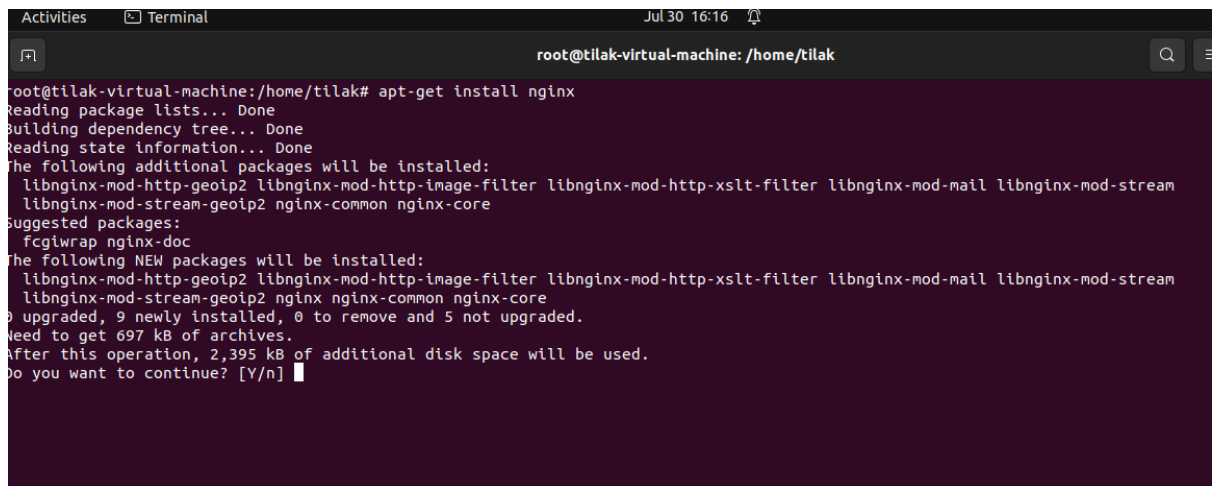


Task 1: Install Nginx inside the Ubuntu machine and host a website.

Nginx Installation:

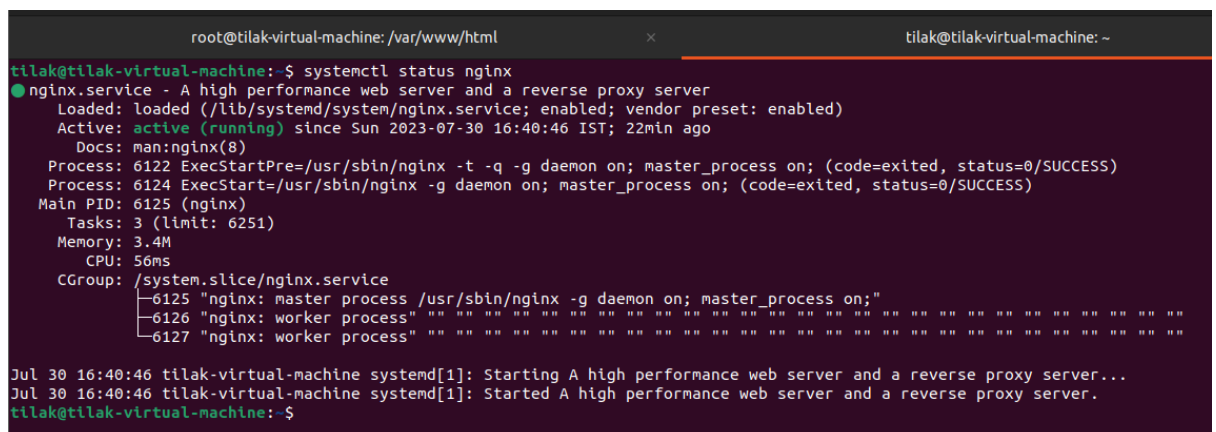
Commands used:

1. Apt-get update
2. Apt-get install nginx



```
root@tilak-virtual-machine:/home/tilak# apt-get install nginx
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
  libnginx-mod-http-geoip2 libnginx-mod-http-image-filter libnginx-mod-http-xslt-filter libnginx-mod-mail libnginx-mod-stream
  libnginx-mod-stream-geoip2 nginx-common nginx-core
Suggested packages:
  fcgiwrap nginx-doc
The following NEW packages will be installed:
  libnginx-mod-http-geoip2 libnginx-mod-http-image-filter libnginx-mod-http-xslt-filter libnginx-mod-mail libnginx-mod-stream
  libnginx-mod-stream-geoip2 nginx nginx-common nginx-core
0 upgraded, 9 newly installed, 0 to remove and 5 not upgraded.
Need to get 697 kB of archives.
After this operation, 2,395 kB of additional disk space will be used.
Do you want to continue? [Y/n]
```

3. Systemctl restart nginx
4. Systemctl enable nginx
5. Systemctl status nginx



```
tilak@tilak-virtual-machine:~$ systemctl status nginx
● nginx.service - A high performance web server and a reverse proxy server
   Loaded: loaded (/lib/systemd/system/nginx.service; enabled; vendor preset: enabled)
   Active: active (running) since Sun 2023-07-30 16:40:46 IST; 22min ago
     Docs: man:nginx(8)
   Process: 6122 ExecStartPre=/usr/sbin/nginx -t -q -g daemon on; master_process on; (code=exited, status=0/SUCCESS)
   Process: 6124 ExecStart=/usr/sbin/nginx -g daemon on; master_process on; (code=exited, status=0/SUCCESS)
   Main PID: 6125 (nginx)
    Tasks: 3 (limit: 6251)
   Memory: 3.4M
      CPU: 56ms
   CGroup: /system.slice/nginx.service
           └─6125 "nginx: master process /usr/sbin/nginx -g daemon on; master_process on;"
             └─6126 "nginx: worker process"
               └─6127 "nginx: worker process"

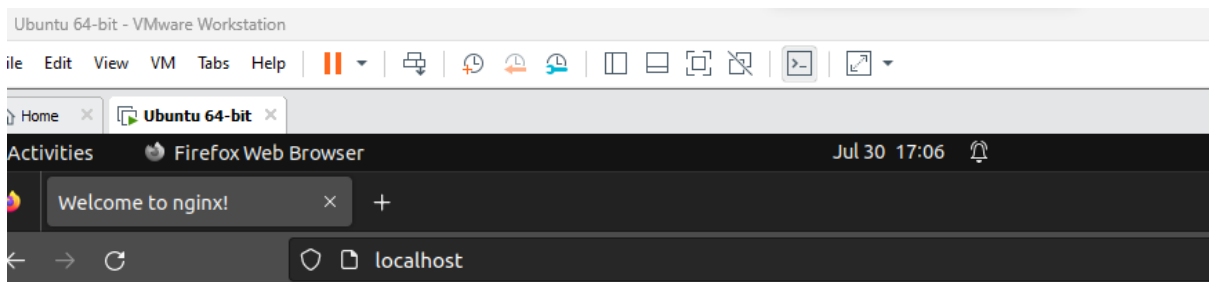
Jul 30 16:40:46 tilak-virtual-machine systemd[1]: Starting A high performance web server and a reverse proxy server...
Jul 30 16:40:46 tilak-virtual-machine systemd[1]: Started A high performance web server and a reverse proxy server.
tilak@tilak-virtual-machine:~$
```

Created new HTML file as html file with body as given below and the file location is:

Path: /var/www/html/index.html

```
root@tilak-virtual-machine: /var/www/html
root@tilak-virtual-machine:/var/www/html# ll
total 12
drwxr-xr-x 2 root root 4096 Jul 30 16:40 ./
drwxr-xr-x 3 root root 4096 Jul 30 16:16 ../
-rw-r--r-- 1 root root 327 Jul 30 16:40 index.html
root@tilak-virtual-machine:/var/www/html# cat index.html
<!DOCTYPE html>
<html>
<head>
<title>Welcome to nginx!</title>
<style>
    body {
        width: 35em;
        margin: 0 auto;
        font-family: Tahoma, Verdana, Arial, sans-serif;
    }
</style>
</head>
<body>
<h1>Welcome to nginx!</h1>
<p> This Program is as part of Herovired assignment done by Tilak</p>
</body>
</html>
root@tilak-virtual-machine:/var/www/html#
```

Tested the webpage is launching



Welcome to nginx!

This Program is as part of Herovired assignment done by Tilak

Now on my local Machine I have used zenmap for scanning the ports

Zenmap

Scan Tools Profile Help

Target: 192.168.253.196 Profile: Intense scan

Command: nmap -T4 -A -v 192.168.253.196

Hosts Services

OS Host

192.168.253.196

Nmap Output Ports / Hosts Topology Host Details Scans

nmap -T4 -A -v 192.168.253.196

Initiating NSE at 16:43
Completed NSE at 16:43, 0.02s elapsed
Initiating NSE at 16:43
Completed NSE at 16:43, 0.00s elapsed
Nmap scan report for 192.168.253.196
Host is up (0.00088s latency).
Not shown: 999 closed tcp ports (reset)
PORT STATE SERVICE VERSION
80/tcp open http nginx 1.18.0 (Ubuntu)
_http-server-header: nginx/1.18.0 (Ubuntu)
_http-title: Welcome to nginx!
_http-methods:
_Supported Methods: GET HEAD
MAC Address: 00:0C:29:8C:AC:3C (VMware)
Device type: general purpose
Running: Linux 4.X|5.X
OS CPE: cpe:/o:linux:linux_kernel:4 cpe:/o:linux:linux_kernel:5
OS details: Linux 4.15 - 5.8
Uptime guess: 1.656 days (since Sat Jul 29 00:59:08 2023)
Network Distance: 1 hop
TCP Sequence Prediction: Difficulty=264 (Good luck!)
IP ID Sequence Generation: All zeros
Service Info: OS: Linux; CPE: cpe:/o:linux:linux_kernel

TRACEROUTE
HOP RTT ADDRESS
1 0.88 ms 192.168.253.196

NSE: Script Post-scanning.
Initiating NSE at 16:43
Completed NSE at 16:43, 0.00s elapsed
Initiating NSE at 16:43
Completed NSE at 16:43, 0.00s elapsed
Initiating NSE at 16:43
Completed NSE at 16:43, 0.00s elapsed
Read data files from: C:\Program Files (x86)\Nmap

Filter Hosts