Name: Swapnadeep Mishra

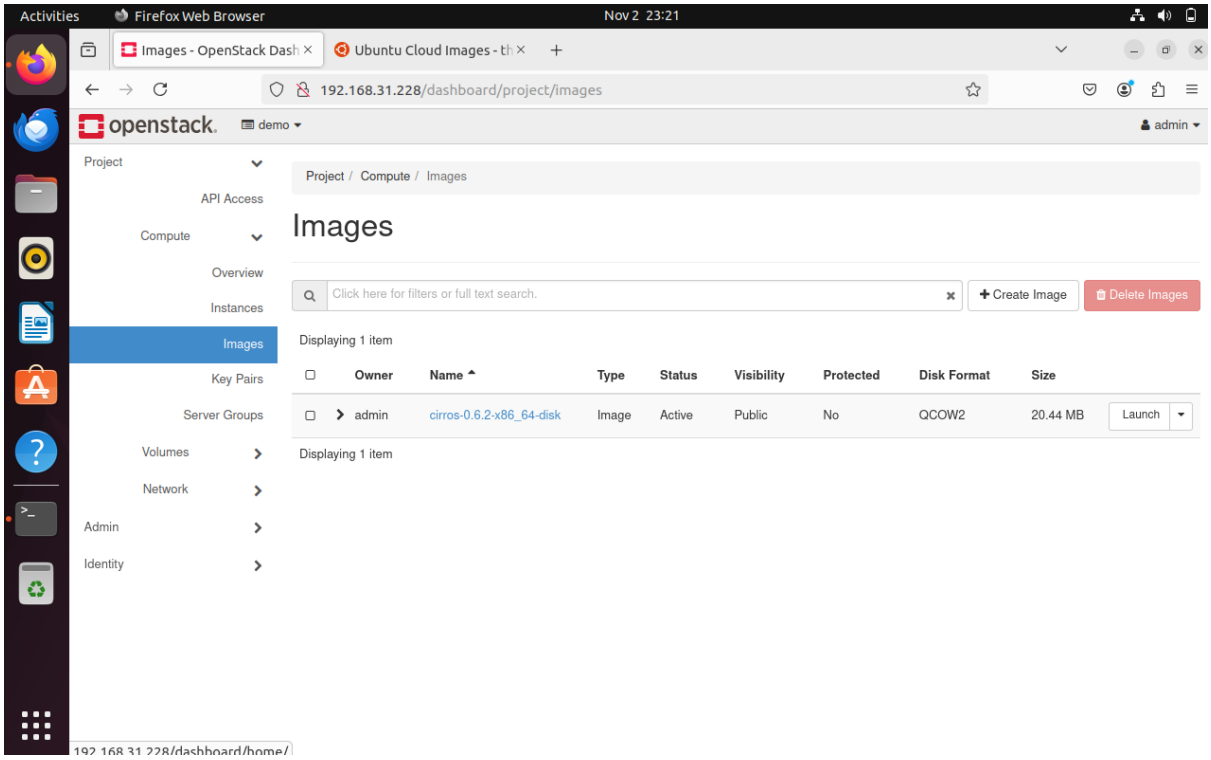
CLOUD LAB

Assignment – 5

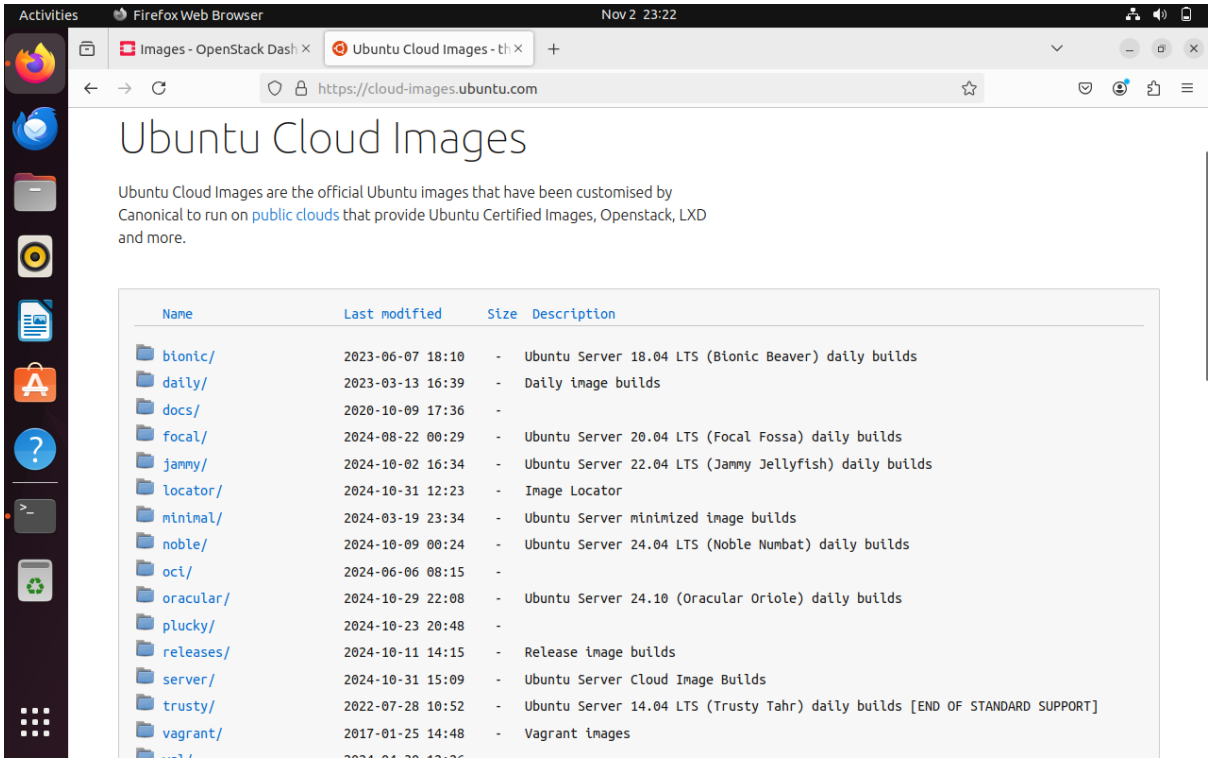
Group -A3

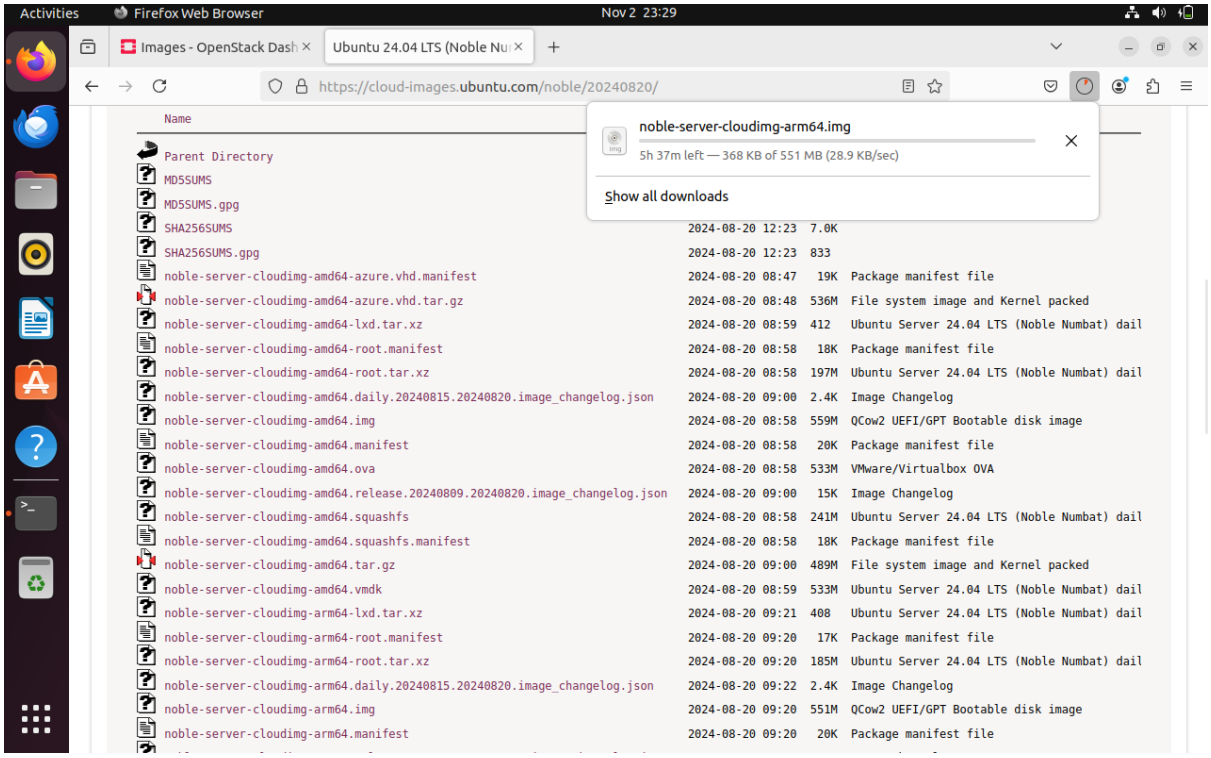
Roll No- 002211001115

At first we open the openstack dashboard and login into it.

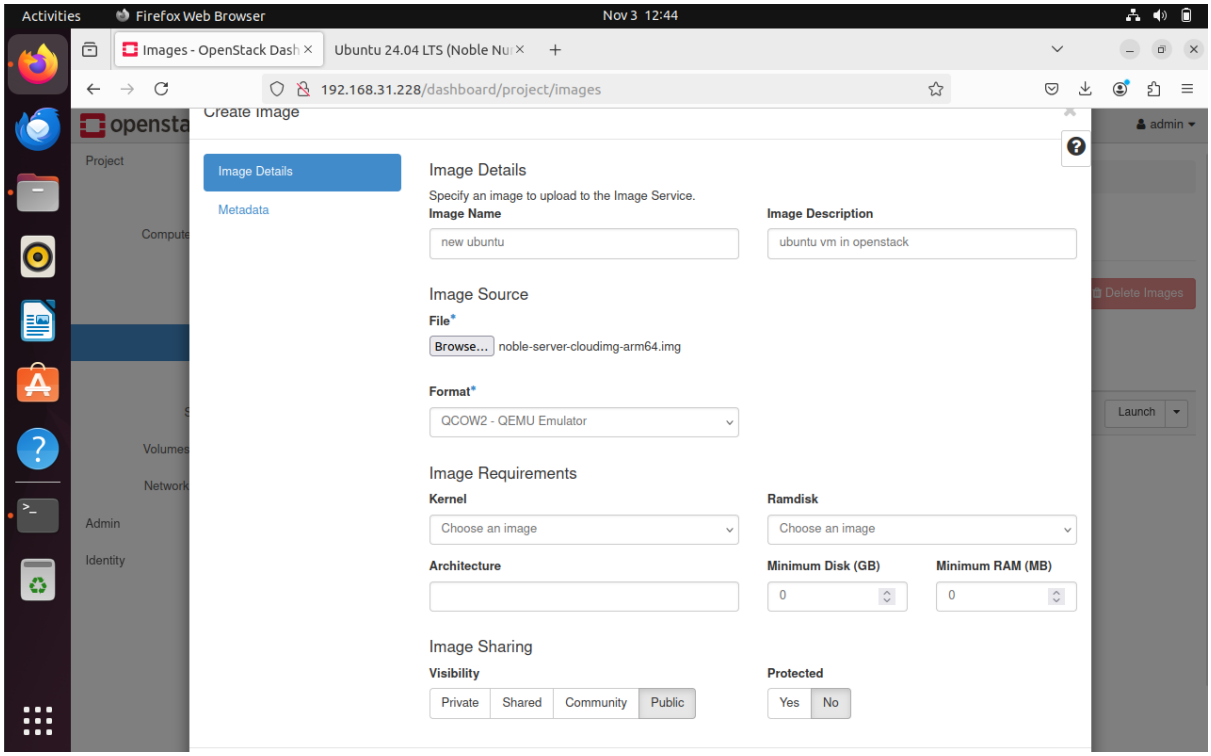


Then we open the website cloud-images.ubuntu.com and download a image from /noble directory and downloaded cloudimg.arm64.img.

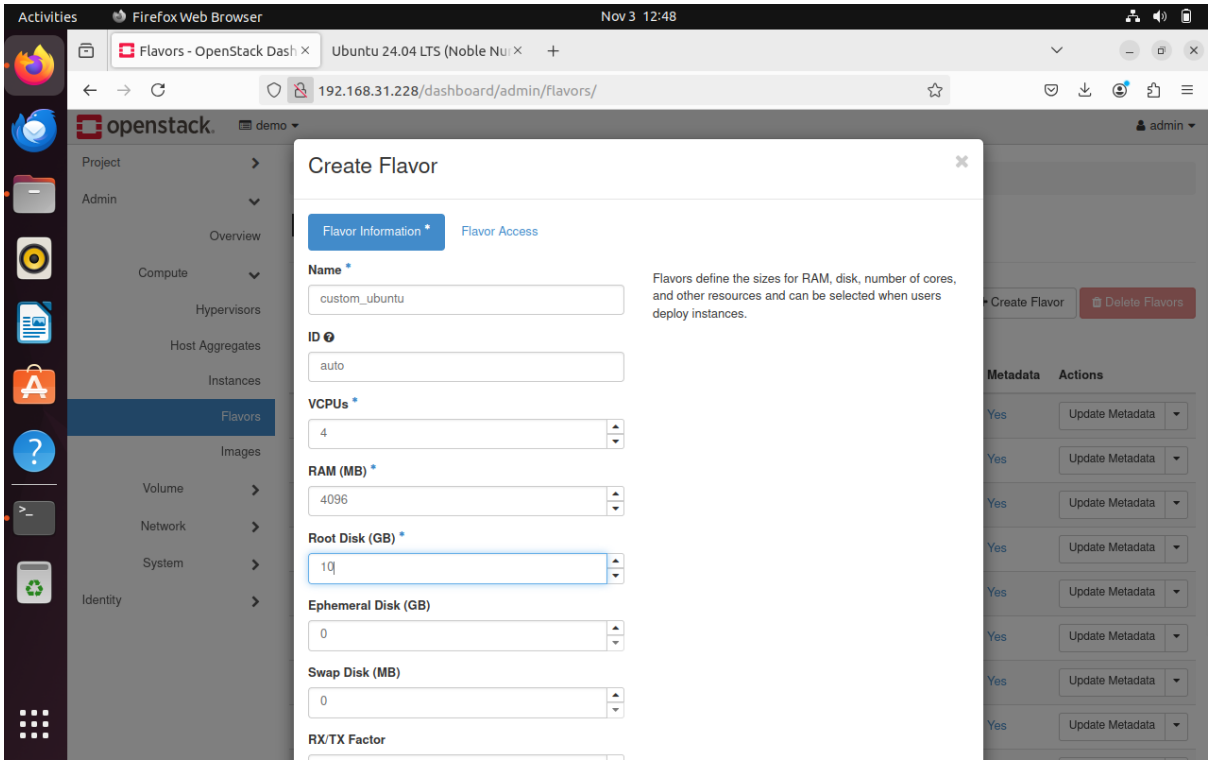




Then we go to create an image and put the downloaded image into it.

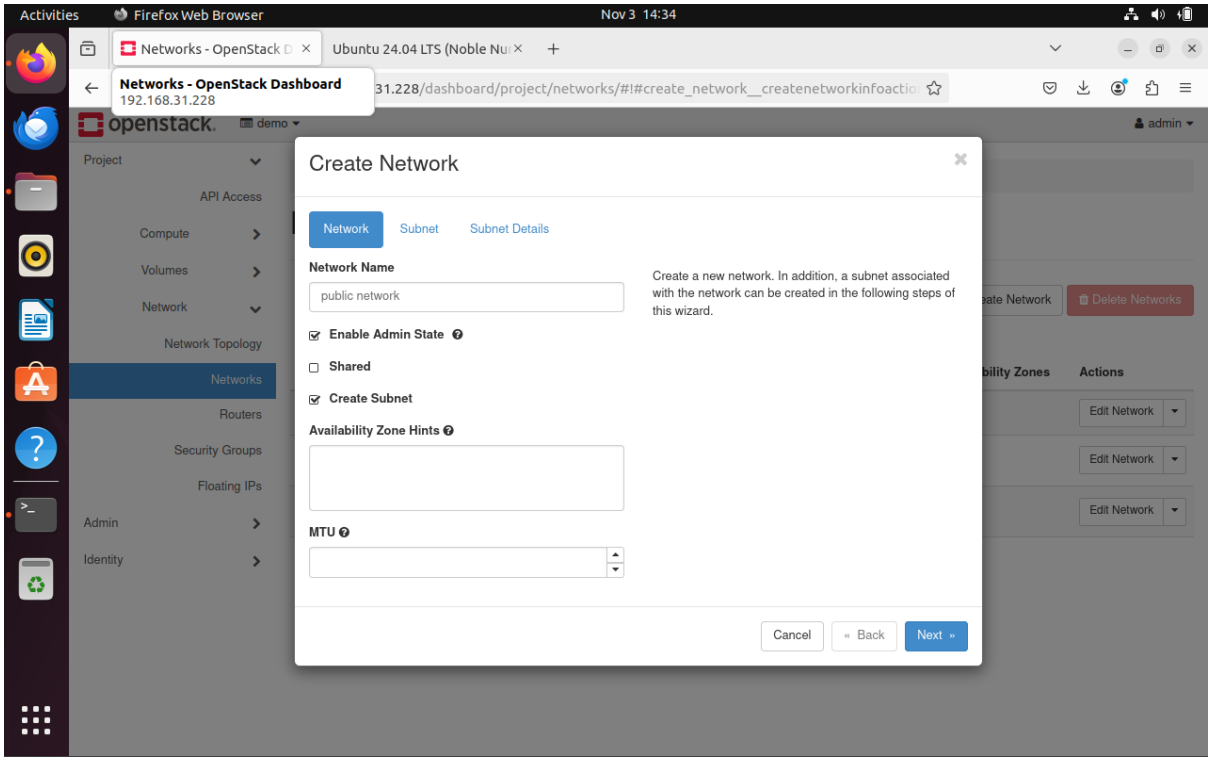


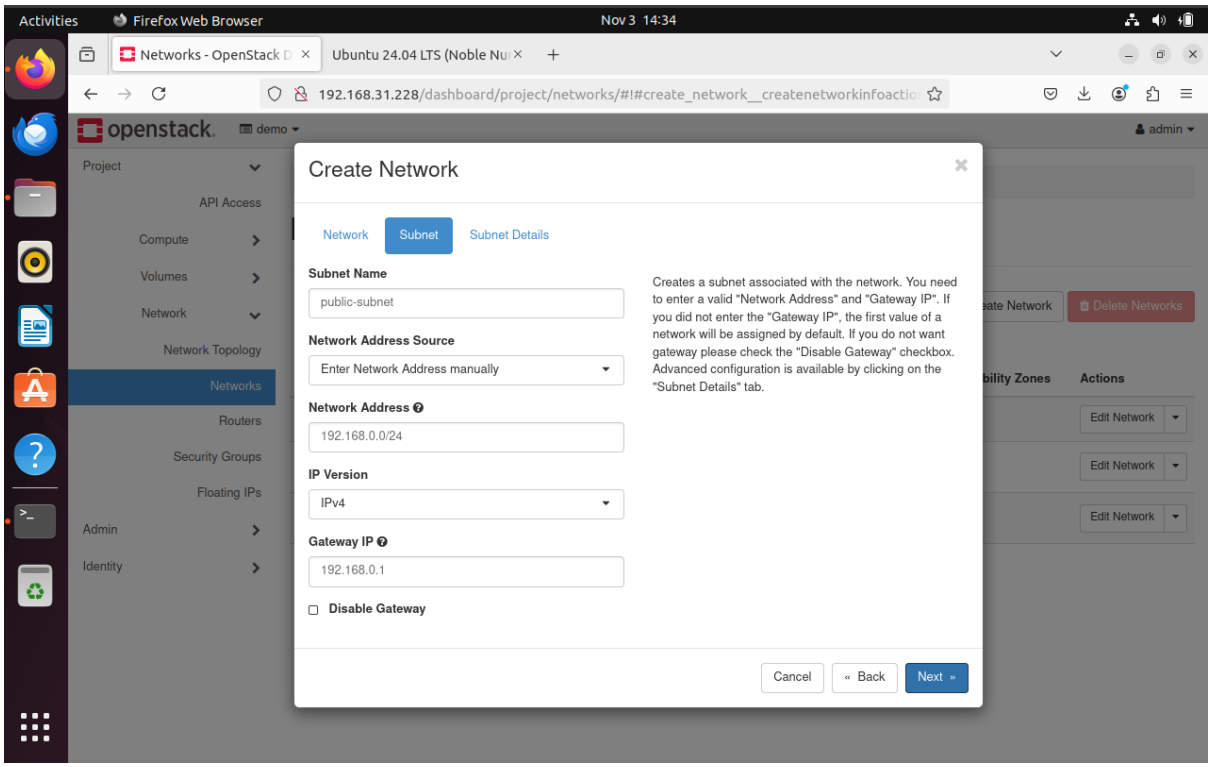
After that , we created a flavor to the image by giving a cpu size of 4 and Root Disk size as 10 Gb.

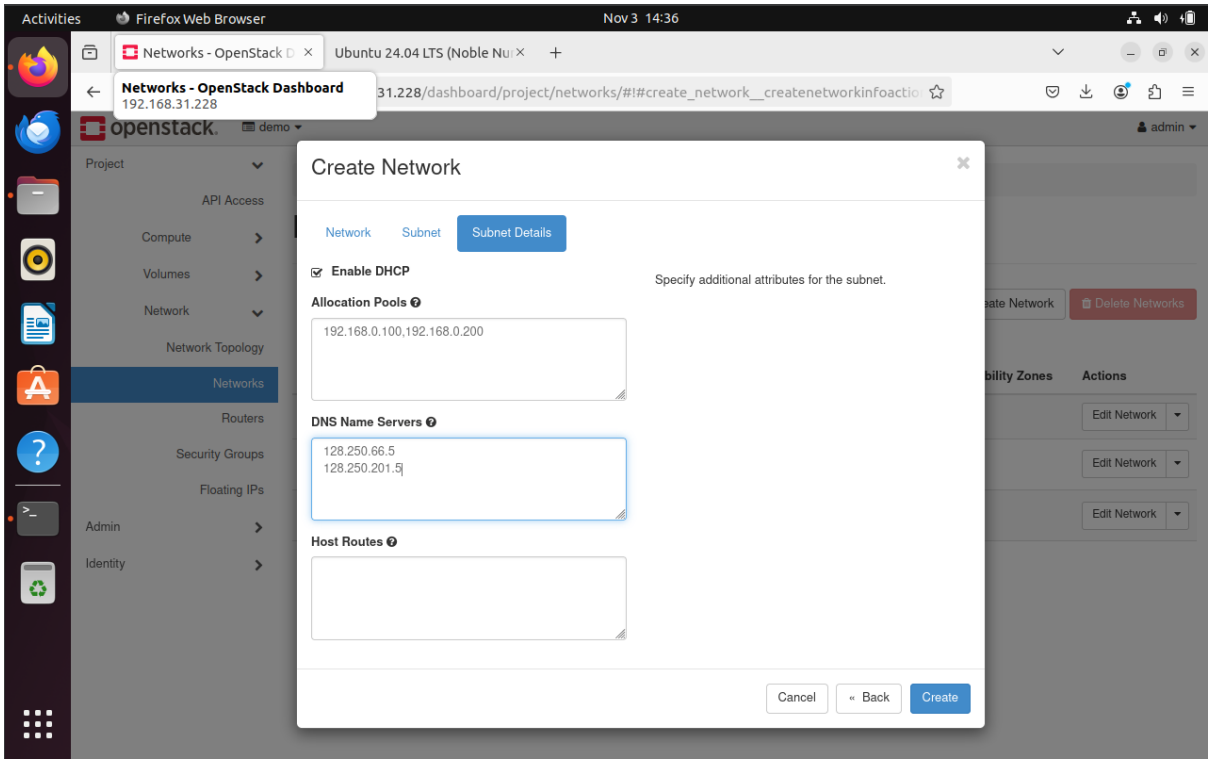


Then we continue to create networks.

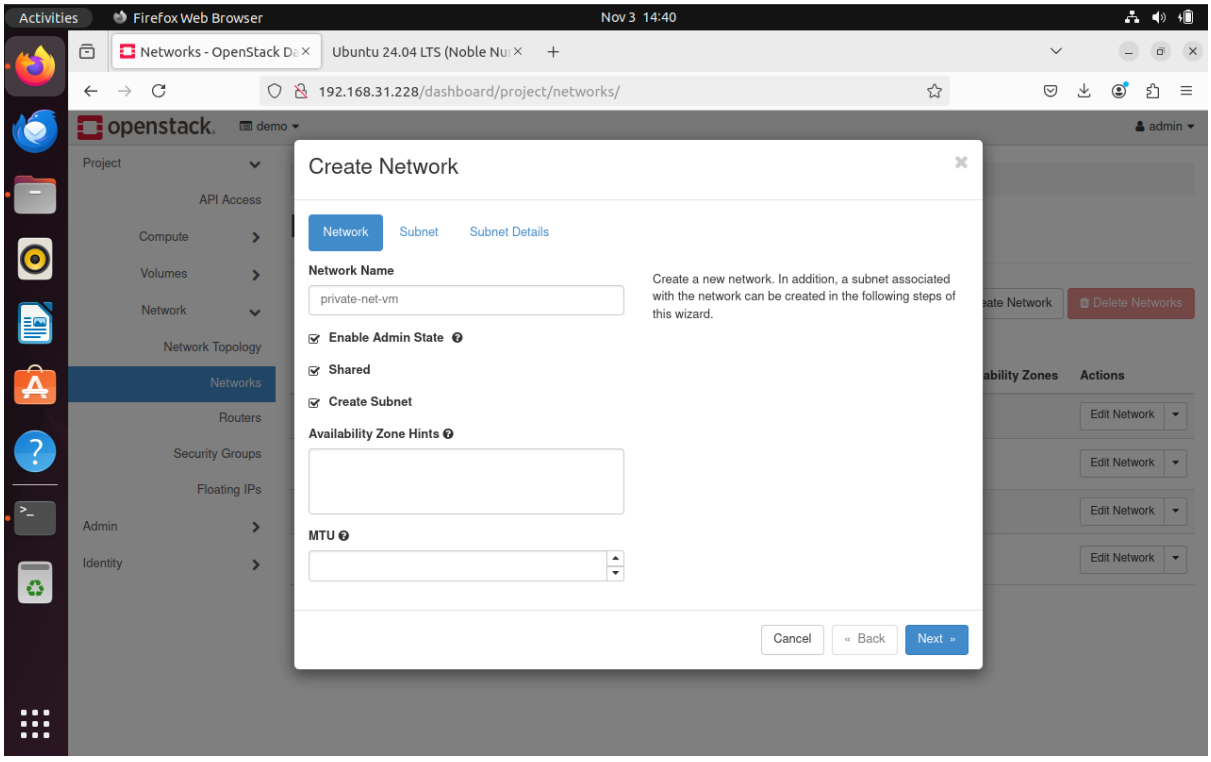
Public Network:

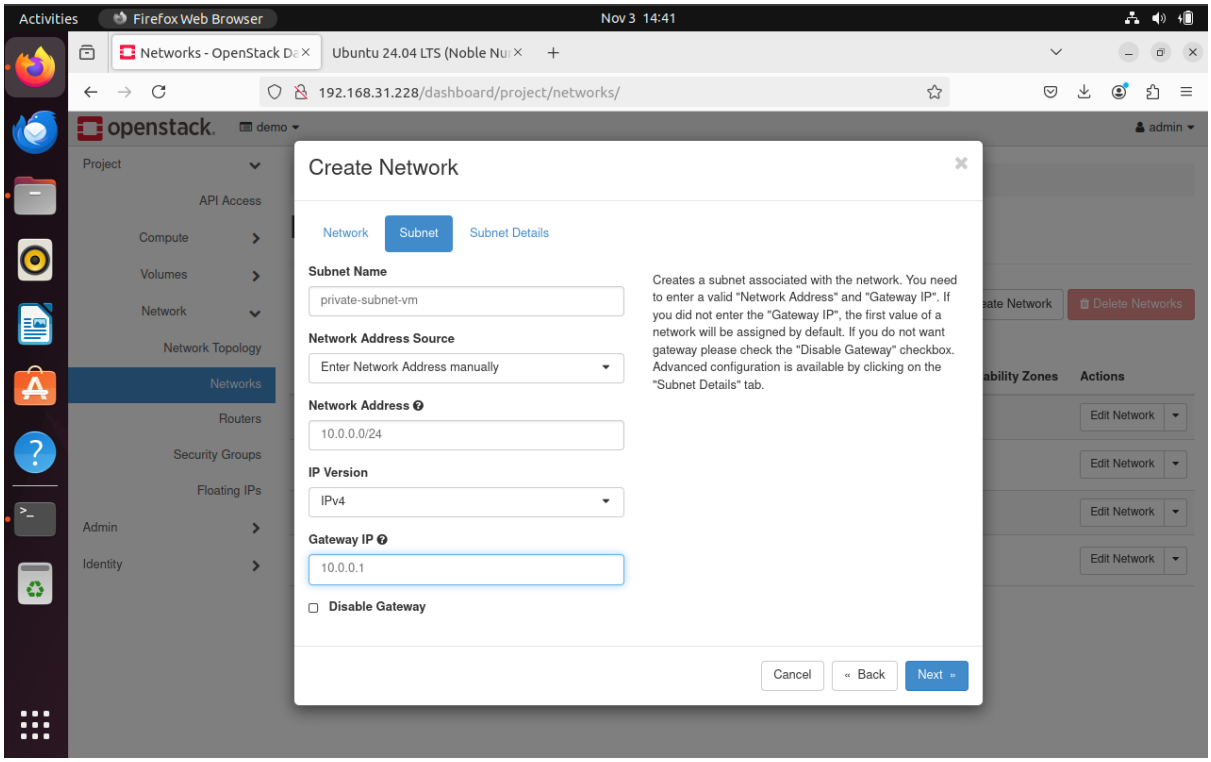

Activities
Firefox Web Browser
Nov 3 14:34
Networks - OpenStack D
Ubuntu 24.04 LTS (Noble Nu
Networks - OpenStack Dashboard
192.168.31.228
31.228/dashboard/project/networks/#!#create_network__createnetworkinfoactio
openstack.
demo
admin
Project
API Access
Compute
Volumes
Network
Network Topology
Networks
Routers
Security Groups
Floating IPs
Admin
Identity
Create Network
Network
Subnet
Subnet Details
Network Name
public network
Enable Admin State
Shared
Create Subnet
Availability Zone Hints
MTU
Create a new network. In addition, a subnet associated with the network can be created in the following steps of this wizard.
Cancel
« Back
Next »
Edit Network
Actions


Activities
Firefox Web Browser
Nov 3 14:34
Networks - OpenStack D
Ubuntu 24.04 LTS (Noble Nu
192.168.31.228/dashboard/project/networks/#!#create_network__createnetworkinfoactio
openstack.
demo
admin
Project
API Access
Compute
Volumes
Network
Network Topology
Networks
Routers
Security Groups
Floating IPs
Admin
Identity
Create Network
Network
Subnet
Subnet Details
Subnet Name
public-subnet
Network Address Source
Enter Network Address manually
Network Address
192.168.0.0/24
IP Version
IPv4
Gateway IP
192.168.0.1
Disable Gateway
Creates a subnet associated with the network. You need to enter a valid "Network Address" and "Gateway IP". If you did not enter the "Gateway IP", the first value of a network will be assigned by default. If you do not want gateway please check the "Disable Gateway" checkbox. Advanced configuration is available by clicking on the "Subnet Details" tab.
Cancel
« Back
Next »
Edit Network
Actions

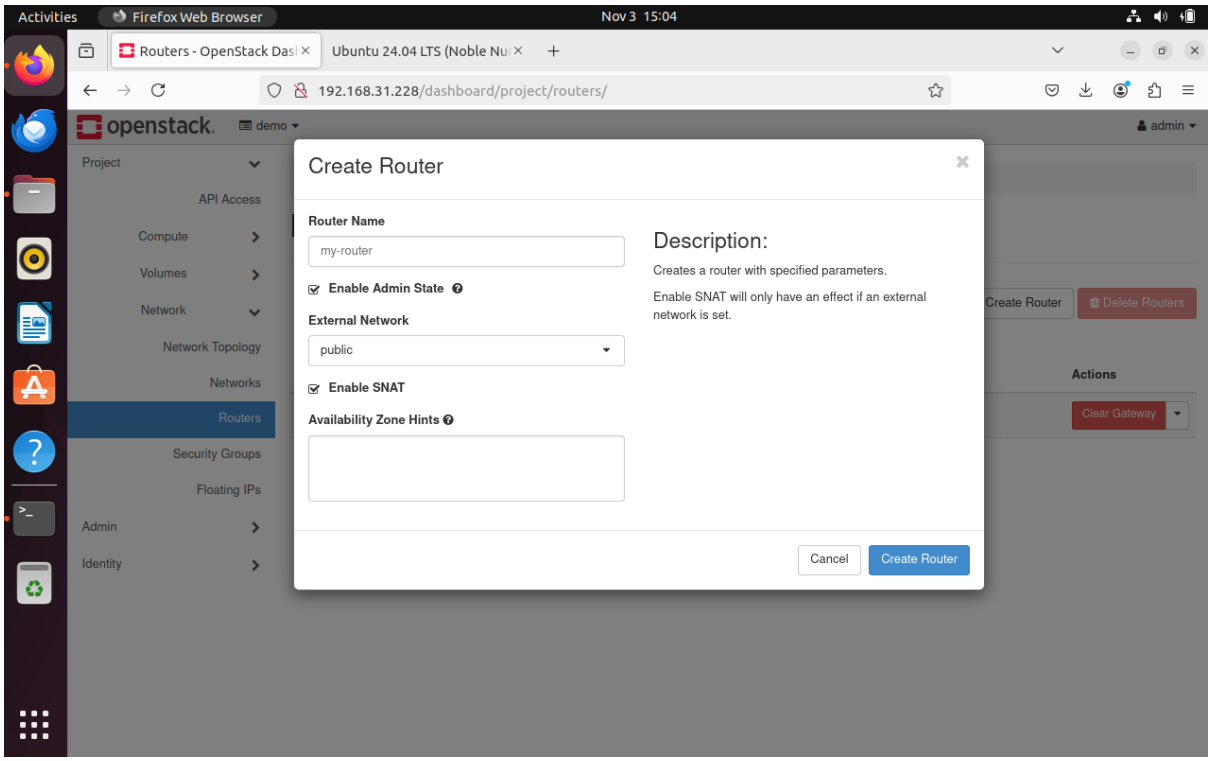


Private network:

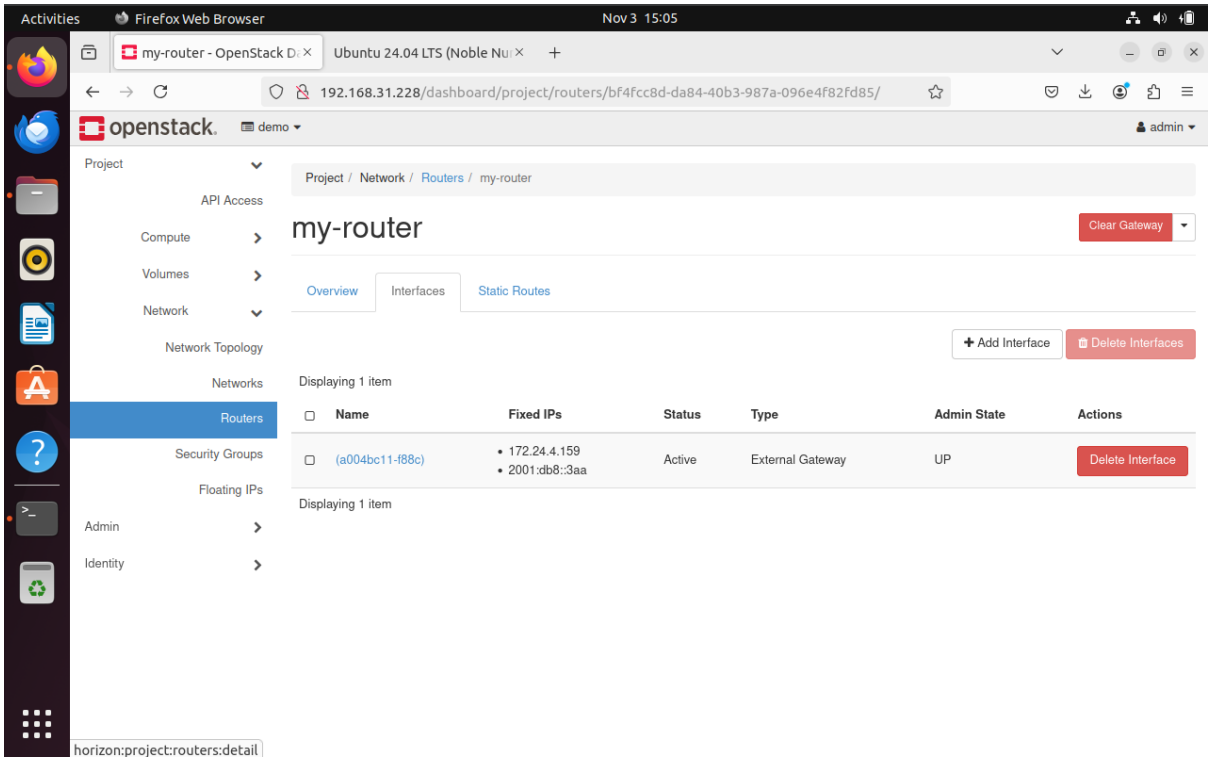


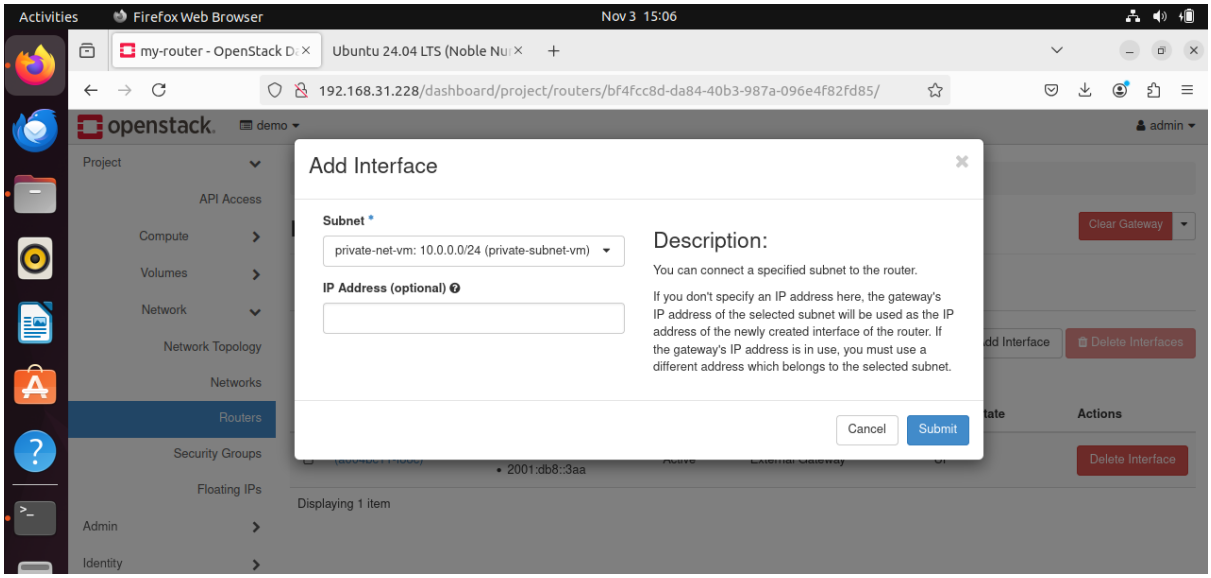


After creating networks er created a router.

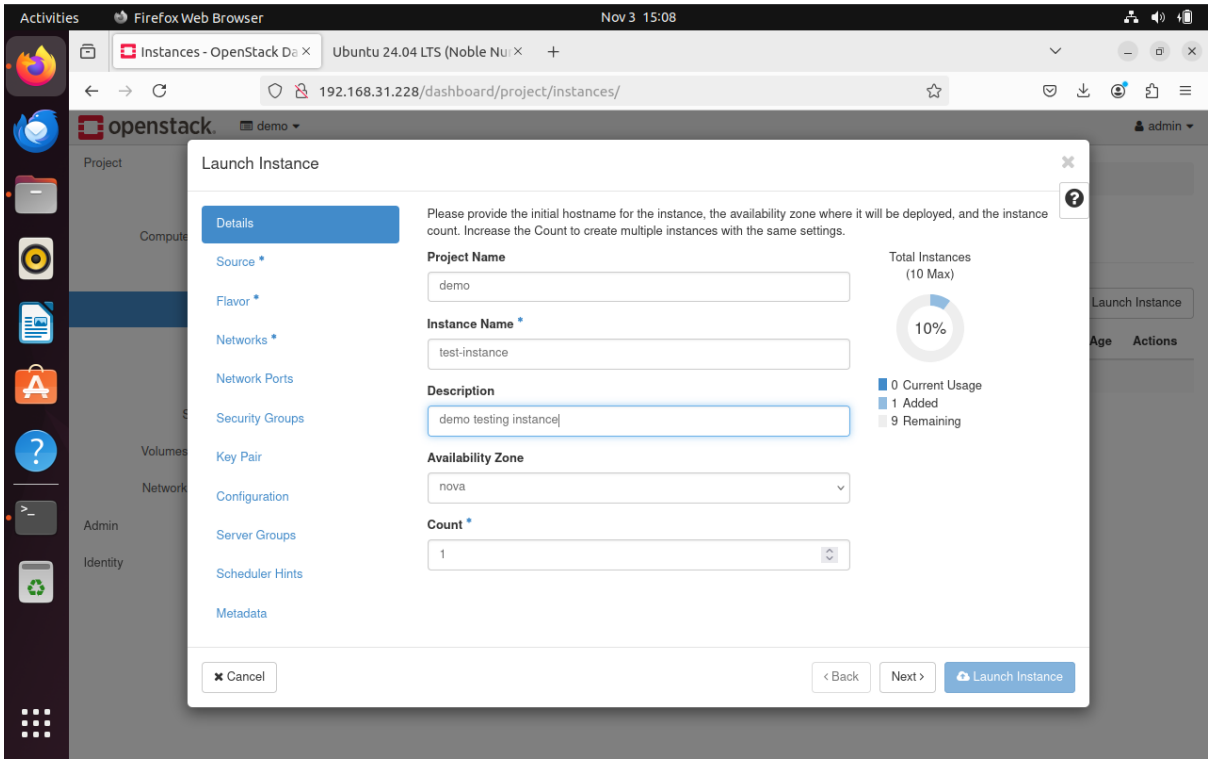


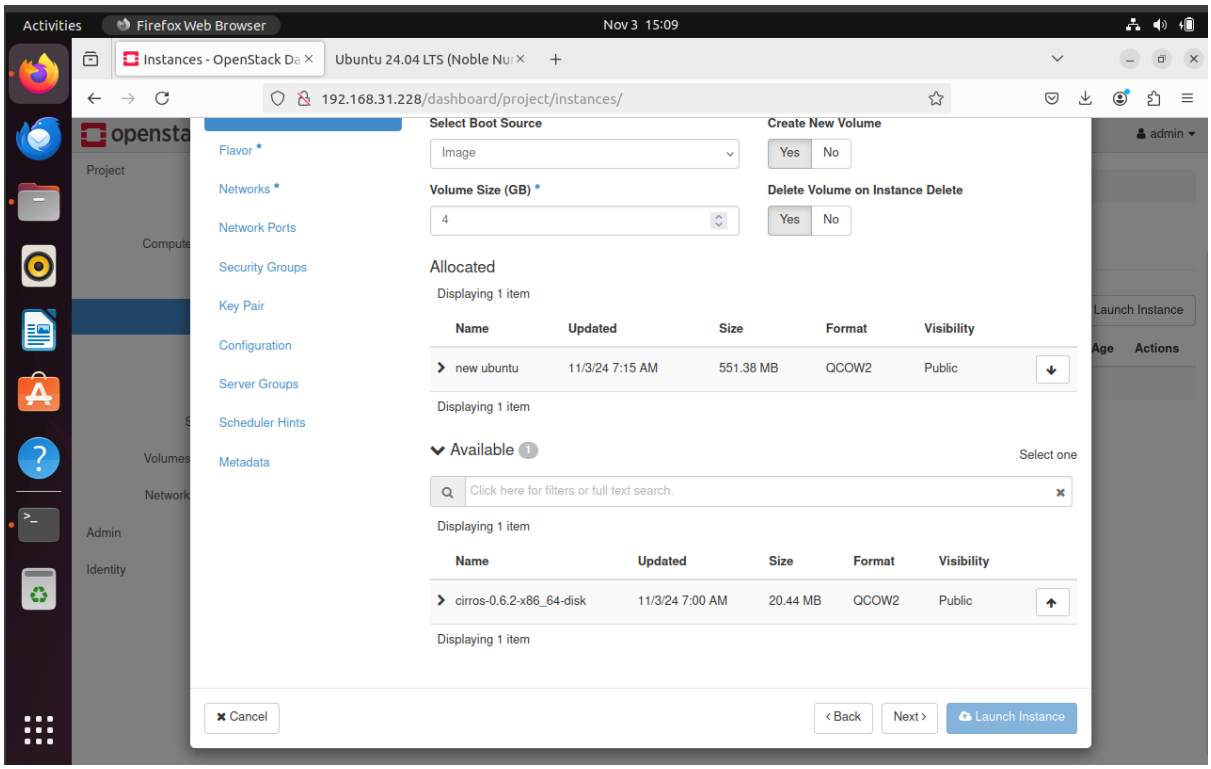
After router got created we add an interface to the router.

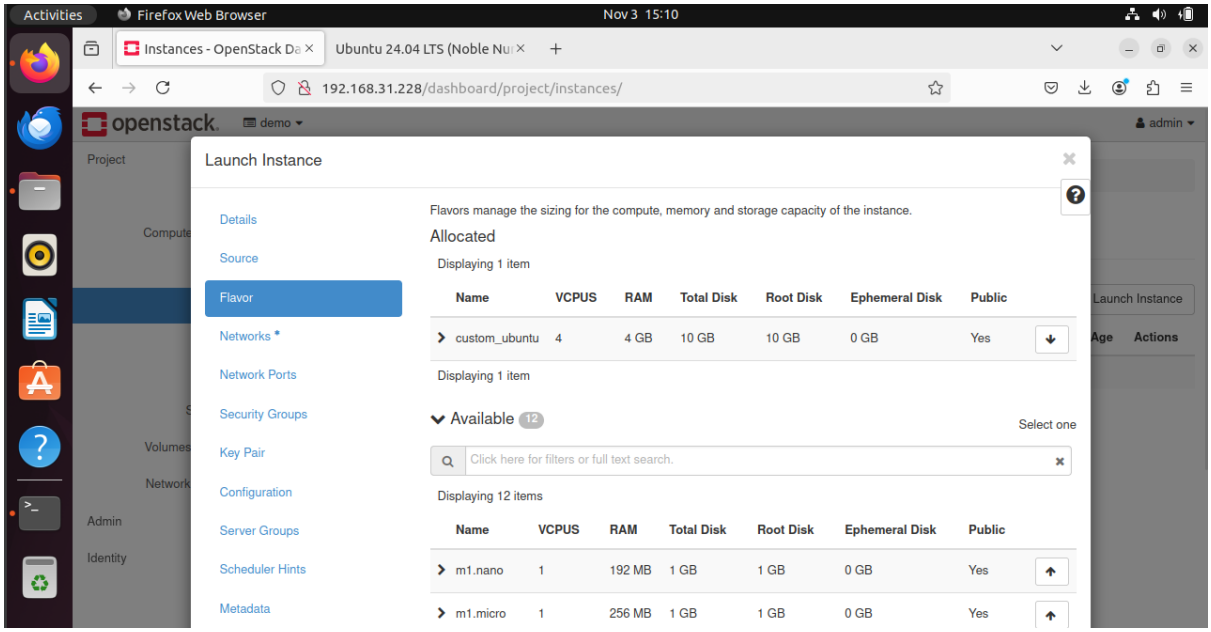


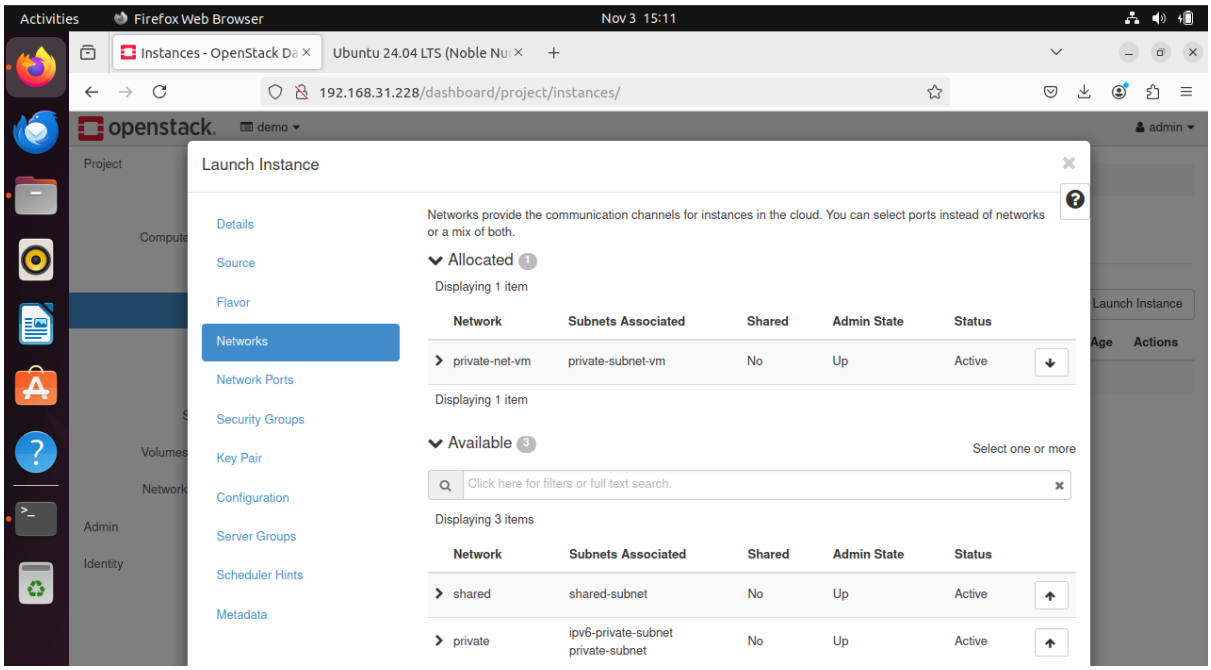


Then we started creating instances. Here are the settings below to create an instance.

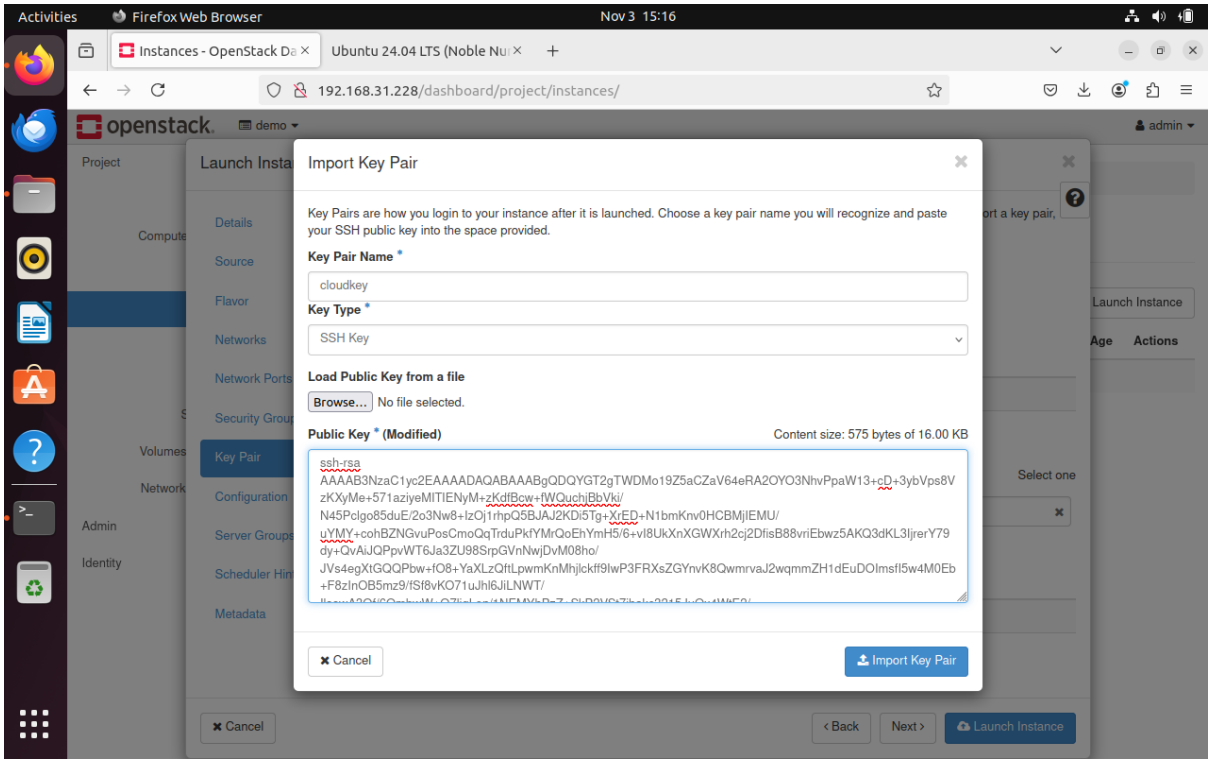

Activities
Firefox Web Browser
Nov 3 15:08
Instances - OpenStack Da
Ubuntu 24.04 LTS (Noble Nu
192.168.31.228/dashboard/project/instances/
openstack.
demo
admin
Project
Launch Instance
Launch Instance
Details
Source *
Flavor *
Networks *
Network Ports
Security Groups
Key Pair
Configuration
Server Groups
Scheduler Hints
Metadata
Please provide the initial hostname for the instance, the availability zone where it will be deployed, and the instance count. Increase the Count to create multiple instances with the same settings.
Project Name
demo
Instance Name *
test-instance
Description
demo testing instance
Availability Zone
nova
Count *
1
Total Instances
(10 Max)
10%
0 Current Usage
1 Added
9 Remaining
Cancel
Back
Next
Launch Instance


Activities
Firefox Web Browser
Nov 3 15:09
Instances - OpenStack Da
Ubuntu 24.04 LTS (Noble Nu
192.168.31.228/dashboard/project/instances/
admin
Flavor *
Networks *
Network Ports
Security Groups
Key Pair
Configuration
Server Groups
Scheduler Hints
Metadata
Select Boot Source
Image
Create New Volume
Yes
No
Volume Size (GB) *
4
Delete Volume on Instance Delete
Yes
No
Allocated
Displaying 1 item
Name
Updated
Size
Format
Visibility
new ubuntu
11/3/24 7:15 AM
551.38 MB
QCOW2
Public
Displaying 1 item
Available
Select one
Click here for filters or full text search.
Displaying 1 item
Name
Updated
Size
Format
Visibility
cirros-0.6.2-x86_64-disk
11/3/24 7:00 AM
20.44 MB
QCOW2
Public
Displaying 1 item
Launch Instance
Cancel
Back
Next
Launch Instance

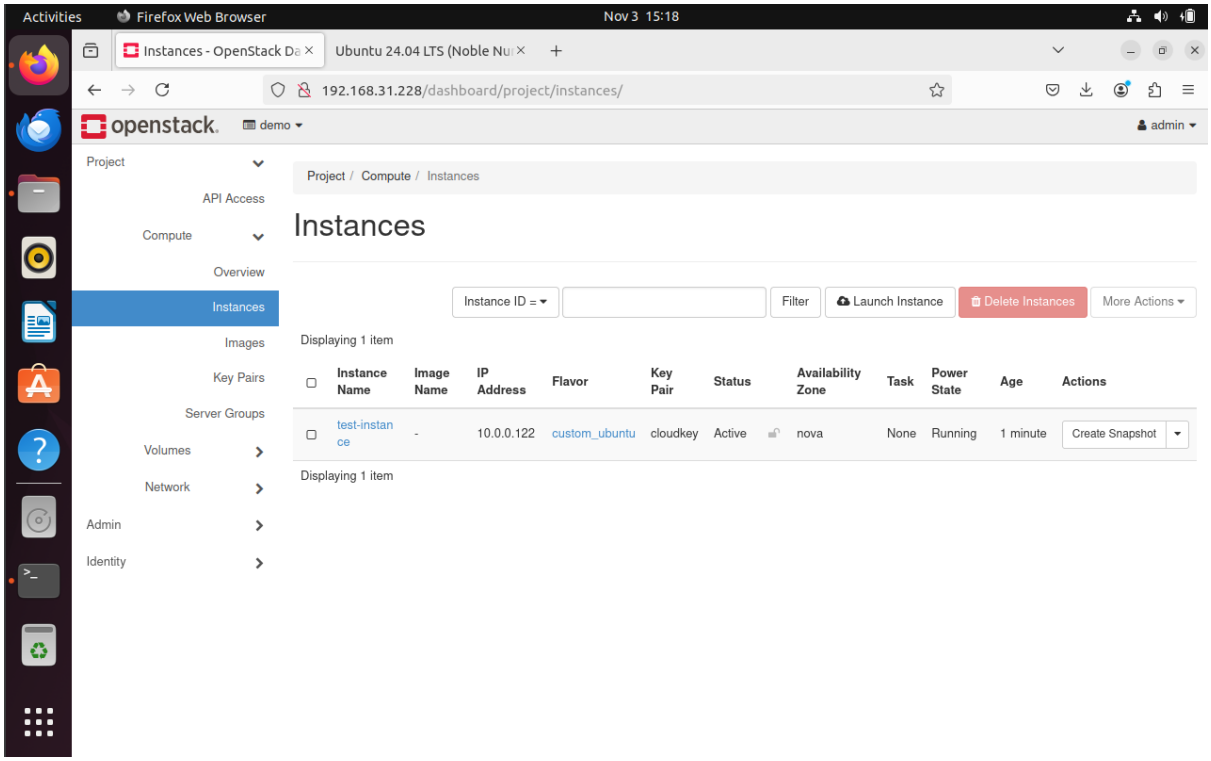




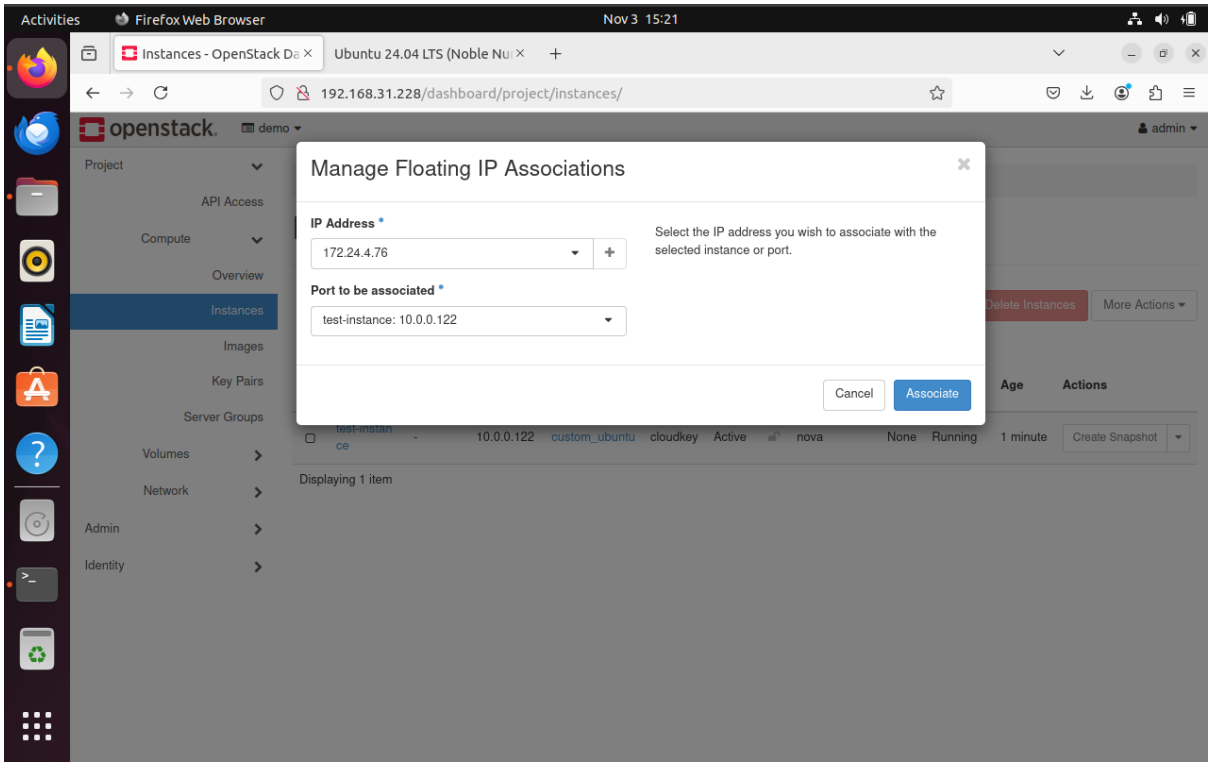
When creating key pairs we have to go to terminal(ssh) before importing the key pair. In the terminal a command must be entered. The command is ‘ ssh-keygen -t rsa -f cloud.key’. So to see the file what is created we can type ‘cat cloud.key.pub’ and copy the text from the terminal and paste it to the key pair settings.



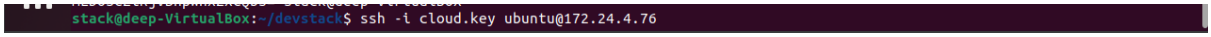
After that we can see that the instance is successfully created.



After creating an instance we clicked on associate floating ip's and then clicked on associate.



Then after typing the command below we should type the floating ip that is created before. And we must log in to the page by typing the ip address and then some filename like index.html.



Error:

The page didn’t log in. Showing that connecrion timed out. So we can’t process our task after that.