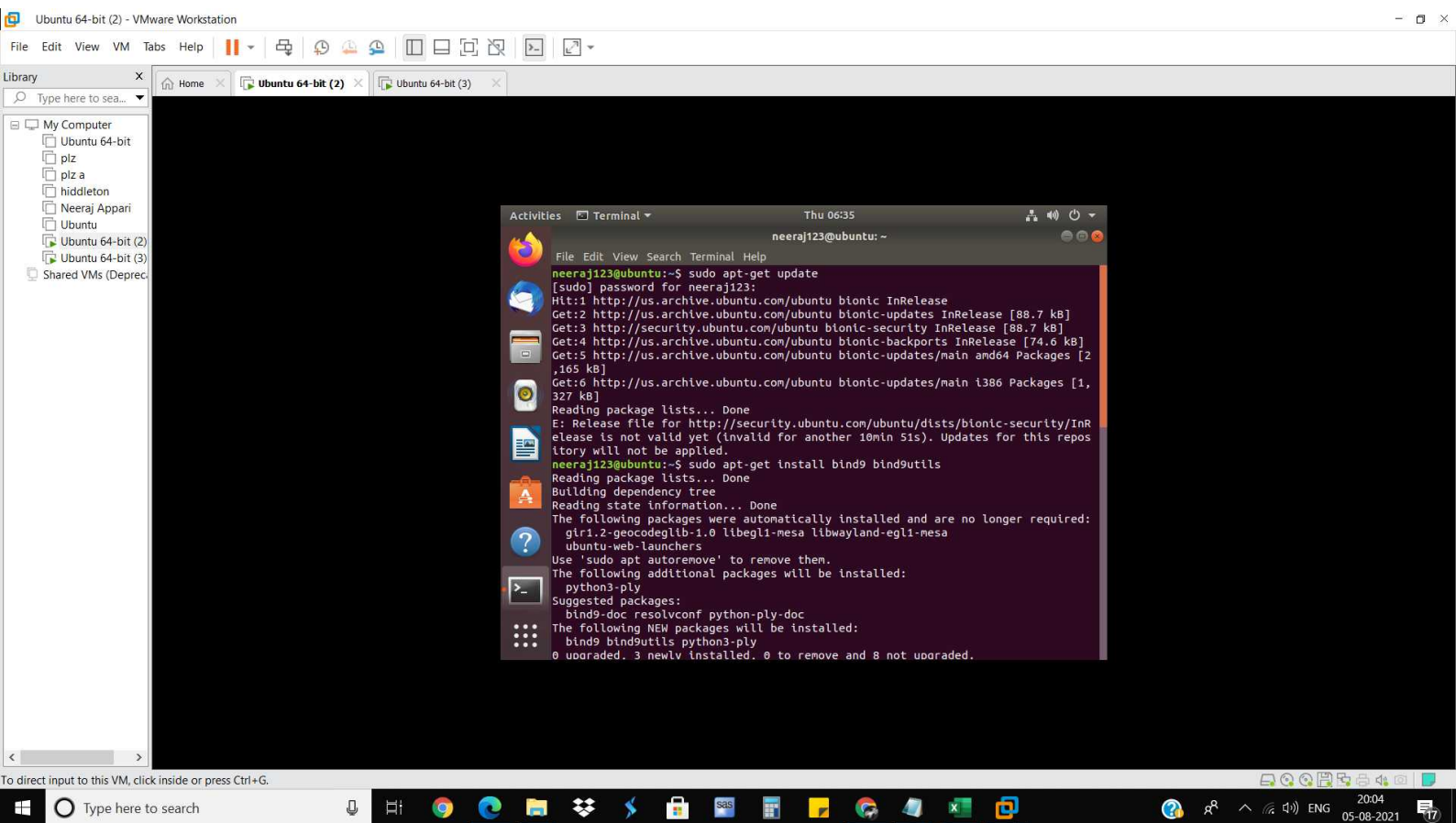
nslookup client

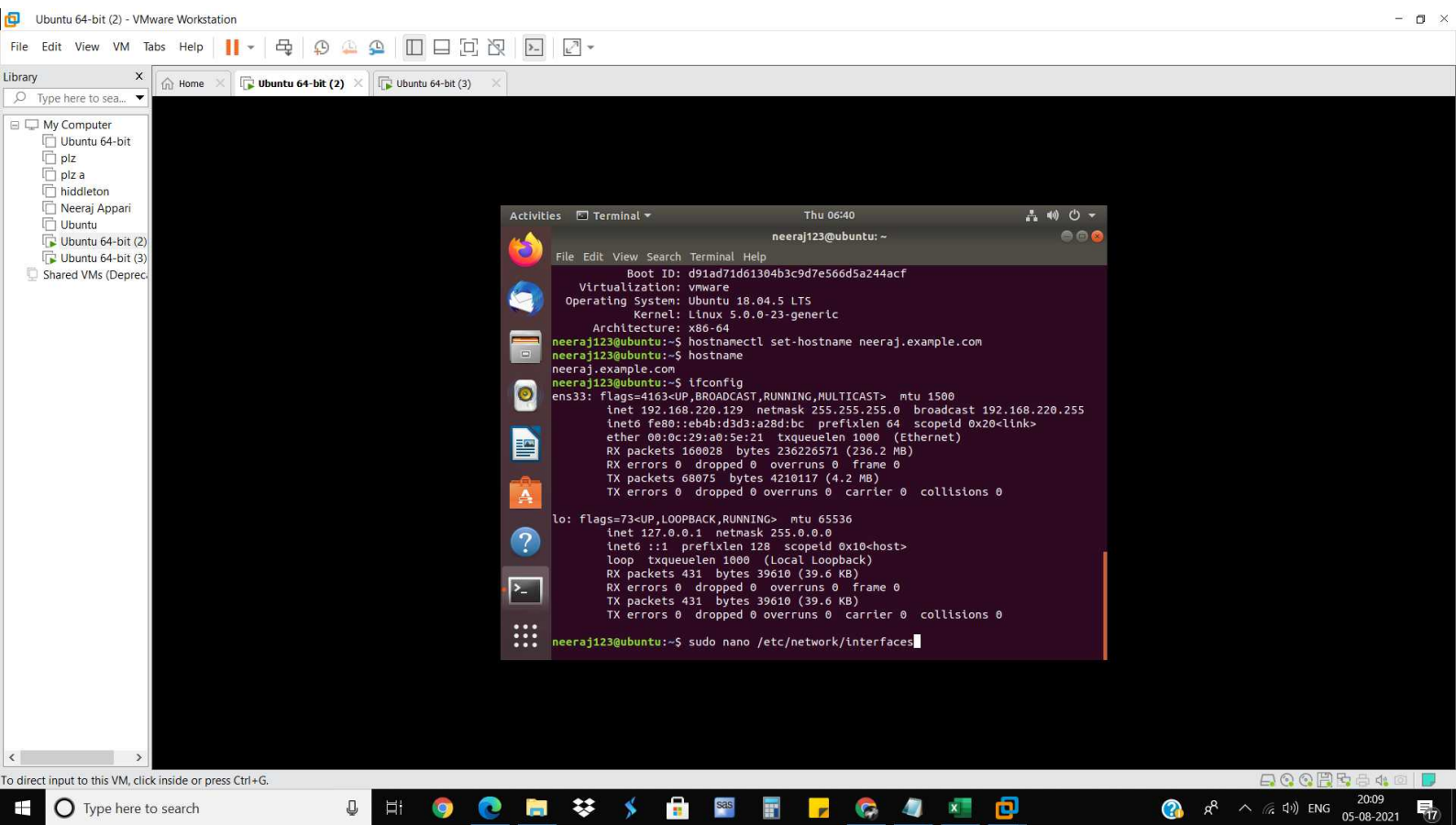
nslookup client2

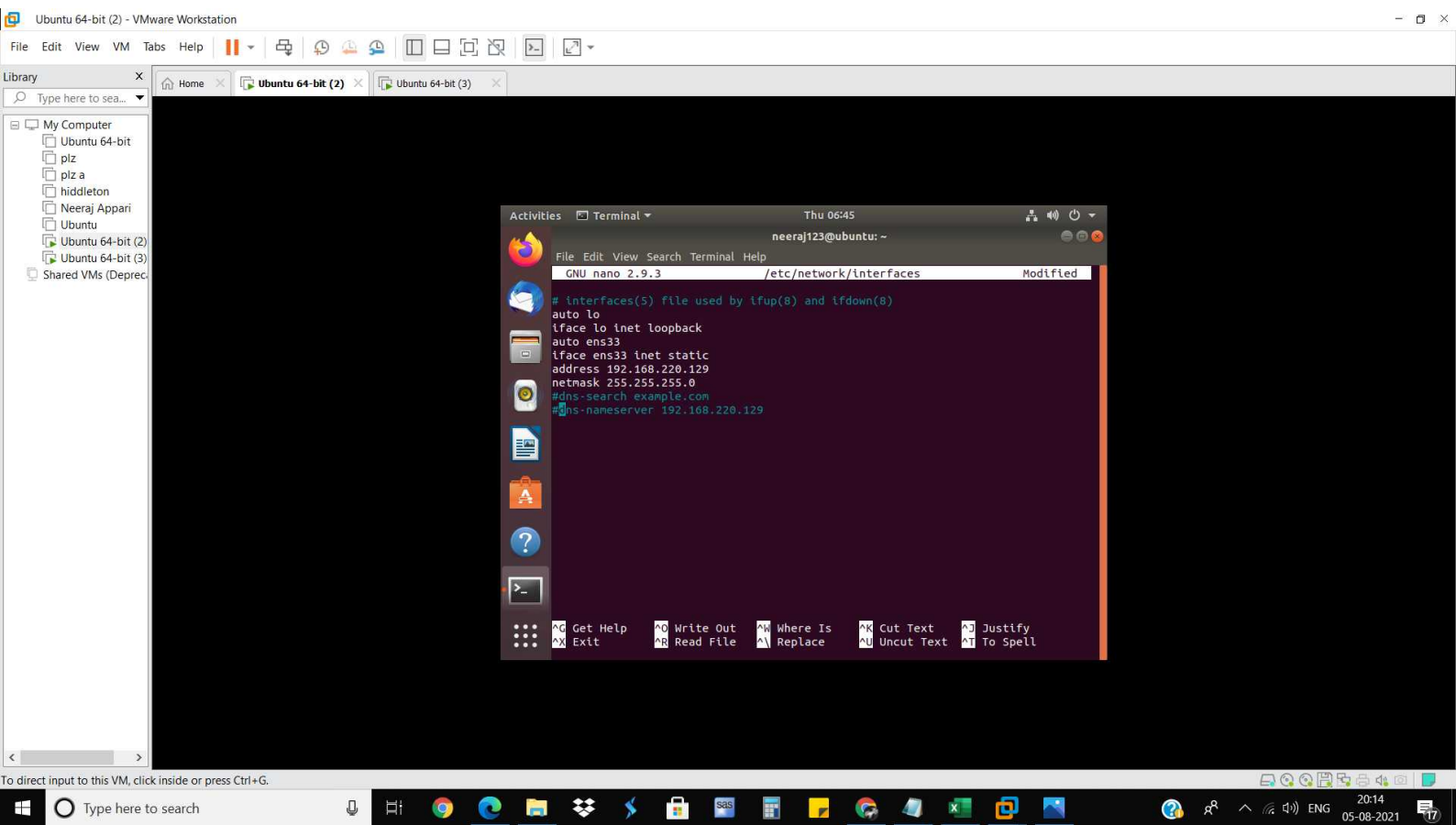
14
25)

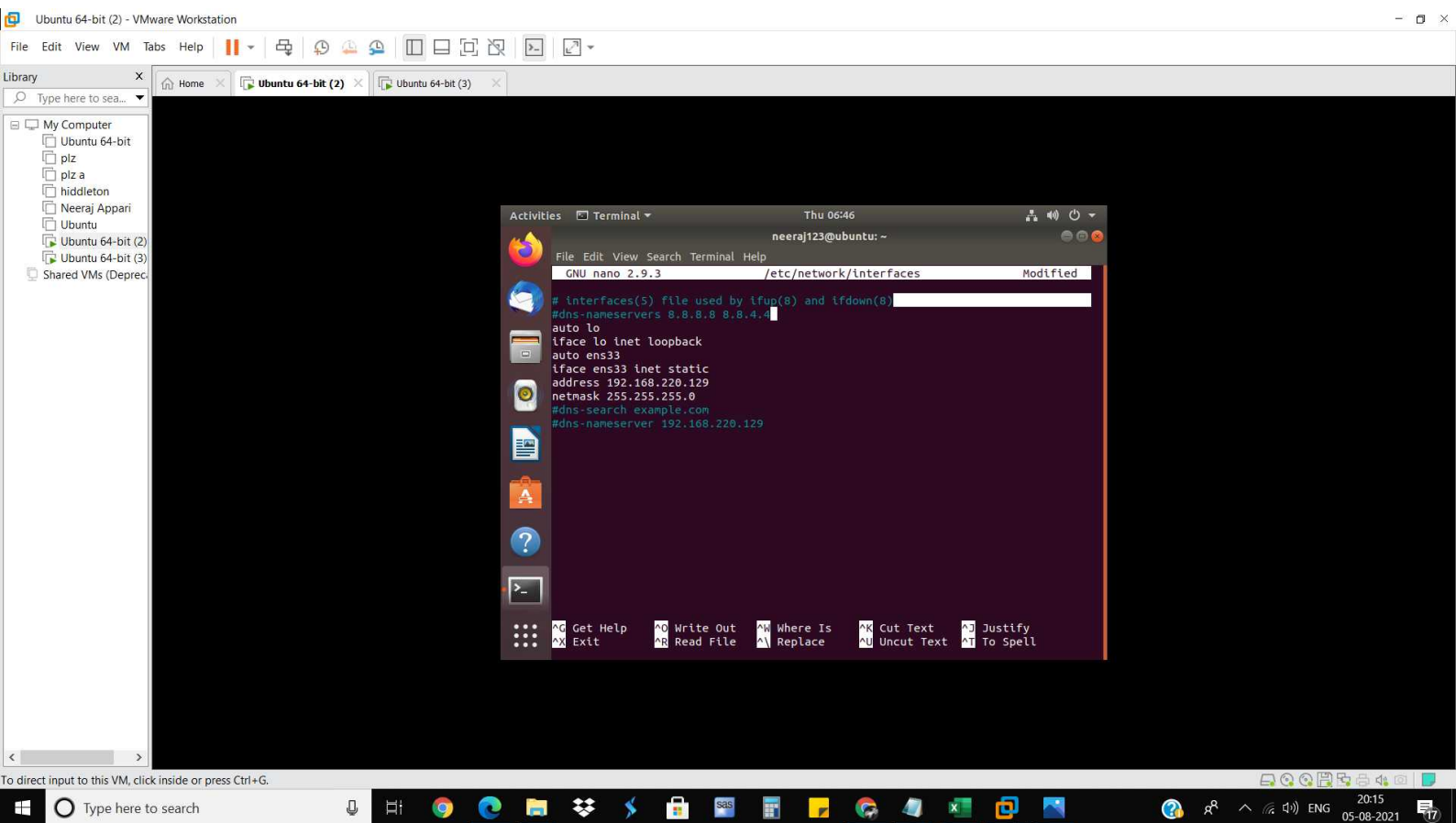
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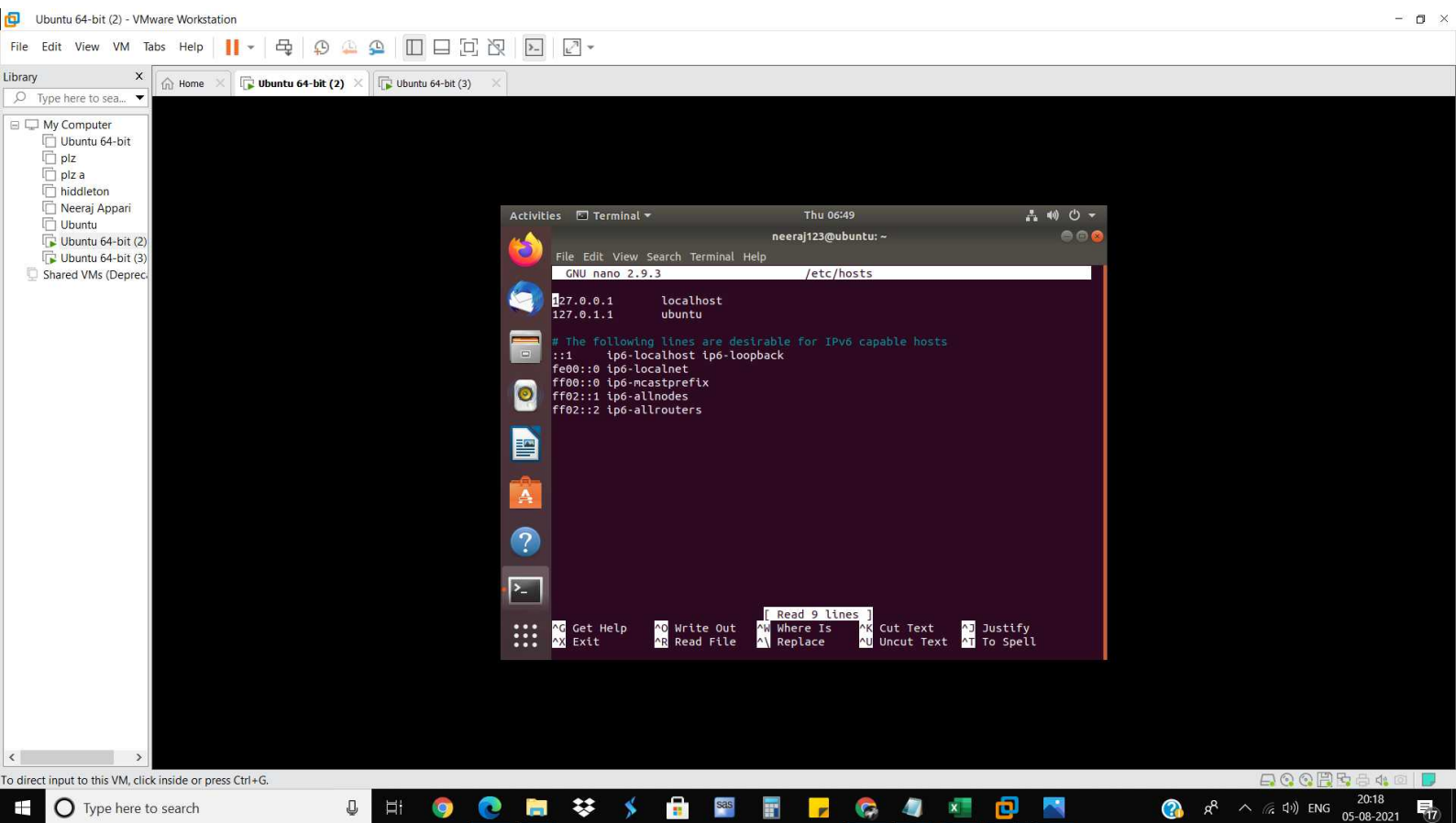


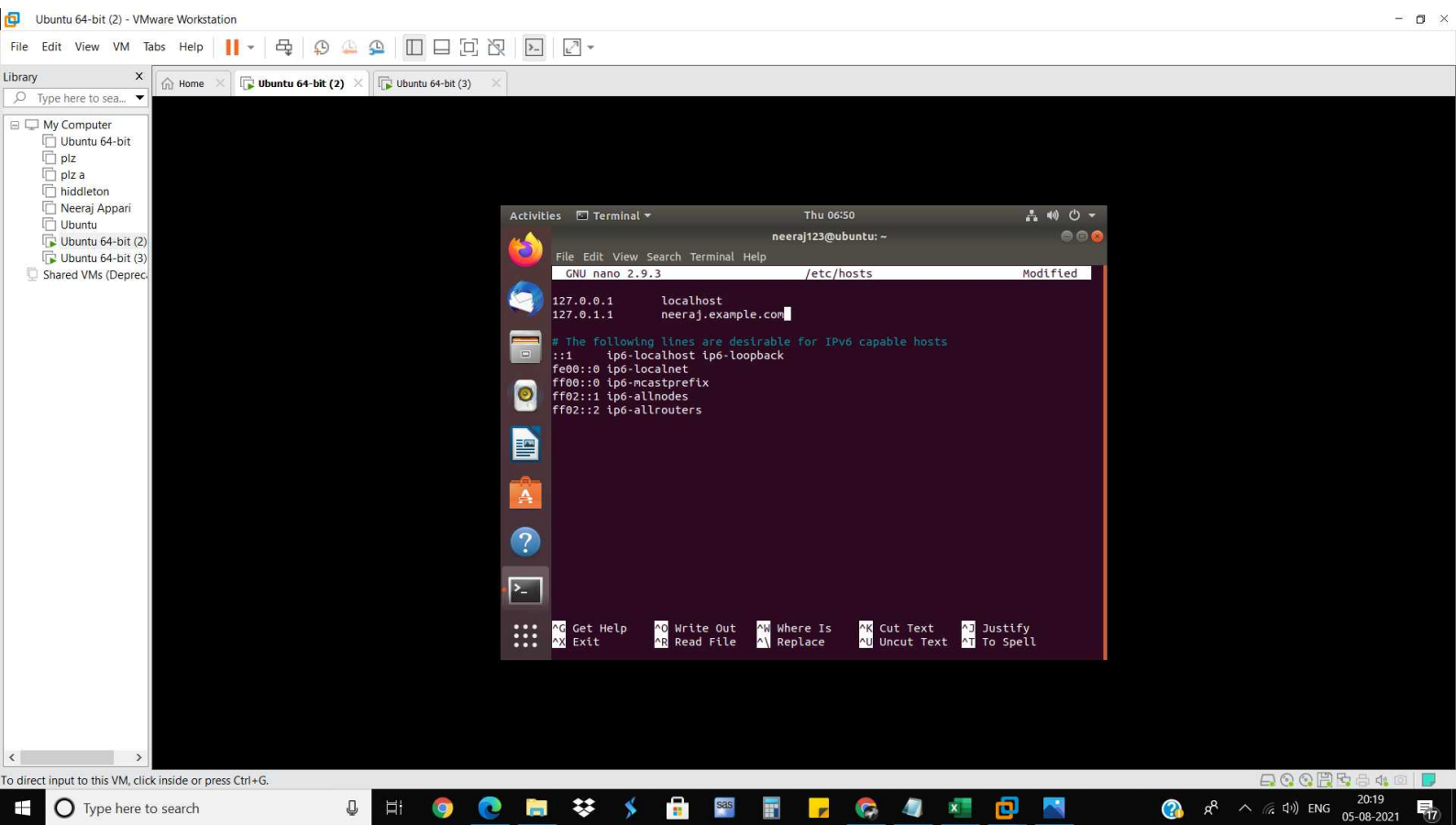


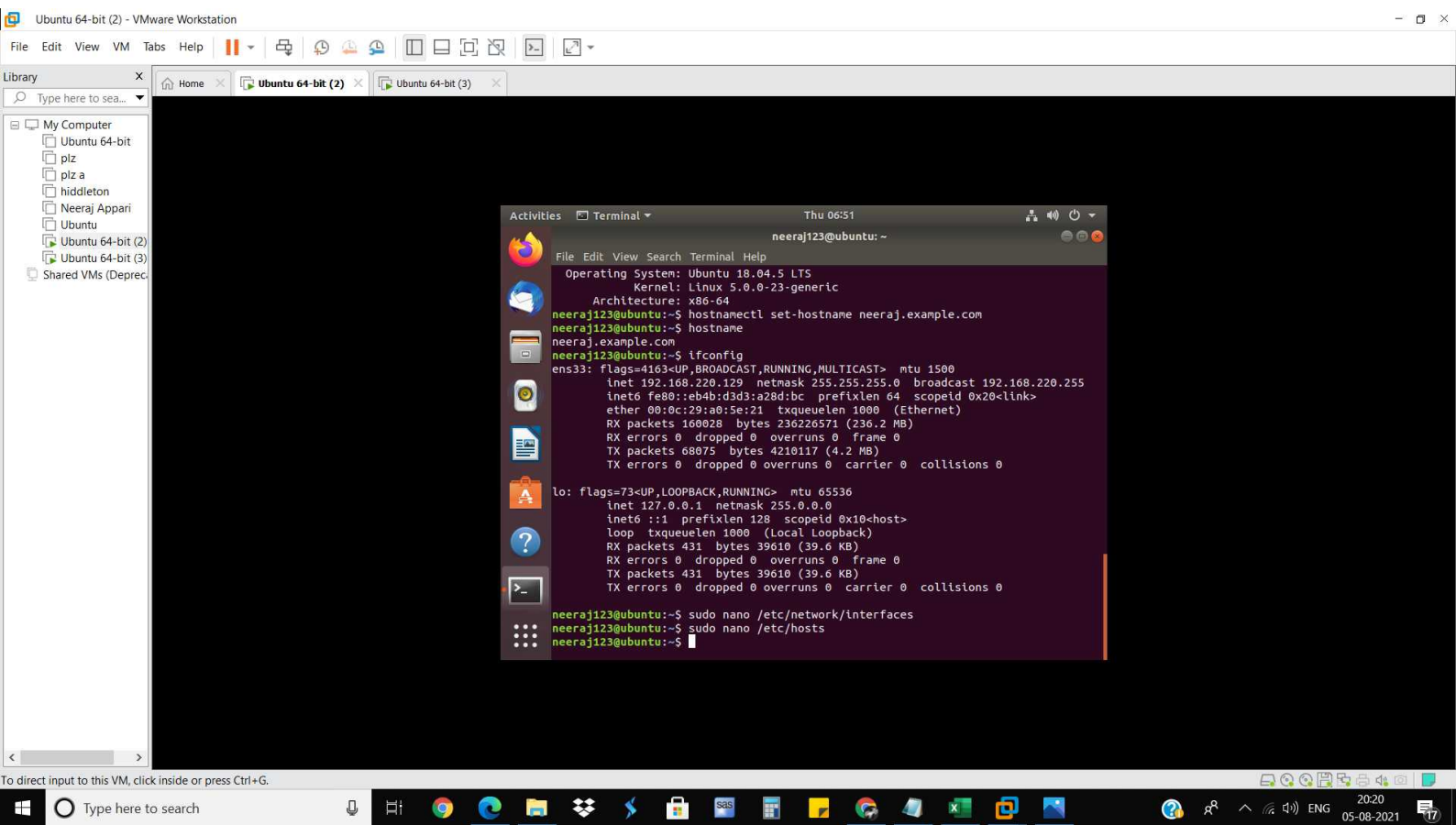












Ubuntu 64-bit (2) - VMware Workstation

File Edit View VM Tabs Help

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- plz a
- hiddleton
- Neeraj Appari
- Ubuntu
- Ubuntu 64-bit (2)
- Ubuntu 64-bit (3)
- Shared VMs (Deprec

Activities Terminal Thu 06:53

neeraj123@ubuntu: ~

```
neeraj123@ubuntu:~$ hostname
neeraj.example.com
neeraj123@ubuntu:~$ ifconfig
ens33: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
    inet 192.168.220.129 netmask 255.255.255.0 broadcast 192.168.220.255
    inet6 fe80::eb4b:d3d3:a28d:bc prefixlen 64 scopeid 0x20<link>
    ether 00:0c:29:a0:5e:21 txqueuelen 1000 (Ethernet)
    RX packets 160028 bytes 236226571 (236.2 MB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 68075 bytes 4210117 (4.2 MB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

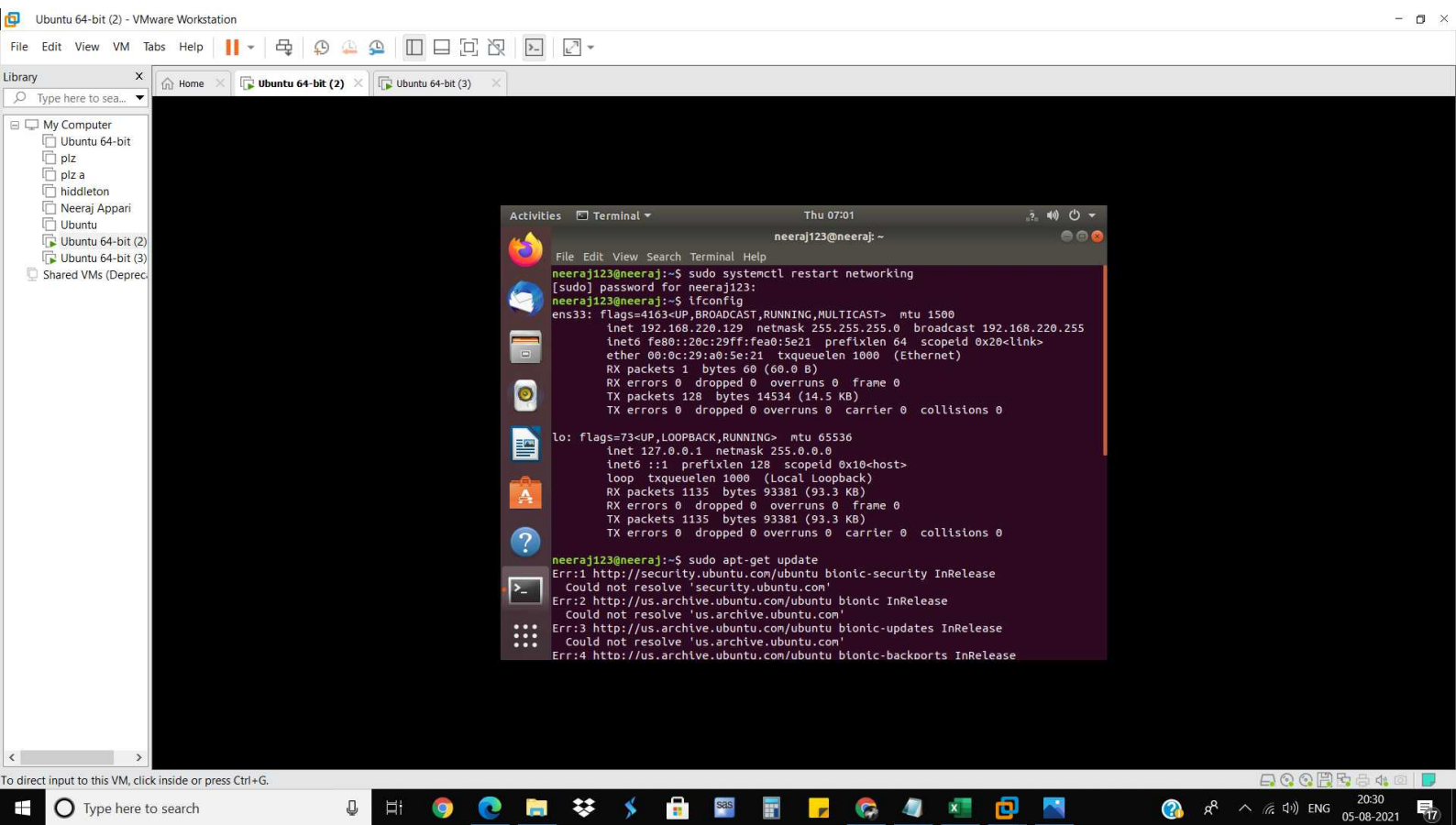
lo: flags=73<UP,LOOPBACK,RUNNING> mtu 65536
    inet 127.0.0.1 netmask 255.0.0.0
    inet6 ::1 prefixlen 128 scopeid 0x10<host>
    loop txqueuelen 1000 (Local Loopback)
    RX packets 431 bytes 39610 (39.6 KB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 431 bytes 39610 (39.6 KB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

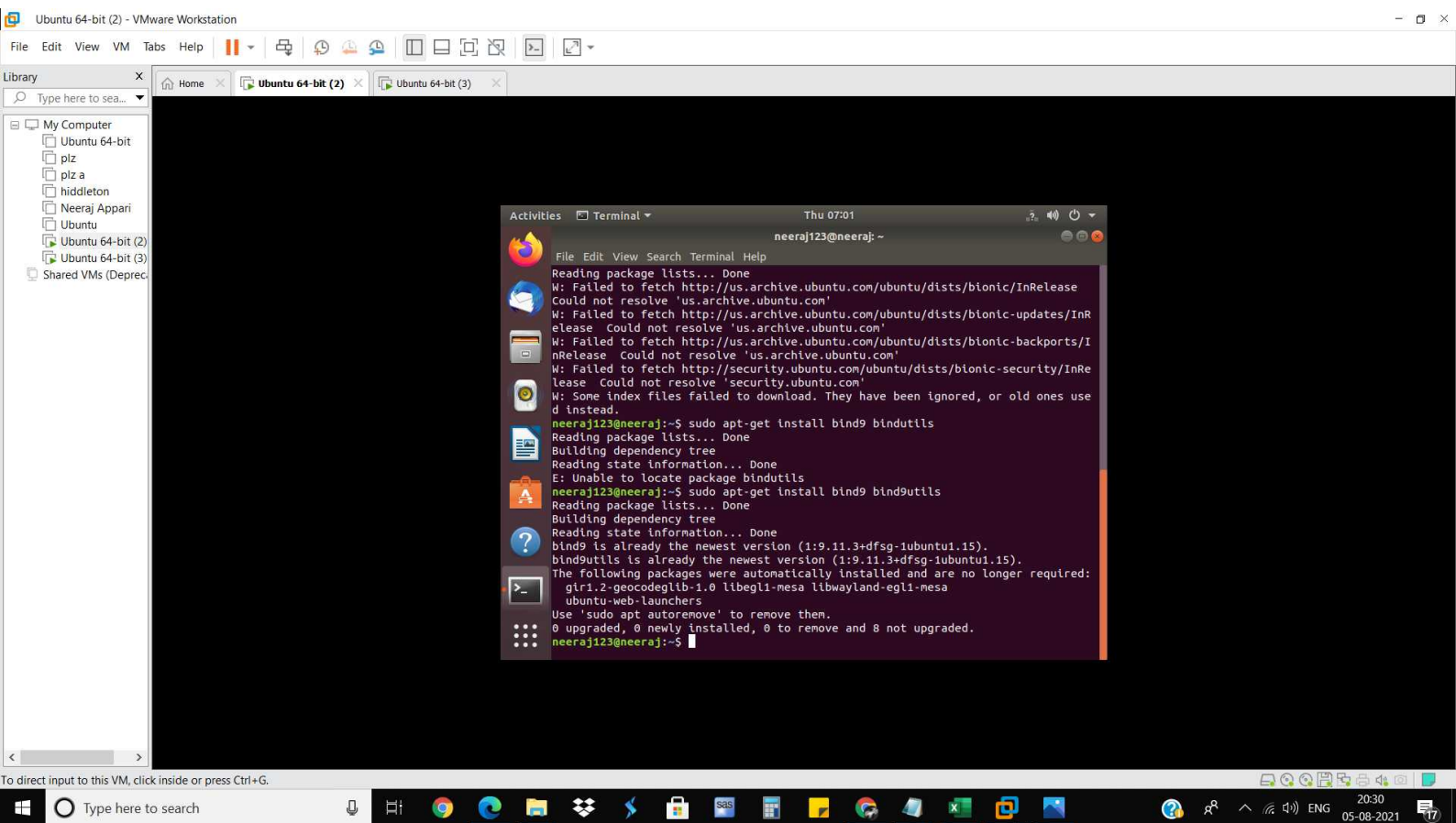
neeraj123@ubuntu:~$ sudo nano /etc/network/interfaces
neeraj123@ubuntu:~$ sudo nano /etc/hosts
neeraj123@ubuntu:~$ sudo systemctl restart networking
Job for networking.service failed because the control process exited with error
code.
See "systemctl status networking.service" and "journalctl -xe" for details.
neeraj123@ubuntu:~$
```

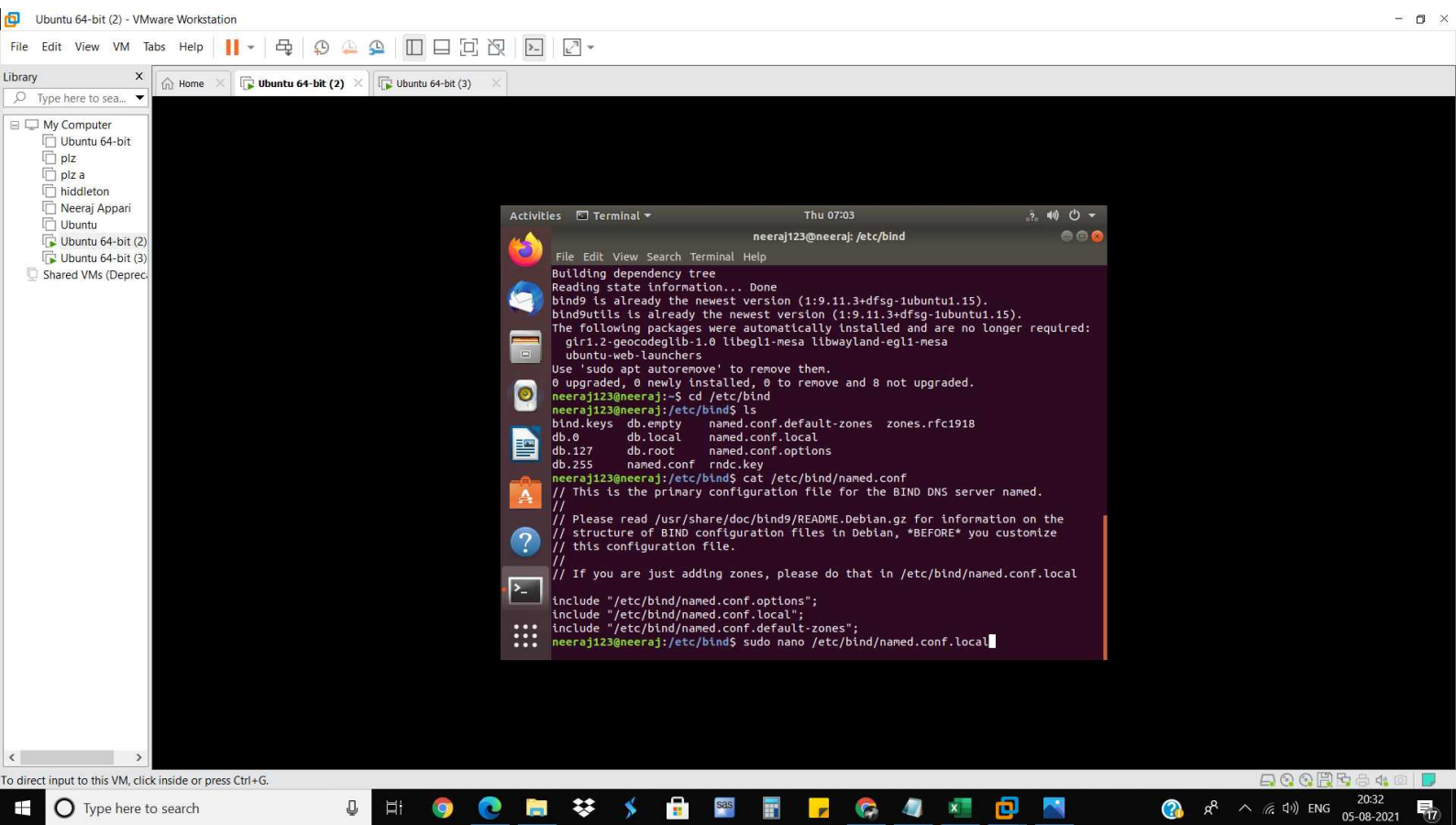
To direct input to this VM, click inside or press Ctrl+G.

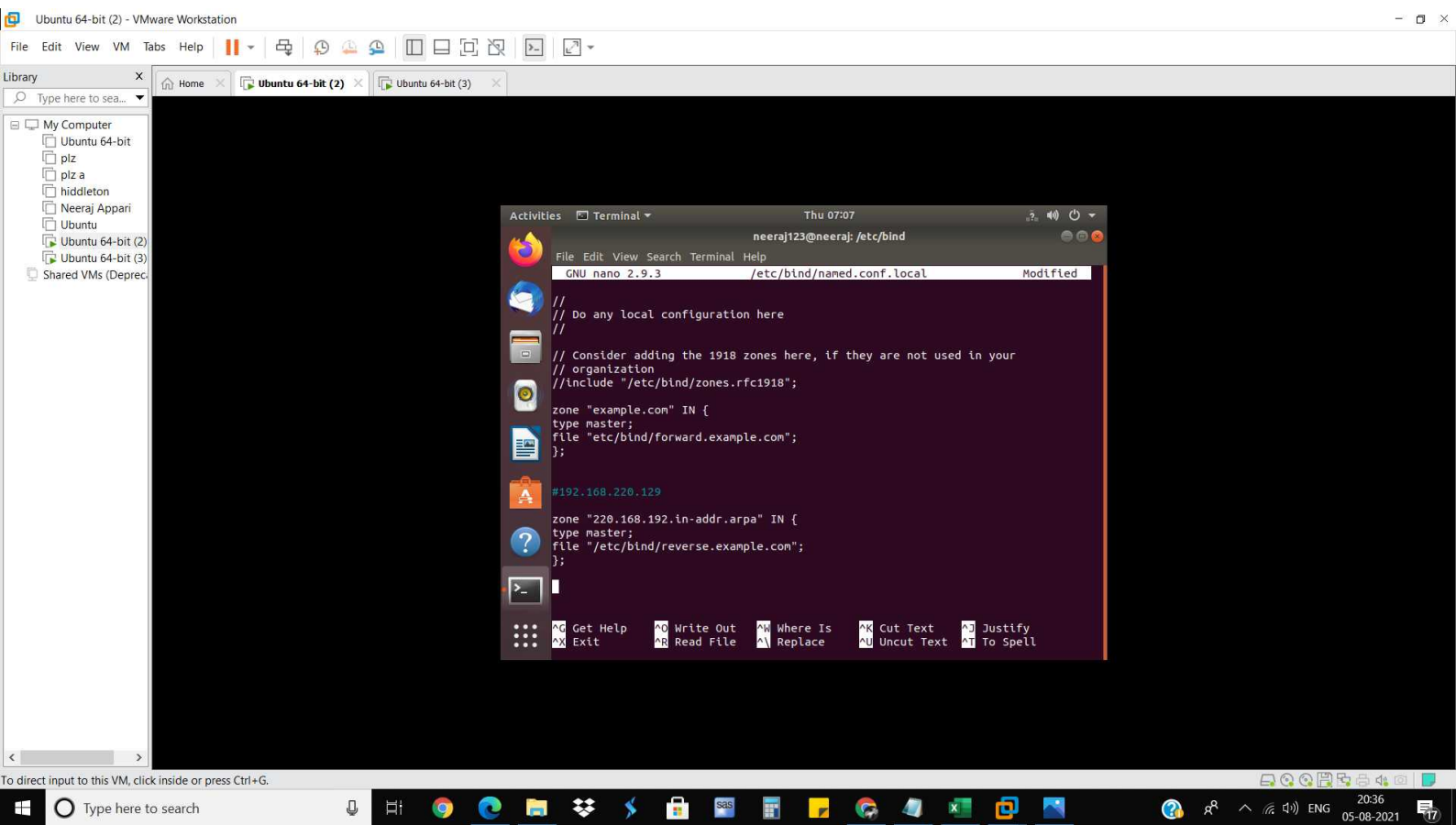
Type here to search

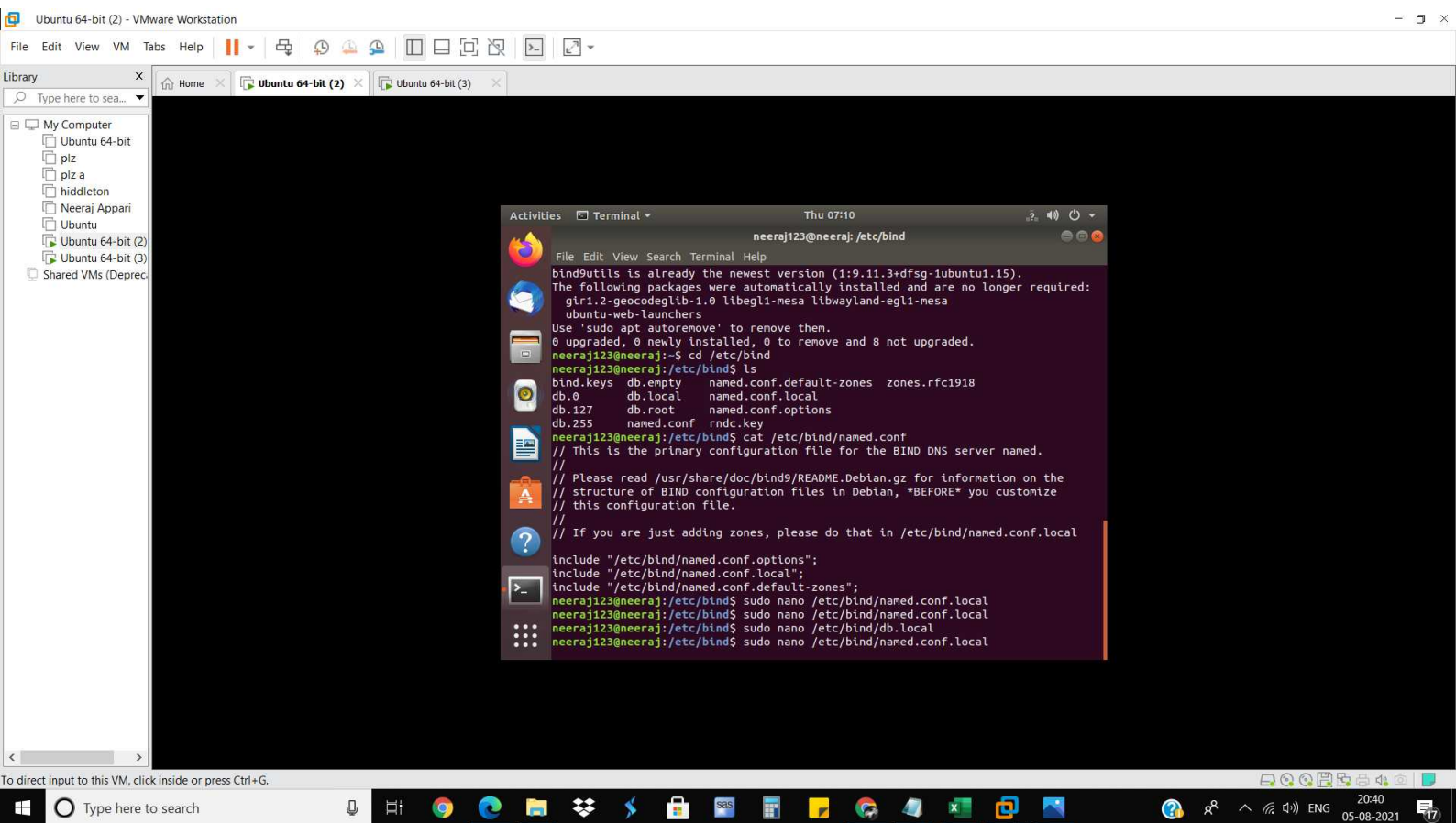
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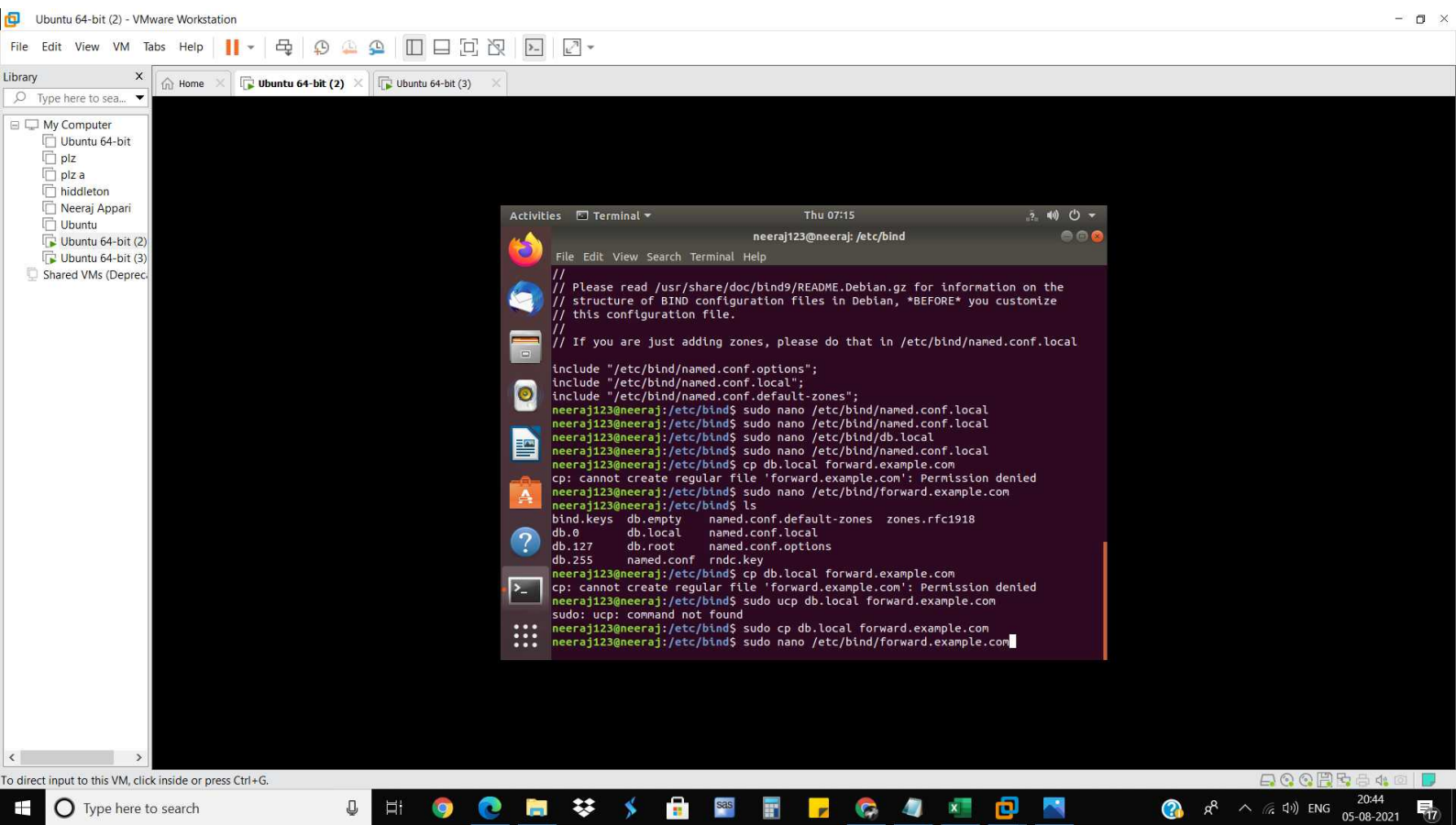


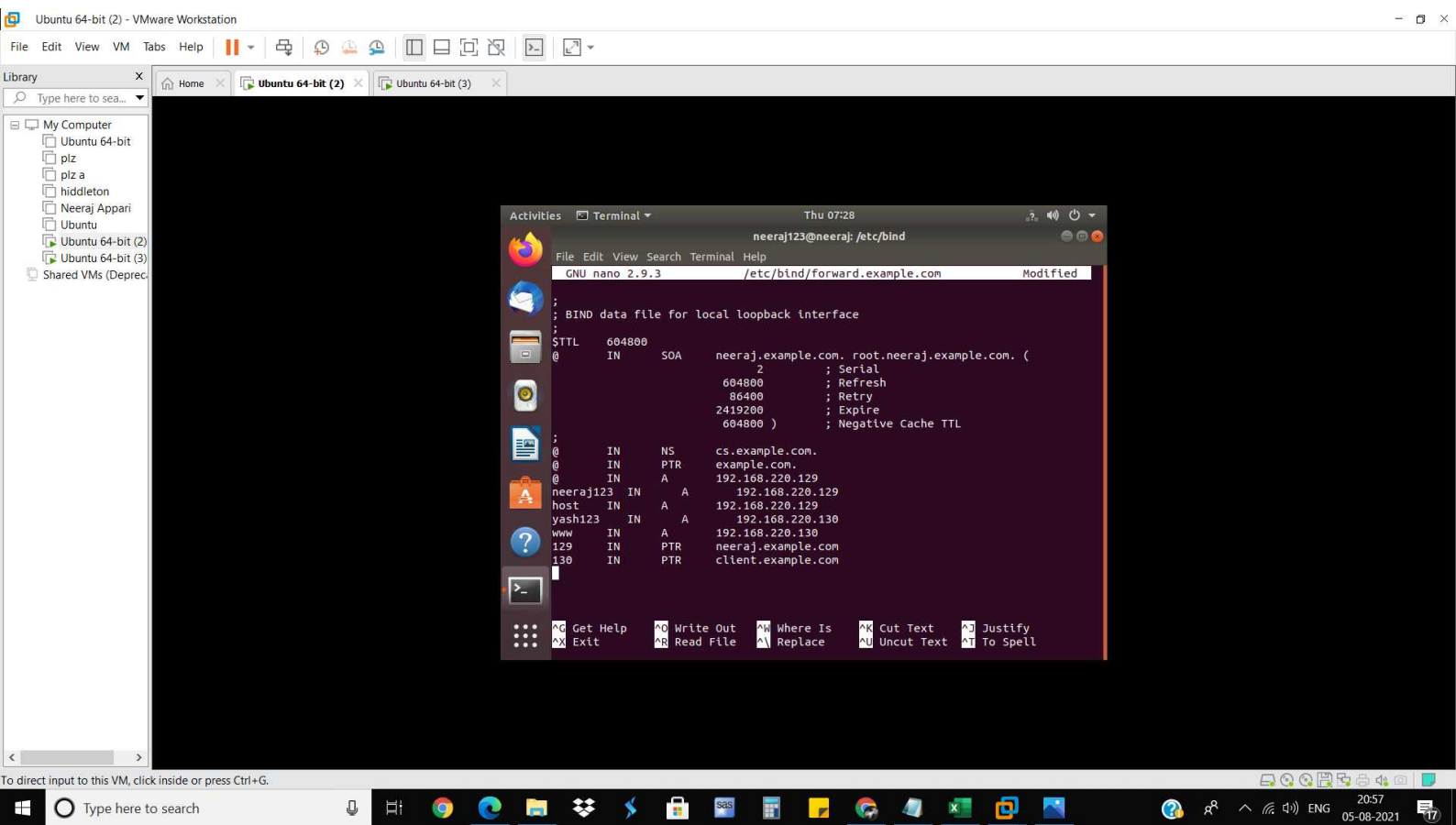


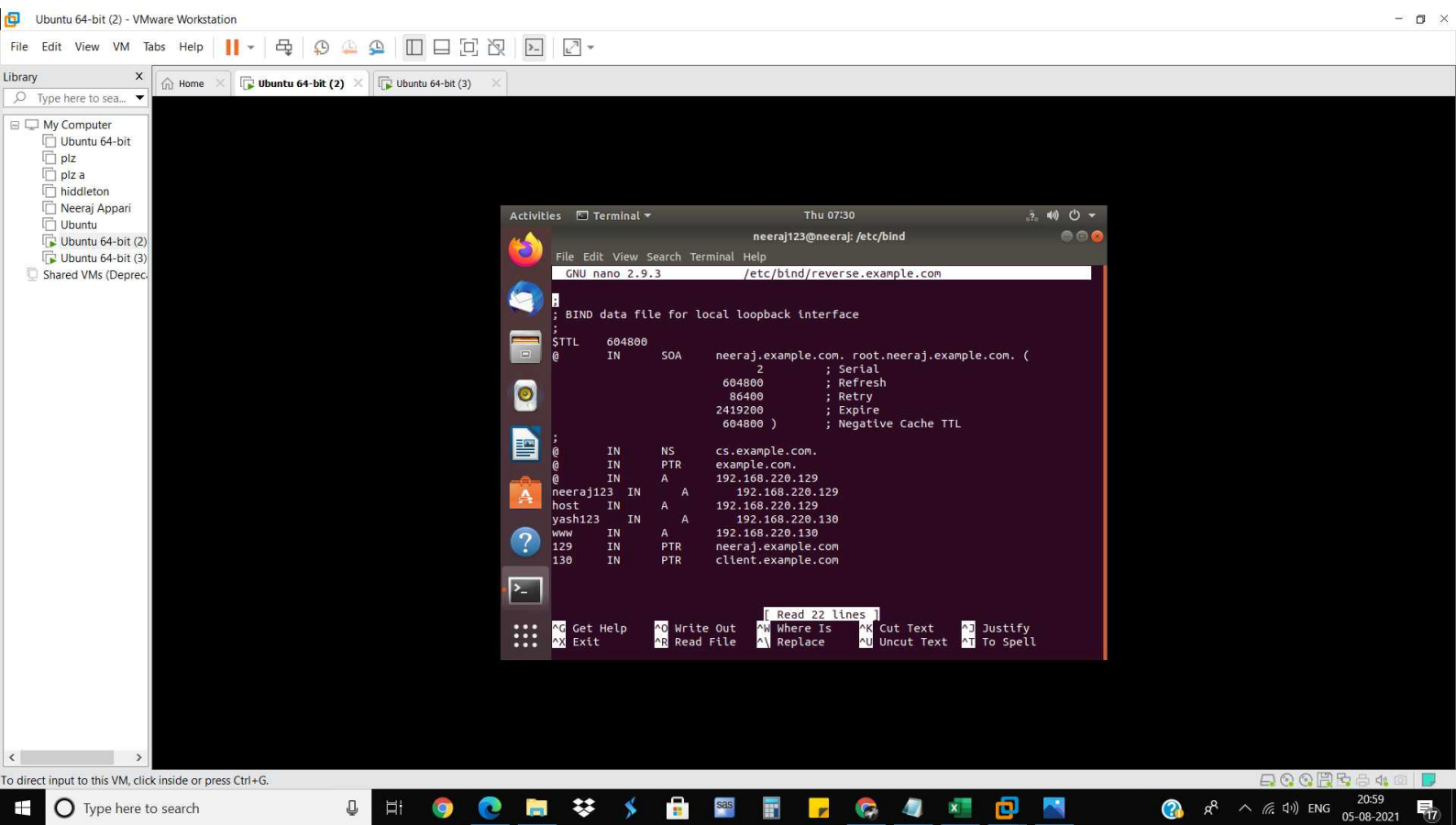












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Home x Ubuntu 64-bit (2) x Ubuntu 64-bit (3) x

Type here to sea...

Activities Terminal Thu 07:31

neeraj123@neeraj: /etc/bind

GNU nano 2.9.3 /etc/bind/forward.example.com Modified

```
;; BIND data file for local loopback interface
$TTL 604800
@ IN SOA neeraj.example.com. root.neeraj.example.com. (
    2 ; Serial
    604800 ; Refresh
    86400 ; Retry
    2419200 ; Expire
    604800 ) ; Negative Cache TTL
;
@ IN NS neeraj.example.com.
@ IN A 192.168.220.129
neeraj123 IN A 192.168.220.129
host IN A 192.168.220.129
yash123 IN A 192.168.220.130
www IN A 192.168.220.130
```

Get Help Exit Write Out Read File Where Is Replace Cut Text Uncut Text Justify To Spell

To direct input to this VM, click inside or press Ctrl+G.

Type here to search

21:00 05-08-2021

