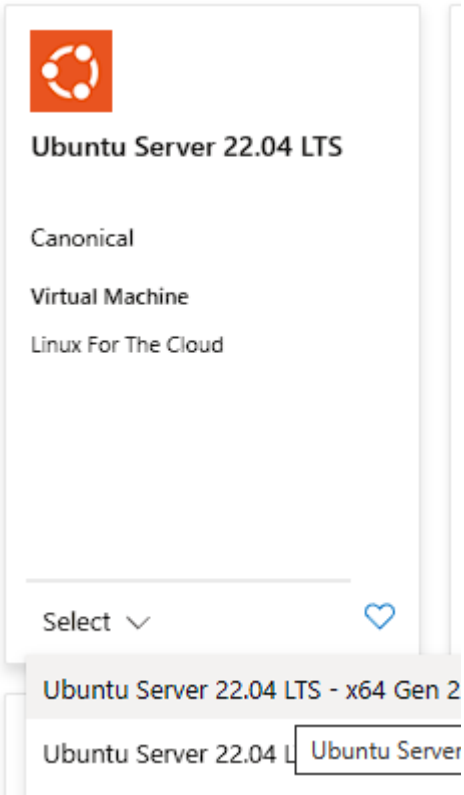
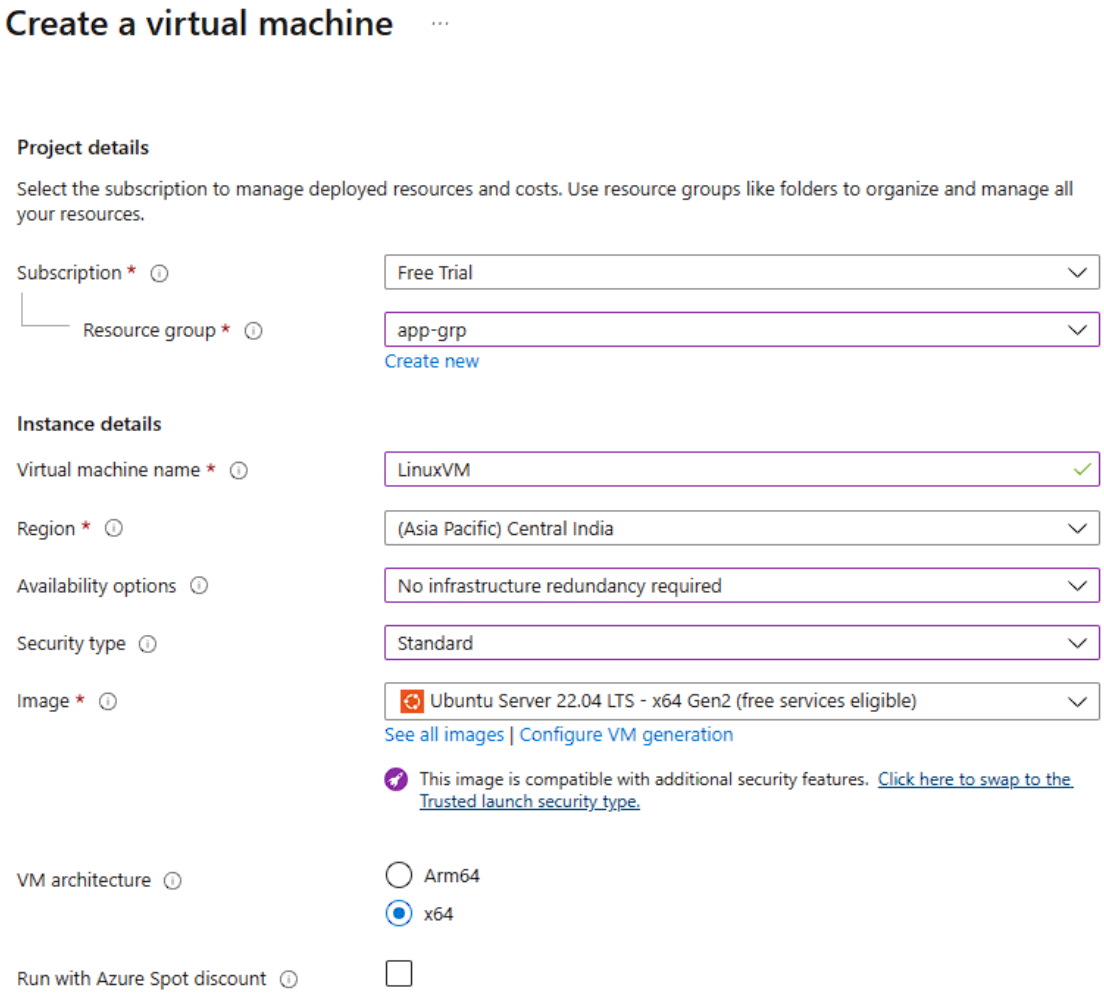
AZURE LAB 2 (Linux VM)

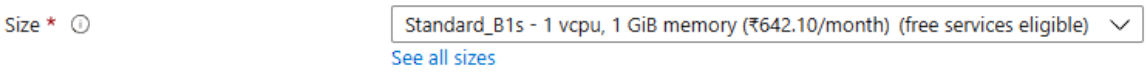
In this lab you will learn, how to create a Linux virtual machine.

1. So, the starting steps are same as the previous lab.
2. Open Azure Portal, on the homepage click on create resource, then select virtual machine.
3. On the create virtual machine page, select your resource group or you can create a new one.
4. Then give your virtual machine a name, select your region, then for the availability options and security type choose the same option as below in the image.
5. Now for the image, click on see all images, there you'll see Ubuntu Server 22.04 LTS, select it.

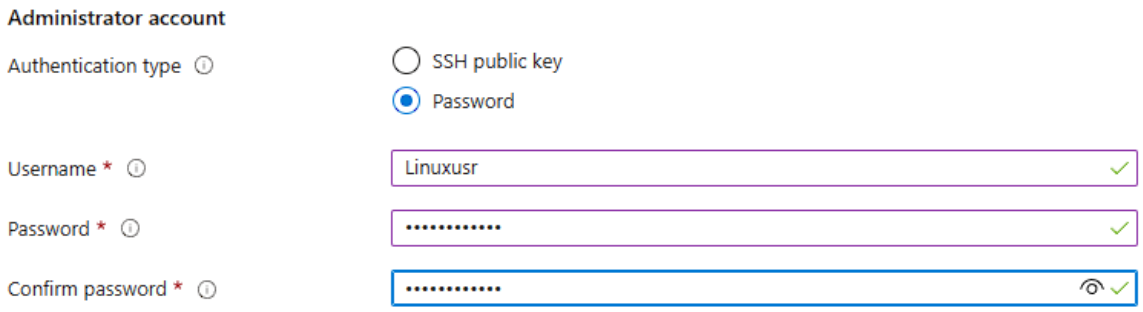




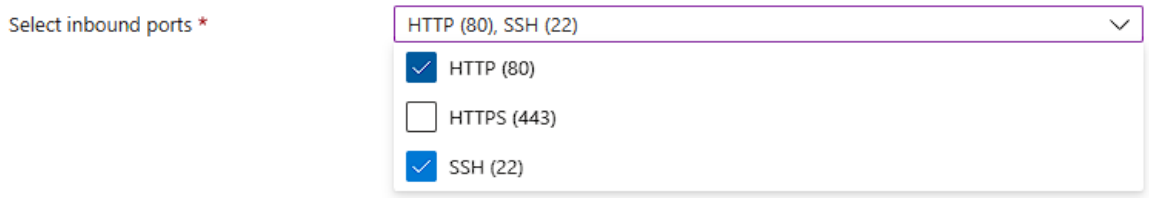
6. The size for the server should be B1s, because this one is eligible for free tier.



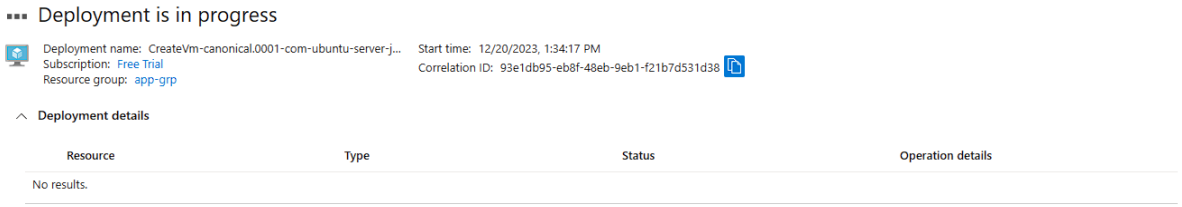
7. Now in the administrator account select authentication type as Password, give a username and password to it.



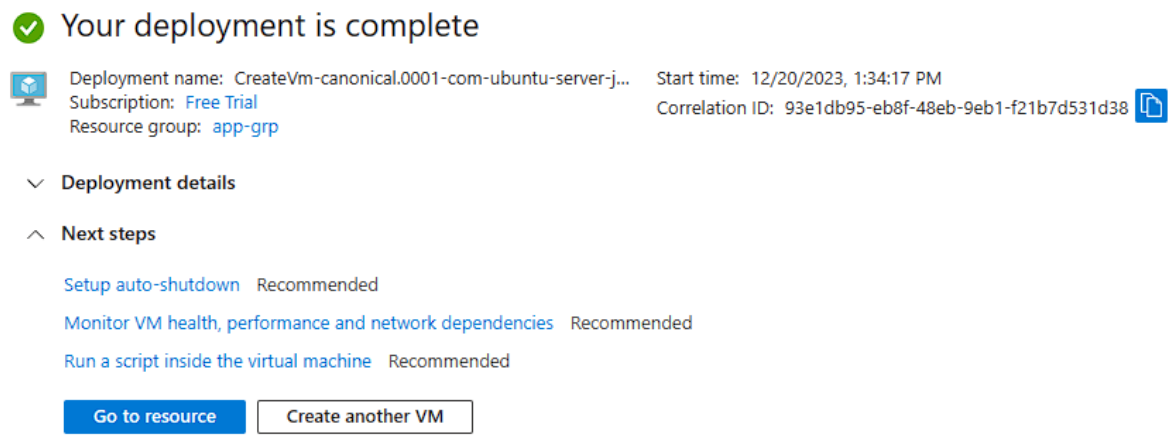
8. In the inbound ports, select HTTP (80), this will help us in setting up the web server.



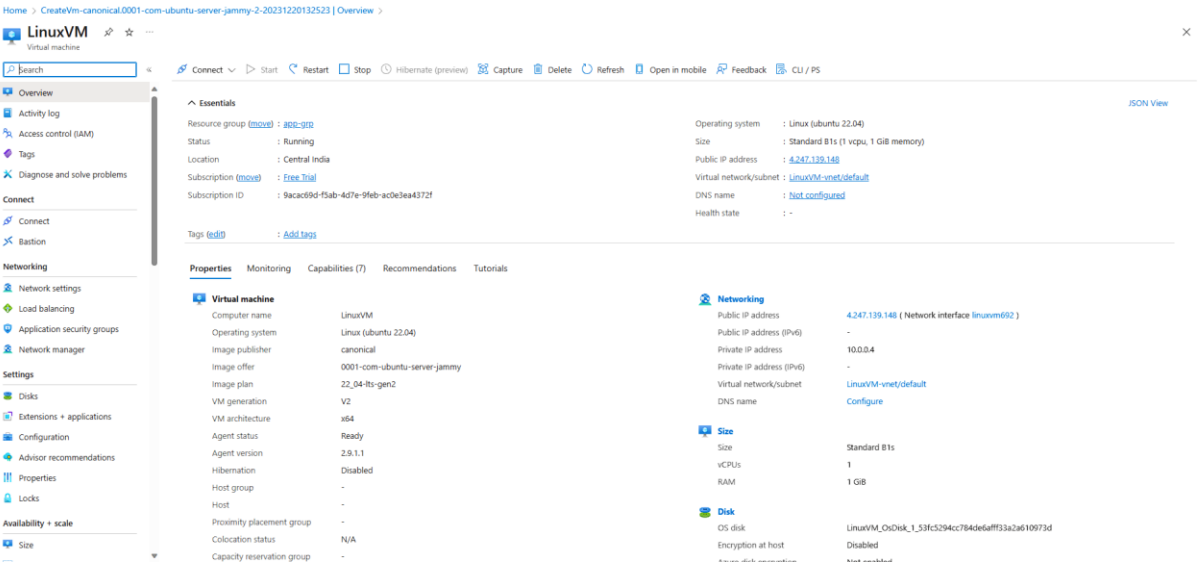
9. After all these steps are complete, go to review and create page. There just create your server.
10. Deployment might take some time.



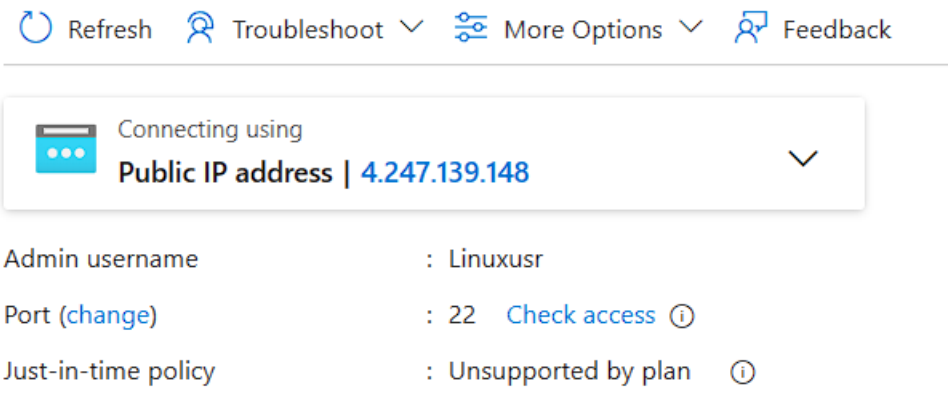
11. Once the deployment is complete, click on Go to resources.



12. So, on the resource page you can see every information regarding your Linux server.



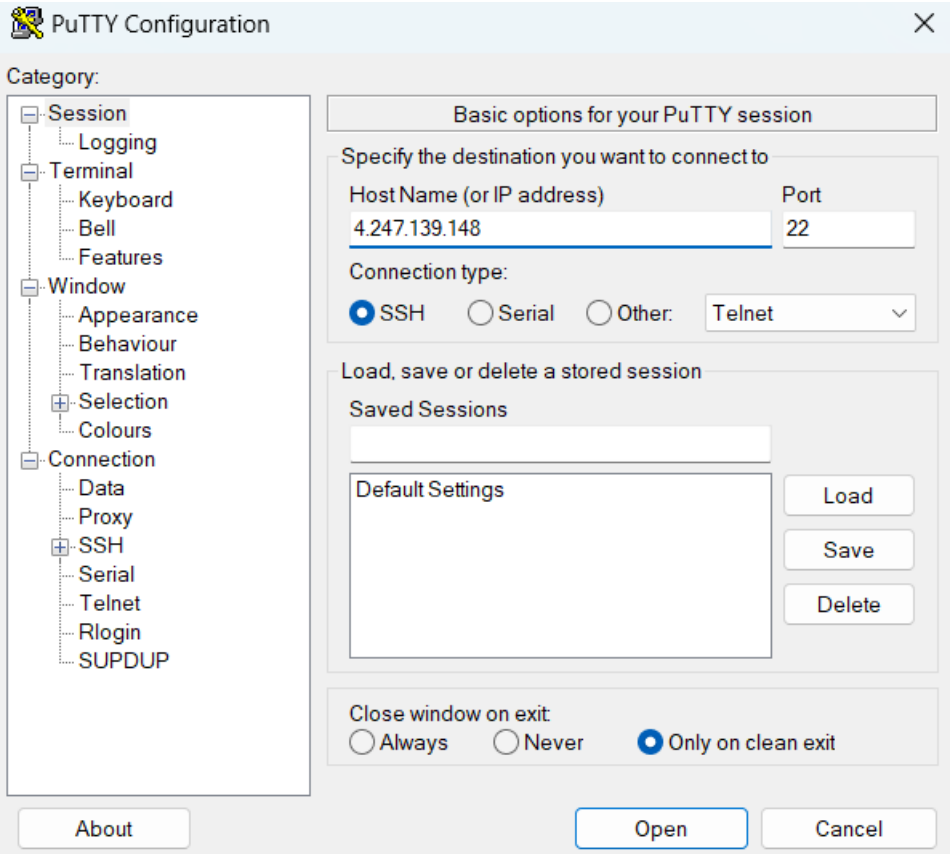
13. Here you need to click on connect and copy the public IP address.



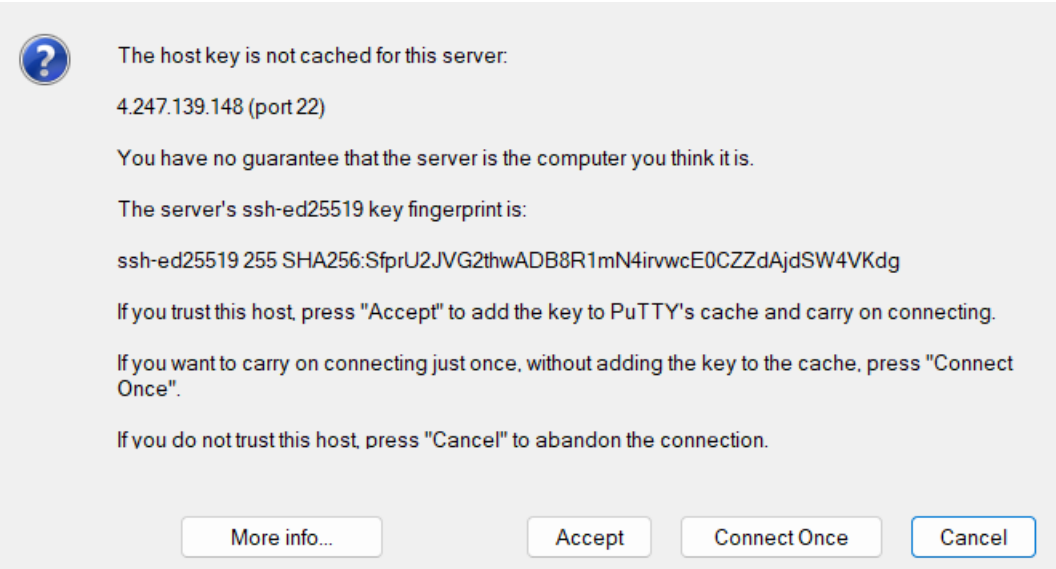
NOTE: TO CONNECT YOUR LINUX SERVER USE PUTTY. YOU CAN DOWNLOAD PUTTY FROM THIS LINK.

https://www.putty.org/

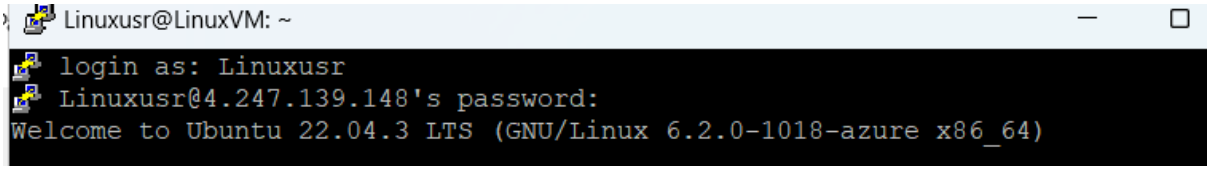
14. Now you need to open Putty, there you just need to paste your IP address. Then click on Open.



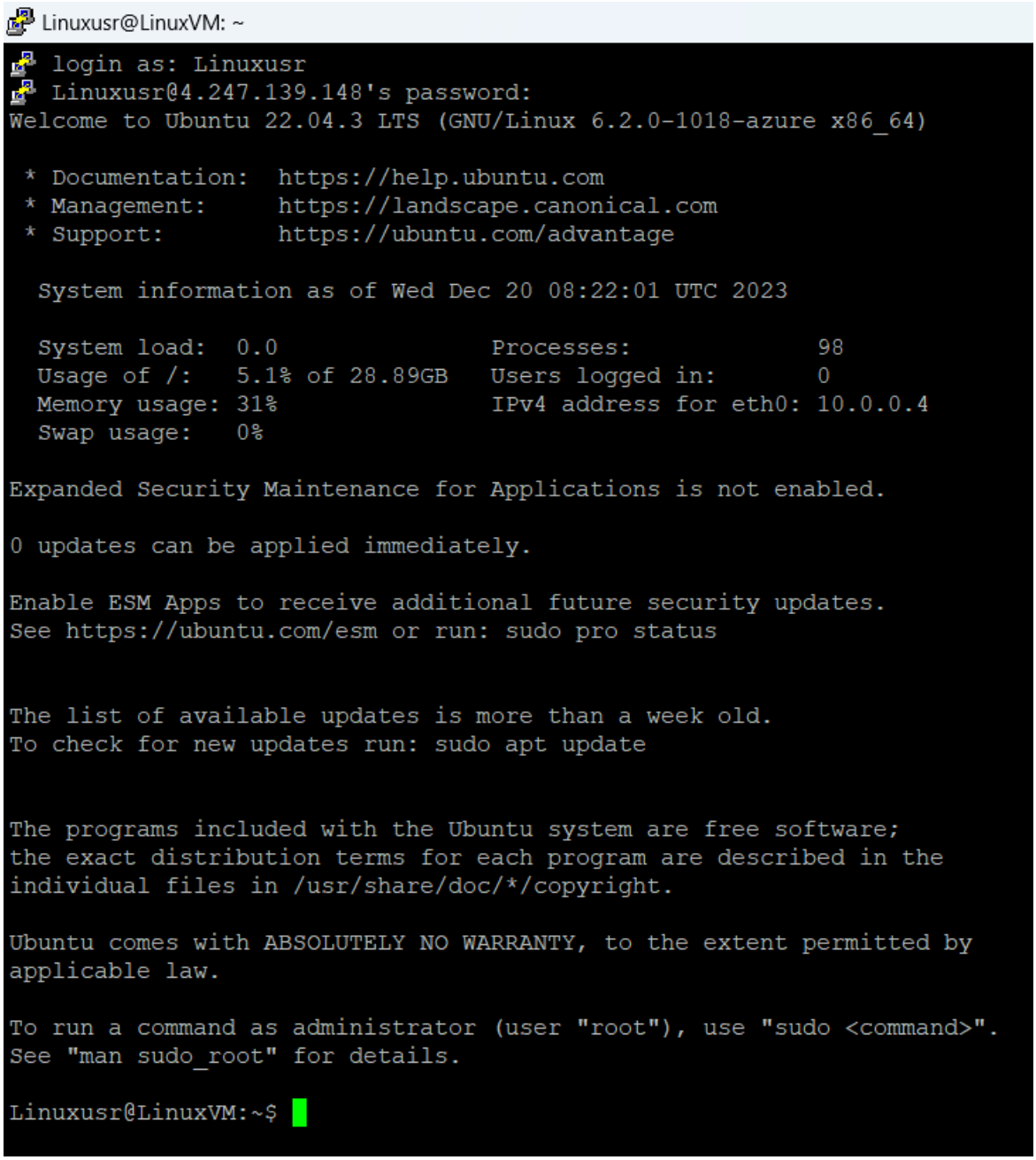
15. This is asking for your permission, click on Accept.



16. After that, you must log in to your server by entering the username and password you created while setting up the Linux server.



17. This is how Linux server looks like in Putty.



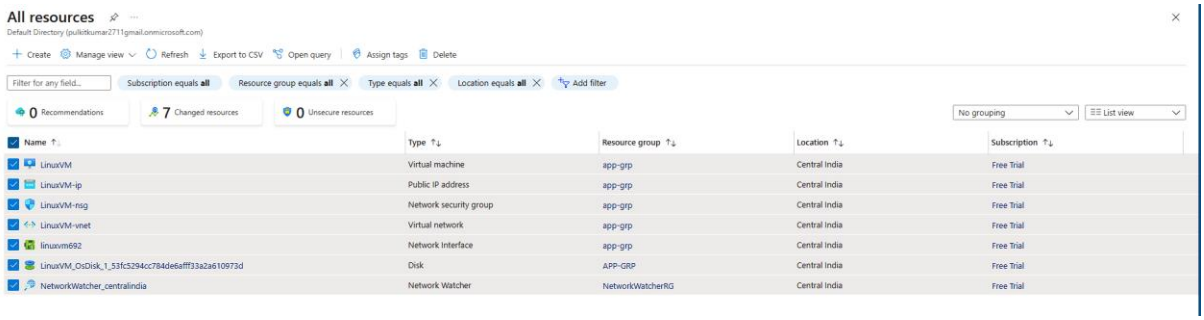
18. After successfully logging into the Linux server, you need to run some commands on it and set up the web server role on it.
    sudo apt-get update
    sudo apt-get install nginx

```
Linuxusr@LinuxVM:~$ sudo apt-get update
Hit:1 http://azure.archive.ubuntu.com/ubuntu jammy InRelease
Get:2 http://azure.archive.ubuntu.com/ubuntu jammy-updates InRelease [119 kB]
Get:3 http://azure.archive.ubuntu.com/ubuntu jammy-backports InRelease [109 kB]
Get:4 http://azure.archive.ubuntu.com/ubuntu jammy-security InRelease [110 kB]
Get:5 http://azure.archive.ubuntu.com/ubuntu jammy/universe amd64 Packages [14.1 MB]
Get:6 http://azure.archive.ubuntu.com/ubuntu jammy/universe Translation-en [5652 kB]
Get:7 http://azure.archive.ubuntu.com/ubuntu jammy/universe amd64 c-n-f Metadata [286 kB]
Get:8 http://azure.archive.ubuntu.com/ubuntu jammy/multiverse amd64 Packages [217 kB]
Get:9 http://azure.archive.ubuntu.com/ubuntu jammy/multiverse Translation-en [112 kB]
Get:10 http://azure.archive.ubuntu.com/ubuntu jammy/multiverse amd64 c-n-f Metadata [8372 B]
Get:11 http://azure.archive.ubuntu.com/ubuntu jammy-updates/main amd64 Packages [1263 kB]
Get:12 http://azure.archive.ubuntu.com/ubuntu jammy-updates/main Translation-en [260 kB]
Get:13 http://azure.archive.ubuntu.com/ubuntu jammy-updates/restricted amd64 Packages [1250 kB]
Get:14 http://azure.archive.ubuntu.com/ubuntu jammy-updates/restricted Translation-en [203 kB]
Get:15 http://azure.archive.ubuntu.com/ubuntu jammy-updates/universe amd64 Packages [1020 kB]
Get:16 http://azure.archive.ubuntu.com/ubuntu jammy-updates/universe Translation-en [226 kB]
Get:17 http://azure.archive.ubuntu.com/ubuntu jammy-updates/universe amd64 c-n-f Metadata [22.1 kB]
Get:18 http://azure.archive.ubuntu.com/ubuntu jammy-updates/multiverse amd64 Packages [41.6 kB]
Get:19 http://azure.archive.ubuntu.com/ubuntu jammy-updates/multiverse Translation-en [9768 B]
Get:20 http://azure.archive.ubuntu.com/ubuntu jammy-updates/multiverse amd64 c-n-f Metadata [472 B]
Get:21 http://azure.archive.ubuntu.com/ubuntu jammy-backports/main amd64 Packages [41.7 kB]
Get:22 http://azure.archive.ubuntu.com/ubuntu jammy-backports/main Translation-en [10.5 kB]
Get:23 http://azure.archive.ubuntu.com/ubuntu jammy-backports/main amd64 c-n-f Metadata [388 B]
Get:24 http://azure.archive.ubuntu.com/ubuntu jammy-backports/restricted amd64 c-n-f Metadata [116 B]
Get:25 http://azure.archive.ubuntu.com/ubuntu jammy-backports/universe amd64 Packages [24.3 kB]
Get:26 http://azure.archive.ubuntu.com/ubuntu jammy-backports/universe Translation-en [16.5 kB]
Get:27 http://azure.archive.ubuntu.com/ubuntu jammy-backports/universe amd64 c-n-f Metadata [644 B]
Get:28 http://azure.archive.ubuntu.com/ubuntu jammy-backports/multiverse amd64 c-n-f Metadata [116 B]
Get:29 http://azure.archive.ubuntu.com/ubuntu jammy-security/main amd64 Packages [1051 kB]
Get:30 http://azure.archive.ubuntu.com/ubuntu jammy-security/main Translation-en [200 kB]
Get:31 http://azure.archive.ubuntu.com/ubuntu jammy-security/restricted amd64 Packages [1226 kB]
Get:32 http://azure.archive.ubuntu.com/ubuntu jammy-security/restricted Translation-en [200 kB]
Get:33 http://azure.archive.ubuntu.com/ubuntu jammy-security/universe amd64 Packages [823 kB]
Get:34 http://azure.archive.ubuntu.com/ubuntu jammy-security/universe Translation-en [156 kB]
Get:35 http://azure.archive.ubuntu.com/ubuntu jammy-security/universe amd64 c-n-f Metadata [16.8 kB]
Get:36 http://azure.archive.ubuntu.com/ubuntu jammy-security/multiverse amd64 Packages [36.5 kB]
Get:37 http://azure.archive.ubuntu.com/ubuntu jammy-security/multiverse Translation-en [7060 B]
Get:38 http://azure.archive.ubuntu.com/ubuntu jammy-security/multiverse amd64 c-n-f Metadata [260 B]
Fetched 28.8 MB in 5s (5960 kB/s)
Reading package lists... Done
Linuxusr@LinuxVM:~$
```

19. After running both of the commands, you need to go to the portal and copy your public IP address, then paste it in a new tab.
20. You'll see this welcome message from nginx, which means that web server is successfully installed and working.

NOTE: THE DELETION PROCESS IS THE SAME AS THE PREVIOUS LAB. CLICK ON HAMBURGER ICON ON THE TOP LEFT CORNER AND NAVIGATE TO ALL RESOURCES.

THERE SELECT ALL RESOURCES AND DELETE THOSE.


All resources
Default Directory (pulkitkumar2711gmail.onmicrosoft.com)
Create
Manage view
Refresh
Export to CSV
Open query
Assign tags
Delete
Filter for any field...
Subscription equals all
Resource group equals all
Type equals all
Location equals all
Add filter
0 Recommendations
7 Changed resources
0 Unsecure resources
No grouping
List view
Name
Type
Resource group
Location
Subscription
LinuxVM
Virtual machine
app-grp
Central India
Free Trial
LinuxVM-ip
Public IP address
app-grp
Central India
Free Trial
LinuxVM-nsg
Network security group
app-grp
Central India
Free Trial
LinuxVM-vnet
Virtual network
app-grp
Central India
Free Trial
linuxvm692
Network Interface
app-grp
Central India
Free Trial
LinuxVM_OsDisk_1_53fc5294cc784de6afff33a2a610973d
Disk
APP-GRP
Central India
Free Trial
NetworkWatcher_centralindia
Network Watcher
NetworkWatcherRG
Central India
Free Trial