

### QUESTION 3

Install Oracle VirtualBox on your Windows and perform below task

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

Task 2: Come back to your host machine (windows/Linux/mac) and scan the virtual machine using Nmap.

Task 3: Create the documentation of the process and the output of the scan.

Task 4: Observe the ports which are open.

### SOLUTION :

Step 1 : follow the steps and install VirtualBox

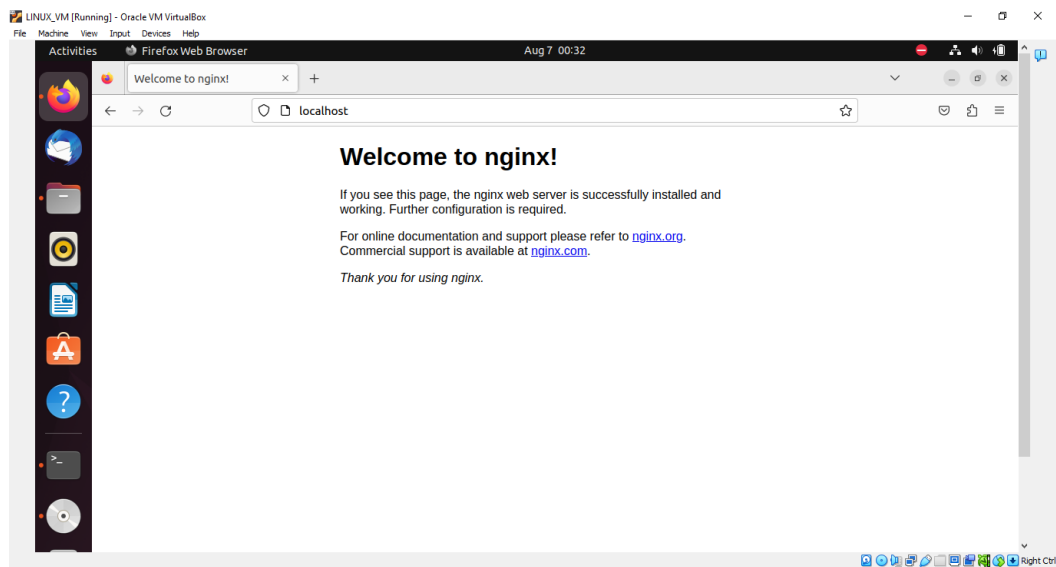
Step 2 : Launch VirtualBox

Step 3 : install nginx.

Step 4: download a free website template.

Step 5 : replace the index.html file folder in directory /var/www/html

Step 6 : Open your web browser and navigate to <http://localhost/>



Step 7 : run nmap of localhost check the ports which are open

Zenmap

Scan Tools Profile Help

Target: localhost Profile: Intense scan

Command: nmap -T4 -A -v localhost

Hosts Services

OS Host

localhost (127.0.0.1)

Nmap Output Ports / Hosts Topology Host Details Scans

nmap -T4 -A -v localhost

```
Starting Nmap 7.94 ( https://nmap.org ) at 2023-08-07 00:28 India Standard Time
NSE: Loaded 156 scripts for scanning.
NSE: Script Pre-scanning.
Initiating NSE at 00:28
Completed NSE at 00:28, 0.00s elapsed
Initiating NSE at 00:28
Completed NSE at 00:28, 0.00s elapsed
Initiating NSE at 00:28
Completed NSE at 00:28, 0.00s elapsed
Initiating SYN Stealth Scan at 00:28
Scanning localhost (127.0.0.1) [1000 ports]
Discovered open port 135/tcp on 127.0.0.1
Discovered open port 445/tcp on 127.0.0.1
Discovered open port 5357/tcp on 127.0.0.1
Discovered open port 7070/tcp on 127.0.0.1
Completed SYN Stealth Scan at 00:28, 0.08s elapsed (1000 total ports)
Initiating Service scan at 00:28
Scanning 4 services on localhost (127.0.0.1)
Completed Service scan at 00:28, 11.11s elapsed (4 services on 1 host)
Initiating OS detection (try #1) against localhost (127.0.0.1)
NSE: Script scanning 127.0.0.1.
Initiating NSE at 00:28
Completed NSE at 00:28, 14.18s elapsed
Initiating NSE at 00:28
Completed NSE at 00:28, 0.16s elapsed
Initiating NSE at 00:28
Completed NSE at 00:28, 0.00s elapsed
Nmap scan report for localhost (127.0.0.1)
Host is up (0.00038s latency).
Other addresses for localhost (not scanned): ::1
Not shown: 996 closed tcp ports (reset)
PORT      STATE SERVICE          VERSION
135/tcp    open  msrpc            Microsoft Windows RPC
445/tcp    open  microsoft-ds?
5357/tcp   open  http             Microsoft HTTPAPI httpd 2.0 (SSDP/UPnP)
| http-title: Service Unavailable
```

Filter Hosts