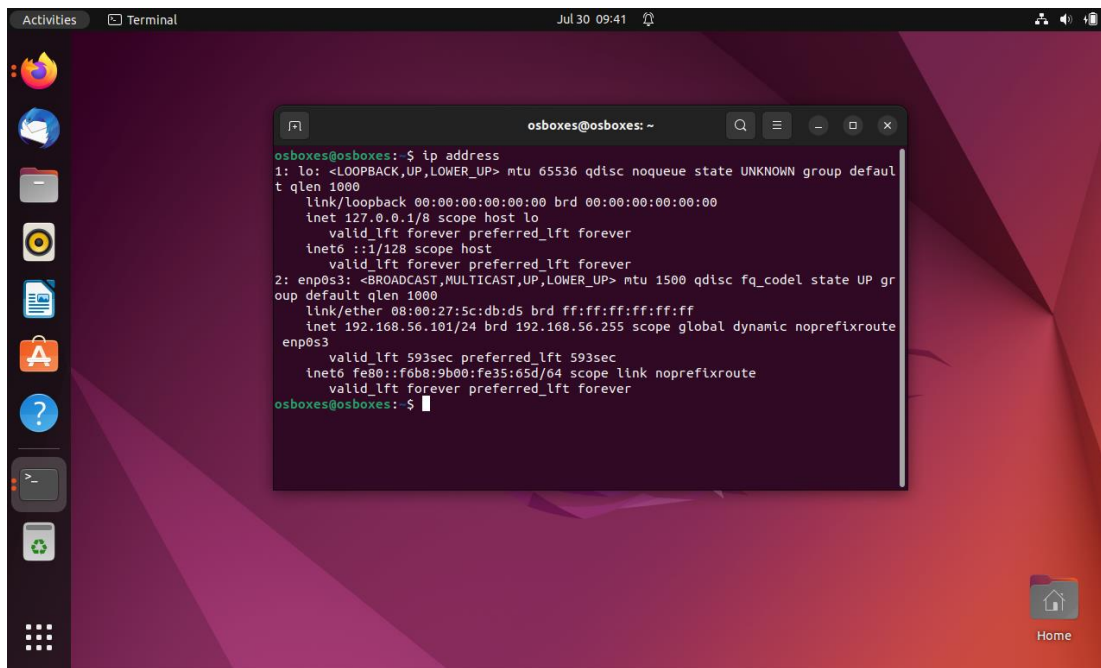


Scan the virtual machine using Nmap

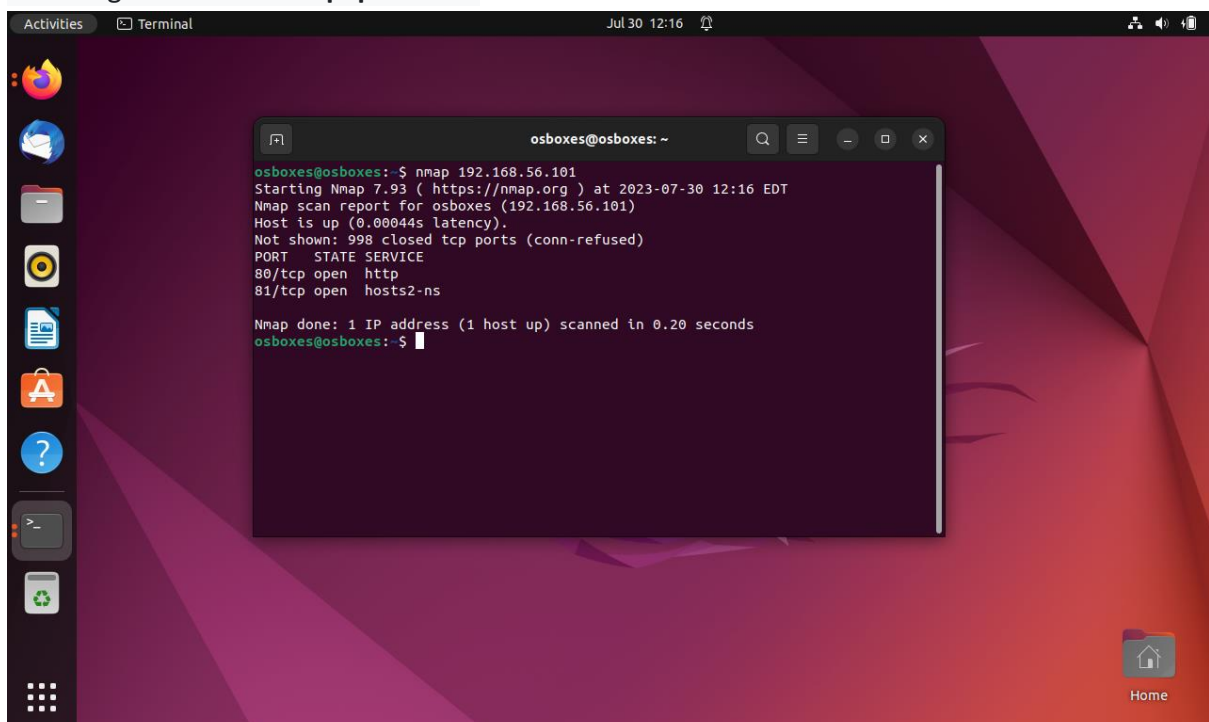
Open a terminal on your virtual machine type the “**ip address**” command to check the IP address.

A screenshot of a Linux desktop environment with a terminal window open. The terminal shows the output of the 'ip address' command, displaying details for the loopback interface 'lo' and the ethernet interface 'enp0s3'. The IP address for 'enp0s3' is 192.168.56.101.

```
osboxes@osboxes: ~  
osboxes@osboxes:~$ ip address  
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group default  
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00  
    inet 127.0.0.1/8 scope host lo  
        valid_lft forever preferred_lft forever  
    inet6 ::1/128 scope host  
        valid_lft forever preferred_lft forever  
2: enp0s3: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc fq_codel state UP group  
    default qlen 1000  
    link/ether 08:00:27:5c:db:d5 brd ff:ff:ff:ff:ff:ff  
    inet 192.168.56.101/24 brd 192.168.56.255 scope global dynamic noprefixroute  
        enp0s3  
        valid_lft 593sec preferred_lft 593sec  
    inet6 fe80::f6b8:9b00:fe35:65d/64 scope link noprefixroute  
        valid_lft forever preferred_lft forever  
osboxes@osboxes:~$
```

Using Nmap to scan the virtual machine

To use Nmap to scan the IP address of your virtual machine, launch a terminal and enter the following command: **nmap ip address**

A screenshot of a Linux desktop environment with a terminal window open. The terminal shows the output of the 'nmap 192.168.56.101' command, indicating that the host is up and open ports are 80/tcp (http) and 81/tcp (hosts2-ns).

```
osboxes@osboxes:~$ nmap 192.168.56.101  
Starting Nmap 7.93 ( https://nmap.org ) at 2023-07-30 12:16 EDT  
Nmap scan report for osboxes (192.168.56.101)  
Host is up (0.00044s latency).  
Not shown: 998 closed tcp ports (conn-refused)  
PORT      STATE SERVICE  
80/tcp    open  http  
81/tcp    open  hosts2-ns  
  
Nmap done: 1 IP address (1 host up) scanned in 0.20 seconds  
osboxes@osboxes:~$
```

Come back to your host machine :

Installing Nmap is as simple as going to the Nmap download page at <https://nmap.org/download> and downloading the version that is right for your operating system.

Using Nmap UI :

The IP address of your virtual machine should be entered in the "Target" box of Zenmap. Then, choose the profile dropdown's "Intense scan, all TCP ports" option. Finally, to start the scan, click the "Scan" button.

