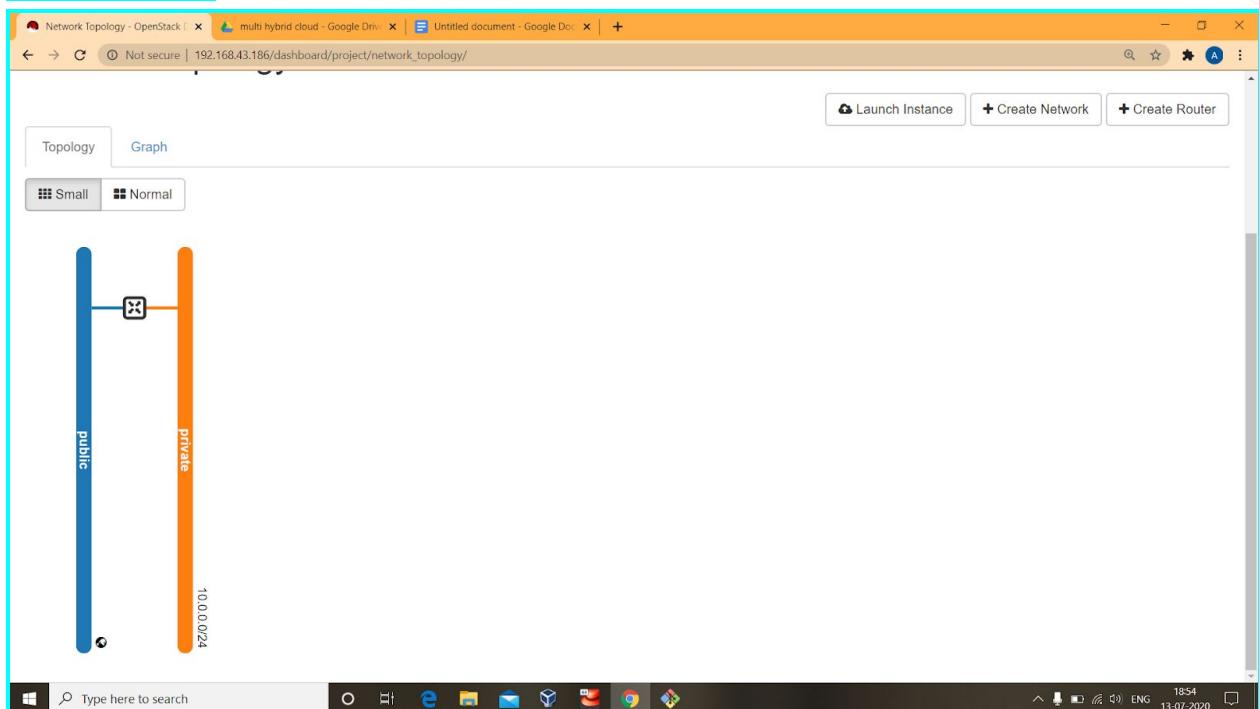


13th july:



The screenshot shows the Red Hat OpenStack Platform Identity dashboard. The top navigation bar includes 'RED HAT OPENSTACK PLATFORM', 'Project', 'Admin', and 'Identity'. The 'Identity' tab is selected. Below it, there are tabs for 'Projects', 'Users', 'Groups', and 'Roles', with 'Users' being the active tab. The main content area shows the title 'Identity / Users' and 'Users'. It displays a table with 9 items. The columns are: User Name, Description, Email, User ID, Enabled, Domain Name, and Actions. The users listed are:

User Name	Description	Email	User ID	Enabled	Domain Name	Actions
manilav2	-	manilav2@localhost	501eea8661e944e0886fb0c0aa9a32d3	Yes	Default	Edit
glance	-	glance@localhost	53dfaefb11d44aa98142a6b3af27eb1d	Yes	Default	Edit
cinder	-	cinder@localhost	7426eb15155446bba61fd9eb5bcd6af	Yes	Default	Edit
manila	-	manila@localhost	7ad4c7a8f1774b01824a843dba7ace37	Yes	Default	Edit
placement	-	placement@localhost	7df17eb7f02a46d2ad8e638b4484c047	Yes	Default	Edit
demo	-		8d2c9f9220bc44109448523d53ba5ed9	Yes	Default	Edit

The screenshot shows the 'Users' list page in the Red Hat OpenStack Platform Identity interface. At the top, there are navigation tabs for 'Project', 'Admin', and 'Identity'. Below that, a sub-navigation bar has 'Projects', 'Users' (which is underlined), 'Groups', and 'Roles'. The main content area is titled 'Identity / Users' and 'Users'. It displays a table with 9 items, each row containing a checkbox, User Name, Description, Email, User ID, Enabled status, Domain Name, and Actions (Edit and Delete buttons). The users listed are manilav2, glance, cinder, manila, and placement.

The screenshot shows the 'Create User' form in the Red Hat OpenStack Platform Identity interface. The left sidebar shows 'Projects', 'Users' (underlined), and 'Groups'. The main content area is titled 'Users' and 'Create User'. The form fields include 'Domain ID' (set to 'default'), 'Domain Name' (set to 'Default'), 'User Name *' (set to 'VISHESH'), 'Description' (empty), 'Email' (empty), 'Password *' (empty), 'Confirm Password *' (empty), and 'Primary Project' (empty). On the right side, there is a table titled 'Domain Name Actions' with 6 rows, each showing 'Default' and an 'Edit' button.

**IF U WANT TO GIVE ALL POWER THN SELECT ADMIN
ROLE AND PROJECT ARE SAME**

Users - OpenStack Dashboard | [multi hybrid cloud - Google Drive](#) | [Untitled document - Google Docs](#) | +

Not secure | 192.168.43.186/dashboard/identity/users/

RED HAT OPENSTACK PLATFORM Project

Identity

Projects Users Groups

Identity / Users

Users

Displaying 9 items

User Name	Description
manilav2	-
glance	-
cinder	-
manila	-
placement	-
demo	-
admin	-
services	Tenant for the openstack services

Email

Password *

Confirm Password *

Primary Project

Role

Enabled

Domain Name Actions

Domain Name	Actions
Default	<input type="button" value="Edit"/>

Type here to search

8d2c919220bc44109448523d53ba5ed9

Yes

Default

1858 13-07-2020

Projects - OpenStack Dashboard | [multi hybrid cloud - Google Drive](#) | [Untitled document - Google Docs](#) | +

Not secure | 192.168.43.186/dashboard/identity/

RED HAT OPENSTACK PLATFORM Project Admin Identity

Identity

Projects Users Groups Roles

Identity / Projects

Projects

Displaying 3 items

Name	Description	Project ID	Domain Name	Enabled	Actions
services	Tenant for the openstack services	a4cabb7b790a4dbc97b5b30239ede09	Default	Yes	<input type="button" value="Manage Members"/>
demo	default tenant	b5a44a86c0b94aceab92aaac453f880d	Default	Yes	<input type="button" value="Manage Members"/>
admin	admin tenant	ca8a1f044fae436fb0c8a4faf6321e	Default	Yes	<input type="button" value="Manage Members"/>

Displaying 3 items

192.168.43.186/dashboard/identity/

Type here to search

1801 13-07-2020

Projects - OpenStack Dashboard | multi hybrid cloud - Google Drive | Untitled document - Google Docs | +

Not secure | 192.168.43.186/dashboard/identity/#/create_project_update_members

RED HAT OPENSTACK PLATFORM Project Admin Identity

Identity Projects Users Groups

Identity / Projects

Projects

Displaying 3 items

<input type="checkbox"/>	Name	Description
<input type="checkbox"/>	services	Tenant for the open
<input type="checkbox"/>	demo	default tenant
<input type="checkbox"/>	admin	admin tenant

Displaying 3 items

Create Project

Project Information * Project Members Project Groups Quotas *

All Users Filter manilav2 glance cinder manila placement demo nova neutron Project Members Filter VISHESH

Enabled Actions

Manage Members Manage Members Manage Members

Projects - OpenStack Dashboard | multi hybrid cloud - Google Drive | Untitled document - Google Docs | +

Not secure | 192.168.43.186/dashboard/identity/#/create_project_createprojectinfoaction

RED HAT OPENSTACK PLATFORM Project Admin Identity

Identity Projects Users Groups

Identity / Projects

Projects

Displaying 3 items

<input type="checkbox"/>	Name	Description
<input type="checkbox"/>	services	Tenant for the open
<input type="checkbox"/>	demo	default tenant
<input type="checkbox"/>	admin	admin tenant

Displaying 3 items

Create Project

Project Information * Project Members Project Groups Quotas *

Domain ID Domain Name Name * Description
Enabled

Projects - OpenStack Dashboard | multi hybrid cloud - Google Drive | Untitled document - Google Docs | +

Not secure | 192.168.43.186/dashboard/identity/#/create_project_create_quotas

RED HAT OPENSTACK PLATFORM Project Admin Identity

Identity Projects Users Groups

Identity / Projects

Create Project

Project Information * Project Members Project Groups Quotas *

Metadata Items *	128
VCPUs *	10
Instances *	10
Injected Files *	5
Injected File Content (Bytes) *	10240
Key Pairs *	5
Length of Injected File Path *	255
Volumes *	10
Volume Snapshots *	10

+ Create Project Delete Projects

Enabled Actions

Manage Members Manage Members Manage Members

Type here to search 1902 13-07-2020

Projects - OpenStack Dashboard | multi hybrid cloud - Google Drive | Untitled document - Google Docs | +

Not secure | 192.168.43.186/dashboard/identity/

RED HAT OPENSTACK PLATFORM Project Admin Identity

Identity Projects Users Groups Roles

Identity / Projects

Projects

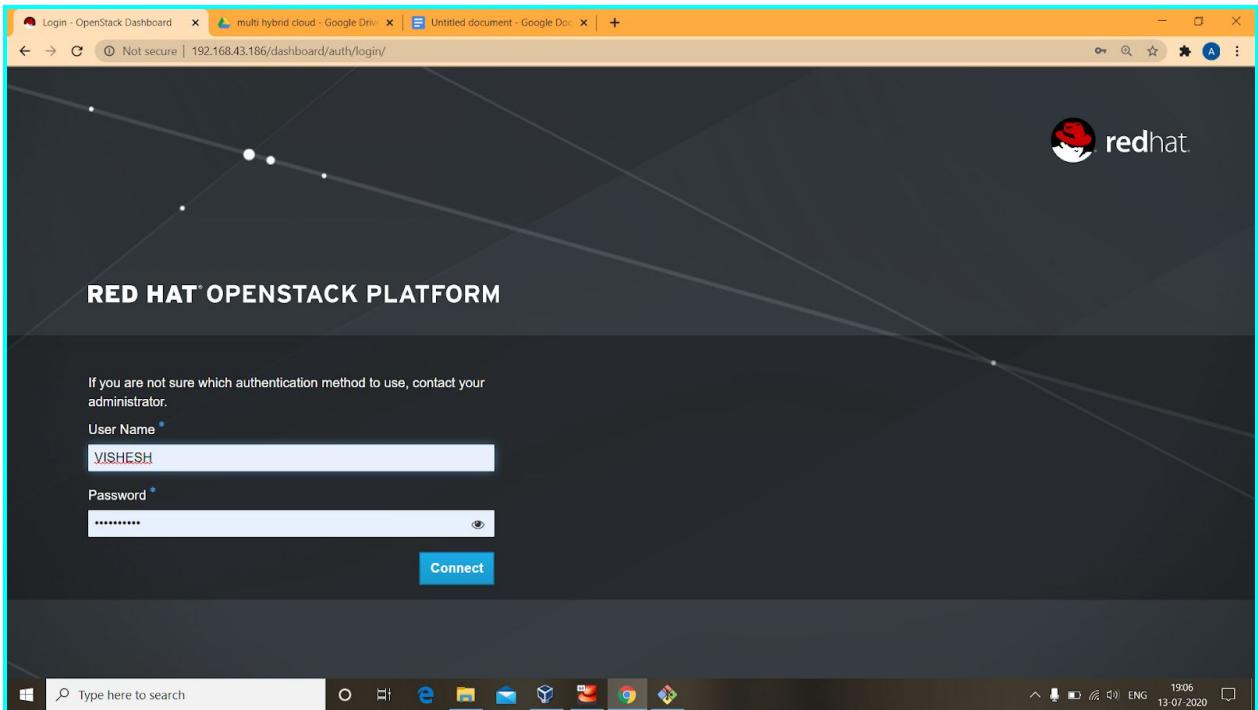
Project Name = Filter + Create Project Delete Projects

Displaying 4 items

Name	Description	Project ID	Domain Name	Enabled	Actions
TEAM1PROJECT		5414bd4ec8e24e91aac673d3ab69a0b2	Default	Yes	Manage Members
services	Tenant for the openstack services	a4cabb7b790a4dbc97b5b30239ede09	Default	Yes	Manage Members
demo	default tenant	b5a44a86c0b94aceab92aaac453f880d	Default	Yes	Manage Members
admin	admin tenant	ca8a1f044fae436fb0c8a4faff6321e	Default	Yes	Manage Members

Displaying 4 items

Type here to search 1905 13-07-2020



The screenshot shows a web browser window with the URL [Not secure | 192.168.43.186/dashboard/project/](http://192.168.43.186/dashboard/project/). The header includes the Red Hat OpenStack Platform logo and navigation tabs for "Project", "Identity", "Compute", "Volumes", and "Network". The main content area is titled "Overview" under "Project / Compute / Overview". It features a "Limit Summary" section with six circular icons representing resource usage:

Resource	Used	Total
Instances	0	10
VCPUs	0	10
RAM	0Bytes	50GB
Floating IPs	0	3
Security Groups	1	10
Volumes	0	10

Below this is a "Volume Storage" section showing "Used 0Bytes of 1000GB". The bottom of the screen shows a Windows taskbar with various pinned icons and the date/time "13-07-2020".

Instance Overview - OpenStack | multi-hybrid cloud - Google Drive | Untitled document - Google Docs | +

Not secure | 192.168.43.186/dashboard/project/

RED HAT OPENSTACK PLATFORM Project Identity

Project Compute Volumes Network

Overview Instances Images Key Pairs

Projects:
TEAM1PROJECT ✓

Project / Compute / Overview

Overview

Limit Summary

Instances	VCPUs	RAM	Floating IPs	Security Groups	Volumes
Used 0 of 10	Used 0 of 10	Used 0Bytes of 50GB	Allocated 0 of 3	Used 1 of 10	Used 0 of 10

Volume Storage
Used 0Bytes of 1000GB

192.168.43.186/dashboard/auth/switch/541fb4ec0e24e01aac673djab69af0b2/?next=

Type here to search

RED HAT OPENSTACK PLATFORM Project Identity

Project Compute Volumes Network

Overview Instances Images Key Pairs

Project / Compute / Images

Images

Click here for filters.

+ Create Image Delete Images

Displaying 3 items

<input type="checkbox"/>	Name	Type	Status	Visibility	Protected	Disk Format	Size	Actions
<input type="checkbox"/>	cirros	Image	Active	Public	No	QCOW2	273 bytes	<input type="button" value="Launch"/>
<input type="checkbox"/>	manila-service-image	Image	Active	Public	No	QCOW2	107.13 KB	<input type="button" value="Launch"/>
<input type="checkbox"/>	manila-service-image	Image	Active	Public	No	QCOW2	107.17 KB	<input type="button" value="Launch"/>

Displaying 3 items

192.168.43.186/dashboard/auth/switch/541fb4ec0e24e01aac673djab69af0b2/?next=

Type here to search

The screenshot shows the Red Hat OpenStack Platform dashboard with the Network tab selected. Under the Routers section, there is a table header with columns: Name, Status, External Network, Admin State, Availability Zones, and Actions. A message below the table states "No items to display."

Name	Status	External Network	Admin State	Availability Zones	Actions
------	--------	------------------	-------------	--------------------	---------

No items to display.

The screenshot shows the Red Hat OpenStack Platform dashboard with the Network Topology section selected. It displays a network diagram with a single vertical blue line labeled "public".

public

The screenshot shows a Windows desktop environment with a taskbar at the bottom. There are three browser windows open in a browser: "Routers - OpenStack Dashboard", "multi hybrid cloud - Google Drive", and "Untitled document - Google Docs". The system tray shows the date and time as 13-07-2020.

The image displays two overlapping windows on a Windows 10 desktop. The top window is a file selection dialog from File Explorer, showing a list of files in the 'Downloads' folder. The selected file is 'Fedora-Cloud-Base-32-1.6.x86_64.qcow2'. The bottom window is a web-based interface for uploading an image to an image service.

File Explorer (Top Window):

Name	Date modified	Type	Size
AnyDesk	28-06-2020 00:20	Application	27.0
TeamViewer_Setup	28-06-2020 00:20	Application	27.0
usage	26-06-2020 19:27	Microsoft Excel Co...	5.1
Fedora-Cloud-Base-32-1.6.x86_64.qcow2	26-06-2020 19:09	QCOW2 File	2.957
ARDUINO	26-06-2020 15:12	JPG File	
DTH11	26-06-2020 15:11	JPG File	
Temperature-Humidity-Monitoring-over...	26-06-2020 15:03	PNG File	
CIRCUIT DIAGRAM	26-06-2020 14:57	PDF File	1.8
Git-2.26.2-64-bit	26-06-2020 00:25	Application	45.7
putty	25-06-2020 22:11	Application	8
desktop background	25-06-2020 16:33	JPG File	5
VirtualBox-6.1.10-138449 Win	25-06-2020 09:37	Application	1.044

Image Service Upload Interface (Bottom Window):

Image Details:
Specify an image to upload to the Image Service.
Image Name*: fedora_linux
Image Description: fedora image

Image Source:
Source Type: File
File*: Fedora-Cloud-Base-32-1.6.x86_64.qcc
Format*: QCOW2 - QEMU Emulator

Image Requirements:
Kernel: Choose an image
Ramdisk: Choose an image

System Status Bar: Type here to search, Taskbar icons, Date: 13-07-2020, Time: 19:10

Images - OpenStack Dashboard | multi hybrid cloud - Google Drive | Untitled document - Google Docs | 13thJuly2020 - Google Drive | Untitled document - Google Docs | +

Not secure | 192.168.43.186/dashboard/project/images

RED HAT OPENSTACK PLATFORM Project Identity

Project Compute Volumes Network

Overview Instances Images Key Pairs

Project / Compute / Images

Images

Click here for filters.

+ Create Image Delete Images

Displaying 4 items

	Name	Type	Status	Visibility	Protected	Action
<input type="checkbox"/>	cirros	Image	Active	Public	No	Launch
<input type="checkbox"/>	fedora_linux	Image	Saving	Private	No	Delete Image
<input type="checkbox"/>	manila-service-image	Image	Active	Public	No	Launch

```
[root@openstack ~]# source kestonerc_demo
[root@openstack ~(keystone_demo)]# ip netns
qdhcp-d031d503-dcc4-4ddb-9225-b370fe42da3e (id: 1)
qrouter-993cc01b-f07b-494c-ad7b-f216c4f5eab8 (id: 0)
[root@openstack ~(keystone_demo)]# ifconfig
enp0s3: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
    inet 192.168.43.186 netmask 255.255.255.0 broadcast 192.168.43.255
        inet6 fe80::a00:27ff:fe04:dd49 prefixlen 64 scopeid 0x20<link>
        inet6 2401:4900:3058:9bfd:a00:27ff:fe04:dd49 prefixlen 64 scopeid
0x0<global>
    ether 08:00:27:04:dd:49 txqueuelen 1000 (Ethernet)
    RX packets 224971 bytes 315138670 (300.5 MiB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 21489 bytes 7772552 (7.4 MiB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
```

```
lo: flags=73<UP,LOOPBACK,RUNNING> mtu 65536
    inet 127.0.0.1 netmask 255.0.0.0
    inet6 ::1 prefixlen 128 scopeid 0x10<host>
    loop txqueuelen 1000 (Local Loopback)
    RX packets 906431 bytes 444780745 (424.1 MiB)
    RX errors 0 dropped 0 overruns 0 frame 0
```

```
TX packets 906431 bytes 444780745 (424.1 MiB)
TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
[root@openstack ~]# ifconfig enp0s3
enp0s3: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
inet 192.168.43.186 netmask 255.255.255.0 broadcast 192.168.43.255
inet6 fe80::a00:27ff:fe04:dd49 prefixlen 64 scopeid 0x20<link>
inet6 2401:4900:3058:9bfd:a00:27ff:fe04:dd49 prefixlen 64 scopeid
0x0<global>
ether 08:00:27:04:dd:49 txqueuelen 1000 (Ethernet)
RX packets 225033 bytes 315143118 (300.5 MiB)
RX errors 0 dropped 0 overruns 0 frame 0
TX packets 21527 bytes 7776912 (7.4 MiB)
TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
```

The screenshot shows the Red Hat OpenStack Platform dashboard. The top navigation bar includes tabs for Project, Compute, Volumes, Network, and Identity. The Network tab is selected. Below the navigation is a sub-menu with Network Topology, Networks (which is selected and highlighted in blue), Routers, Security Groups, Floating IPs, and Trunks. The main content area displays the 'Networks' section with the title 'Networks'. It shows a table with one item: 'public'. The table columns are Name, Subnets Associated, Shared, External, Status, Admin State, Availability Zones, and Actions. The 'public' entry has 'No' under Subnets Associated, 'Yes' under External, 'Active' under Status, and 'UP' under Admin State. A red box highlights the 'Create Network' button at the top right of the table.

Name	Subnets Associated	Shared	External	Status	Admin State	Availability Zones	Actions
public	No	Yes	Active	UP	-	-	Edit

The screenshot shows the 'Create Network' wizard. The title bar says 'Create Network'. The left sidebar shows the 'Networks' section with one item, 'public'. The main content area has three tabs: Network (selected), Subnet, and Subnet Details. Under the Network tab, there is a 'Network Name' input field containing 'lab1'. To the right of the input field is a descriptive text: 'Create a new network. In addition, a subnet associated with the network can be created in the following steps of this wizard.' There are two checked checkboxes: 'Enable Admin State' and 'Create Subnet'. Below these checkboxes is a 'Availability Zone Hints' dropdown menu with 'nova' listed. At the bottom of the wizard are 'Cancel', 'Back', and 'Next >' buttons. A red box highlights the 'Create Subnet' checkbox. The background of the dashboard is visible, showing the same network list as the first screenshot.

Networks - OpenStack Dashboard | multi hybrid cloud - Google Drive | Untitled document - Google Doc | 13thJuly2020 - Google Drive | Untitled document - Google Doc | +

Not secure | 192.168.43.186/dashboard/project/networks/

Create Network

Project / Network / Networks

Displaying 1 item

Name
public

Displaying 1 item

Subnet

Network Subnet Subnet Details

Subnet Name: mysubnet1

Network Address: 11.0.1.0/24

IP Version: IPv4

Gateway IP:

Disable Gateway

Cancel Back Next

Actions Delete Networks

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.

Networks - OpenStack Dashboard | multi hybrid cloud - Google Drive | Untitled document - Google Doc | 13thJuly2020 - Google Drive | Untitled document - Google Doc | +

Not secure | 192.168.43.186/dashboard/project/networks/

Create Network

Project / Network / Networks

Displaying 1 item

Name
public

Displaying 1 item

Subnet

Network Subnet Subnet Details

Enable DHCP

Allocation Pools:

DNS Name Servers:

Host Routes:

Cancel Back Next

Actions Delete Networks

Specify additional attributes for the subnet.

Networks - OpenStack Dashboard | multi hybrid cloud - Google Drive | Untitled document - Google Doc | 13thJuly2020 - Google Drive | Untitled document - Google Doc | + Not secure | 192.168.43.186/dashboard/project/networks/ Project Help VISHESH

RED HAT OPENSTACK PLATFORM Project Identity

Project Compute Volumes Network

Network Topology Networks Routers Security Groups Floating IPs Trunks

Project / Network / Networks

Networks

Name = Filter + Create Network Delete Networks

Displaying 2 items

<input type="checkbox"/>	Name	Subnets Associated	Shared	External	Status	Admin State	Availability Zones	Actions
<input type="checkbox"/>	lab1	mysubnet1 11.0.1.0/24	No	No	Active	UP	nova	<button>Edit Network</button>
<input type="checkbox"/>	public		No	Yes	Active	UP	-	

Displaying 2 items

Type here to search 19:17 ENG 13-07-2020

Network Topology - OpenStack | multi hybrid cloud - Google Drive | Untitled document - Google Doc | 13thJuly2020 - Google Drive | Untitled document - Google Doc | + Not secure | 192.168.43.186/dashboard/project/network_topology/ Small Normal

11.0.1.0/24

Windows Type here to search 19:17 ENG 13-07-2020

Networks - OpenStack Dashboard | multi hybrid cloud - Google Drive | Untitled document - Google Doc | 13thJuly2020 - Google Drive | Untitled document - Google Doc | +

Not secure | 192.168.43.186/dashboard/project/networks/

RED HAT OPENSTACK PLATFORM Project Identity

Project Network Topology

Project / Network / Networks

Create Network

Network Subnet Subnet Details

Network Name lab2

Create a new network. In addition, a subnet associated with the network can be created in the following steps of this wizard.

Enable Admin State

Create Subnet

Availability Zone Hints nova

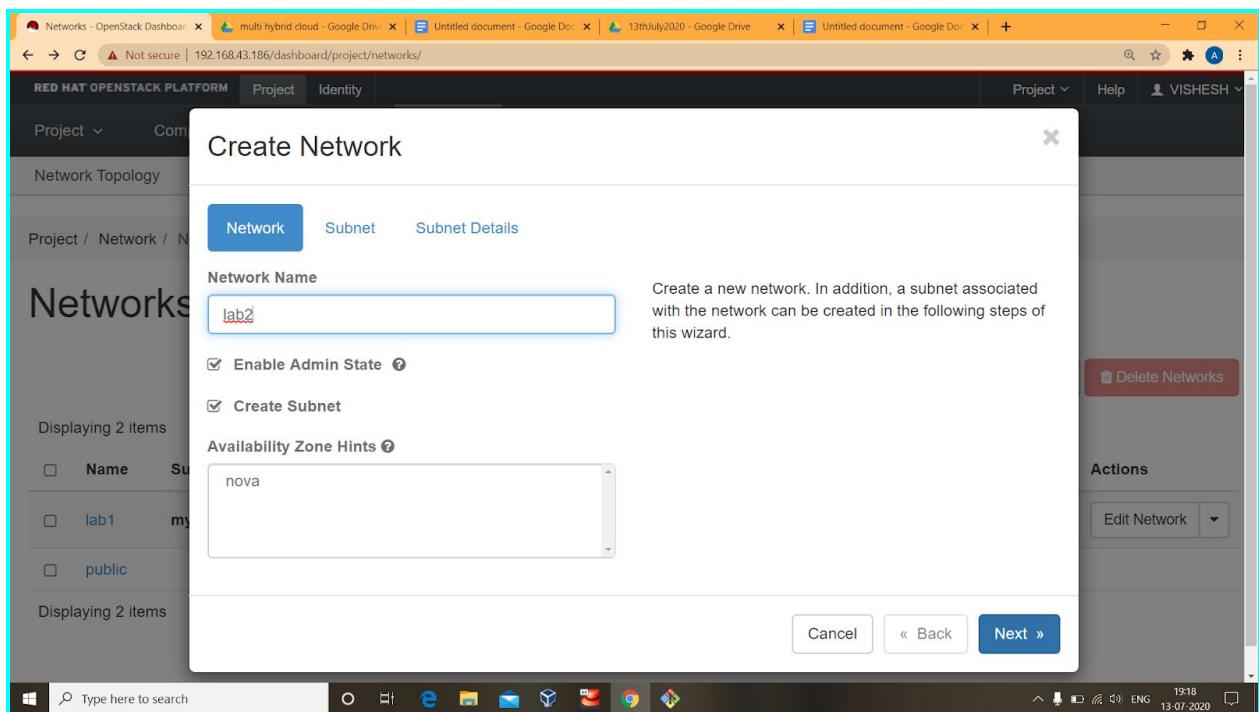
Cancel Back Next »

Actions Delete Networks Edit Network

Displaying 2 items

Name	Subnets
lab1	mysubnet
public	

Displaying 2 items



Networks - OpenStack Dashboard | multi hybrid cloud - Google Drive | Untitled document - Google Doc | 13thJuly2020 - Google Drive | Untitled document - Google Doc | +

Not secure | 192.168.43.186/dashboard/project/networks/

RED HAT OPENSTACK PLATFORM Project

Network Topology

Project / Network / Networks

Create Network

Network Subnet Subnet Details

Subnet Name mysubnet

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.

Network Address 12.0.2.0/24

IP Version IPv4

Gateway IP

Disable Gateway

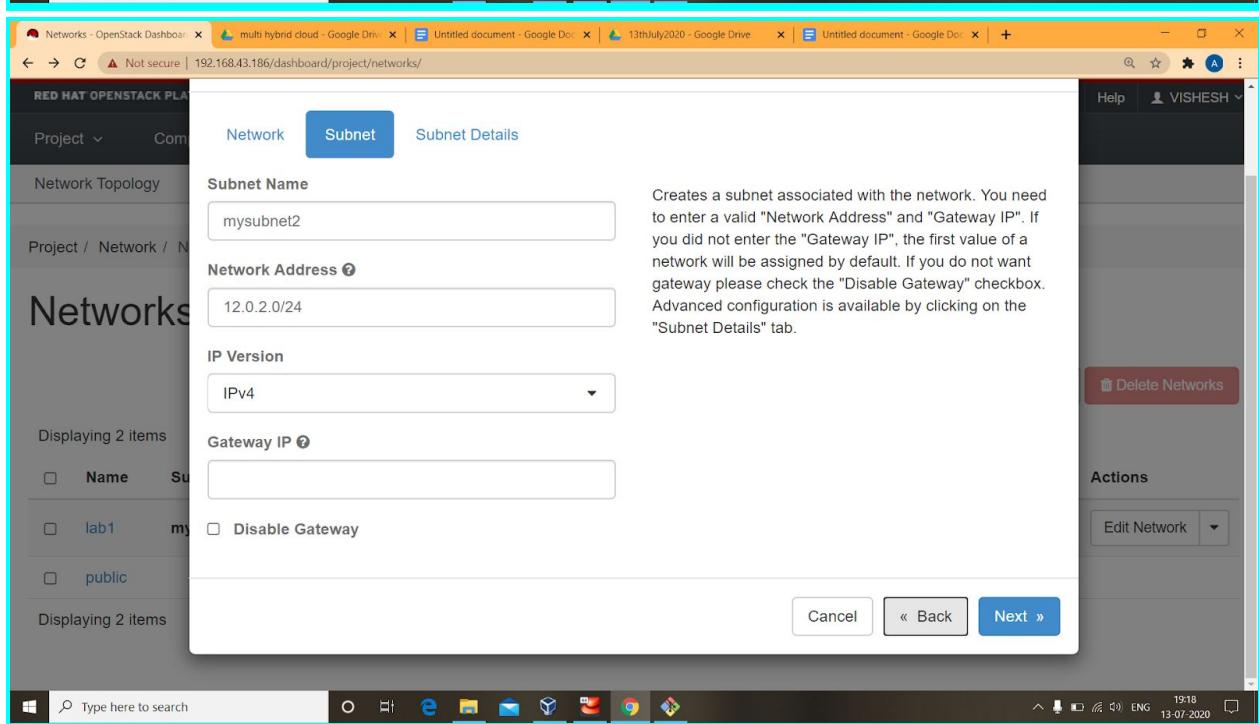
Cancel Back Next »

Actions Delete Networks Edit Network

Displaying 2 items

Name	Subnets
lab1	mysubnet
public	

Displaying 2 items



Not secure | 192.168.43.186/dashboard/project/networks/

Specify additional attributes for the subnet.

Allocation Pools ?

DNS Name Servers ?

Host Routes ?

Displaying 2 items

Name	Subnet
lab1	my subnet
public	

Displaying 2 items

Actions

Delete Networks

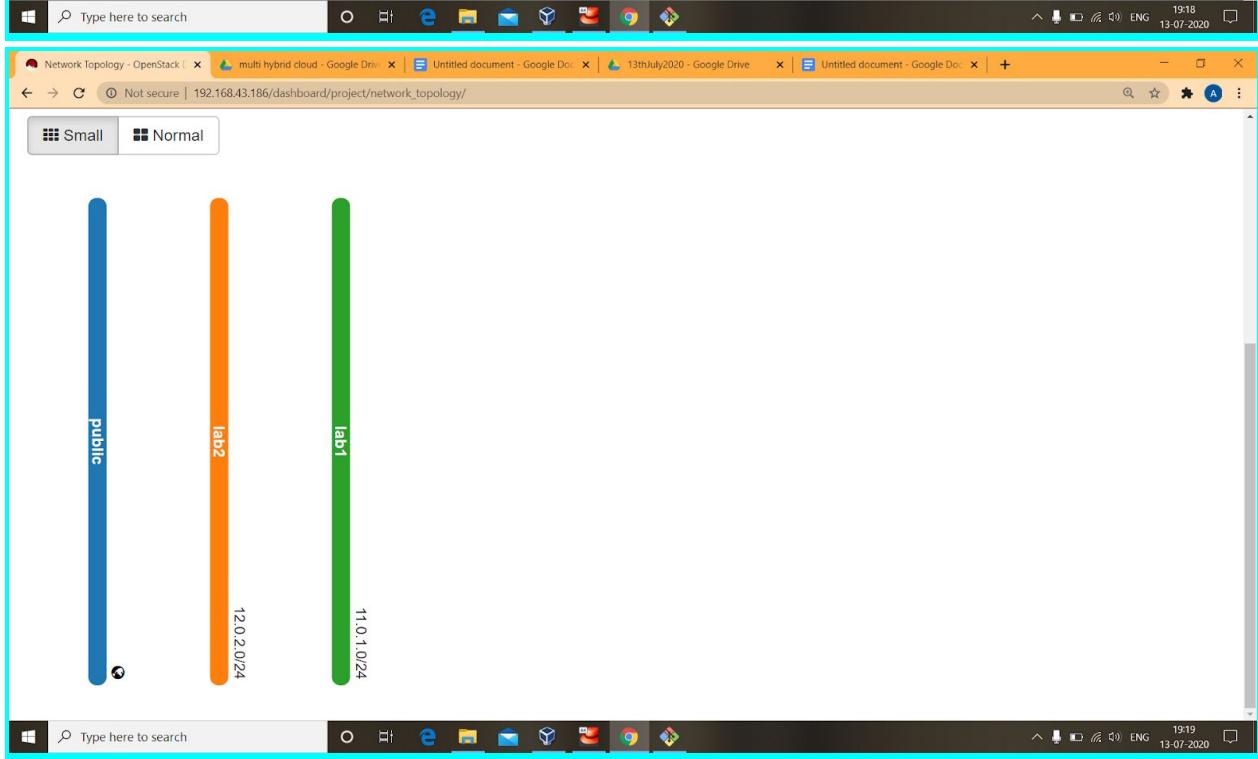
Edit Network

Cancel

« Back

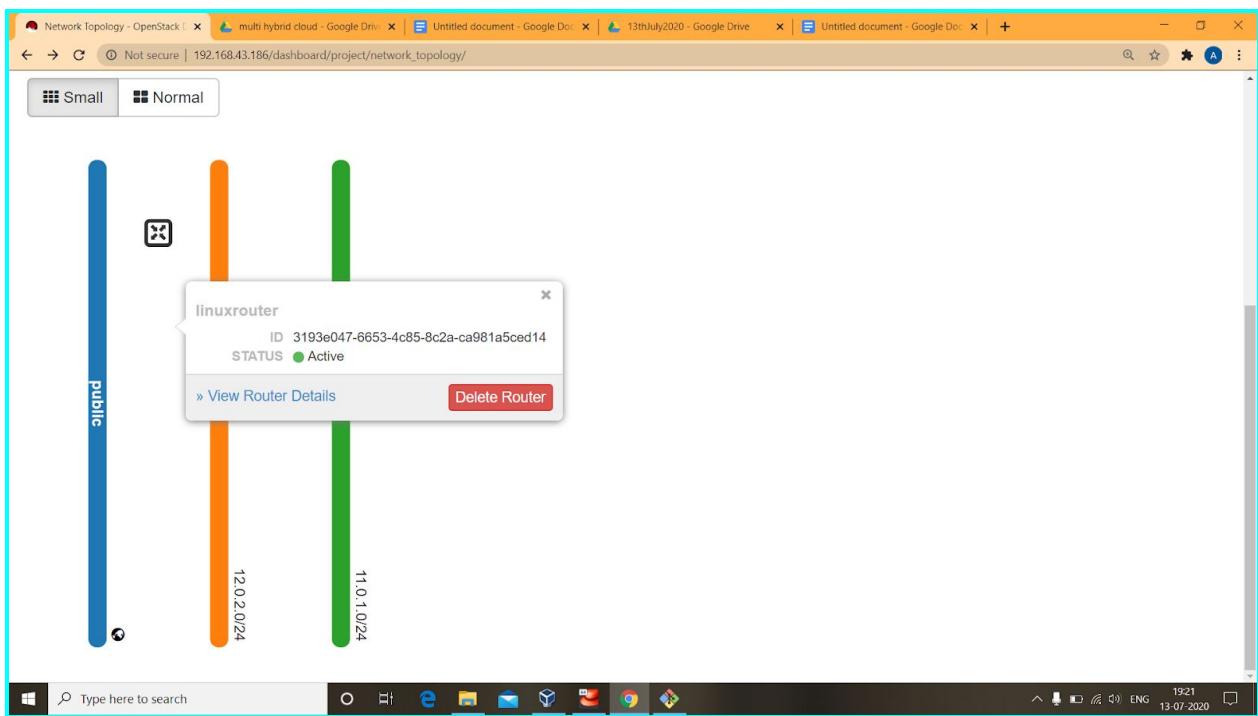
Create

This screenshot shows the 'Networks' page in the OpenStack Dashboard. It displays two networks: 'lab1' and 'public'. For 'lab1', there is a 'my subnet' entry. The interface includes sections for 'Allocation Pools', 'DNS Name Servers', and 'Host Routes', each with an associated input field. A sidebar on the left shows a 'Network Topology' diagram. On the right, there are 'Actions' buttons for deleting or editing networks, along with 'Cancel', '« Back', and a prominent 'Create' button.



The screenshot shows the Red Hat OpenStack Platform dashboard. The top navigation bar includes tabs for Project, Identity, Network, and Network Topology. The Network tab is selected, and the sub-tab Routers is also selected. The main content area displays a table with columns: Name, Status, External Network, Admin State, Availability Zones, and Actions. A search bar at the top right allows filtering by Router Name. Below the table, a message says "No items to display."

The screenshot shows the Red Hat OpenStack Platform dashboard with a modal dialog box titled "Create Router". The dialog has fields for "Router Name" (set to "linuxrouter"), "Description" (with the placeholder "Creates a router with specified parameters"), and "External Network" (a dropdown menu set to "Select network"). Under "Availability Zone Hints", the value "nova" is listed. At the bottom of the dialog are "Cancel" and "Create Router" buttons.



```
[root@openstack ~]# ip netns
qdhcp-e84d7caf-18fa-4832-b492-f924233d6510 (id: 2)
qdhcp-d031d503-dcc4-4ddb-9225-b370fe42da3e (id: 1)
qrouter-993cc01b-f07b-494c-ad7b-f216c4f5eab8 (id: 0)
[root@openstack ~]# ip netns
qdhcp-96434b2f-474c-4a91-ab9e-4e6536cd8221 (id: 3)
qdhcp-e84d7caf-18fa-4832-b492-f924233d6510 (id: 2)
qdhcp-d031d503-dcc4-4ddb-9225-b370fe42da3e (id: 1)
qrouter-993cc01b-f07b-494c-ad7b-f216c4f5eab8 (id: 0)
```

Project / Network / Routers / linuxrouter

Set Gateway ▾

Overview Interfaces Static Routes

+ Add Interface

Name	Fixed IPs	Status	Type	Admin State	Actions
No items to display.					

Add Interface

Subnet *

lab1: 11.0.1.0/24 (mysubnet1)

IP Address (optional) ?

Description:

You can connect a specified subnet to the router.
If you don't specify an IP address here, the gateway's IP address of the selected subnet will be used as the IP address of the newly created interface of the router. If the gateway's IP address is in use, you must use a different address which belongs to the selected subnet.

Cancel Submit

No items to display.

The screenshot shows the Red Hat OpenStack Platform dashboard. The top navigation bar includes tabs for Project, Compute, Volumes, Network, and Identity. The Network tab is selected, and the sub-menu shows Network Topology, Networks, Routers, Security Groups, Floating IPs, and Trunks. The Routers option is highlighted. A green success message box in the top right corner states "Success: Interface added 11.0.1.1". The main content area is titled "linuxrouter" and shows the "Interfaces" tab selected. It displays a table with one item:

<input type="checkbox"/>	Name	Fixed IPs	Status	Type	Admin State	Actions
<input type="checkbox"/>	(7cb3fe1e-9314)	• 11.0.1.1	Down	Internal Interface	UP	<button>Delete Interface</button>

Below the table, it says "Displaying 1 item".

The screenshot shows a terminal window with the following command and output:

```
[root@openstack ~]# ip netns
qrouter-3193e047-6653-4c85-8c2a-ca981a5ced14 (id: 4)
qdhcp-96434b2f-474c-4a91-ab9e-4e6536cd8221 (id: 3)
qdhcp-e84d7caf-18fa-4832-b492-f924233d6510 (id: 2)
qdhcp-d031d503-dcc4-4ddb-9225-b370fe42da3e (id: 1)
qrouter-993cc01b-f07b-494c-ad7b-f216c4f5eab8 (id: 0)
```

Project / Compute / Images

Images

Click here for filters.

+ Create Image Delete Images

Displaying 4 items

<input type="checkbox"/>	Name	Type	Status	Visibility	Protected	
<input type="checkbox"/>	> cirros	Image	Active	Public	No	<button>Launch</button>
<input type="checkbox"/>	> fedora_linux	Image	Active	Private	No	<button>Launch</button>
<input type="checkbox"/>	> manila-service-image	Image	Active	Public	No	<button>Launch</button>
<input type="checkbox"/>	> manila-service-image	Image	Active	Public	No	<button>Launch</button>

Displaying 4 items

```
[root@openstack ~]# cp keystonec_demo keystonec_vishesh
[root@openstack ~]# ls
a.txt keystonec_admin keystonec_demo keystonec_vishesh
[root@openstack ~]# vi keystonec_vishesh
[root@openstack ~]# source keystonec_vishesh
[root@openstack ~]# cat keystonec_vishesh
unset OS_SERVICE_TOKEN
export OS_USERNAME=VISHESH
export OS_PASSWORD='AVIFOREVER'
export PS1='[\u@\h \W(keystone_i m vishesh)]$ '
export OS_AUTH_URL=http://192.168.43.186:5000/v3

export OS_PROJECT_NAME=TEAM1PROJECT
export OS_USER_DOMAIN_NAME=Default
export OS_PROJECT_DOMAIN_NAME=Default
export OS_IDENTITY_API_VERSION=3

[root@openstack ~]# nova list
+-----+-----+-----+-----+
| ID      | Name   | Status | Task State | Power State | Networks |
|          |        |        |             |              |           |
+-----+-----+-----+-----+
```

| 8853a9f9-b135-436d-ac0d-6f5bee8a22a6 | firstos1 | ACTIVE | - | Running |
lab1=11.0.1.9 |

The screenshot shows a Windows desktop environment with two main windows open.

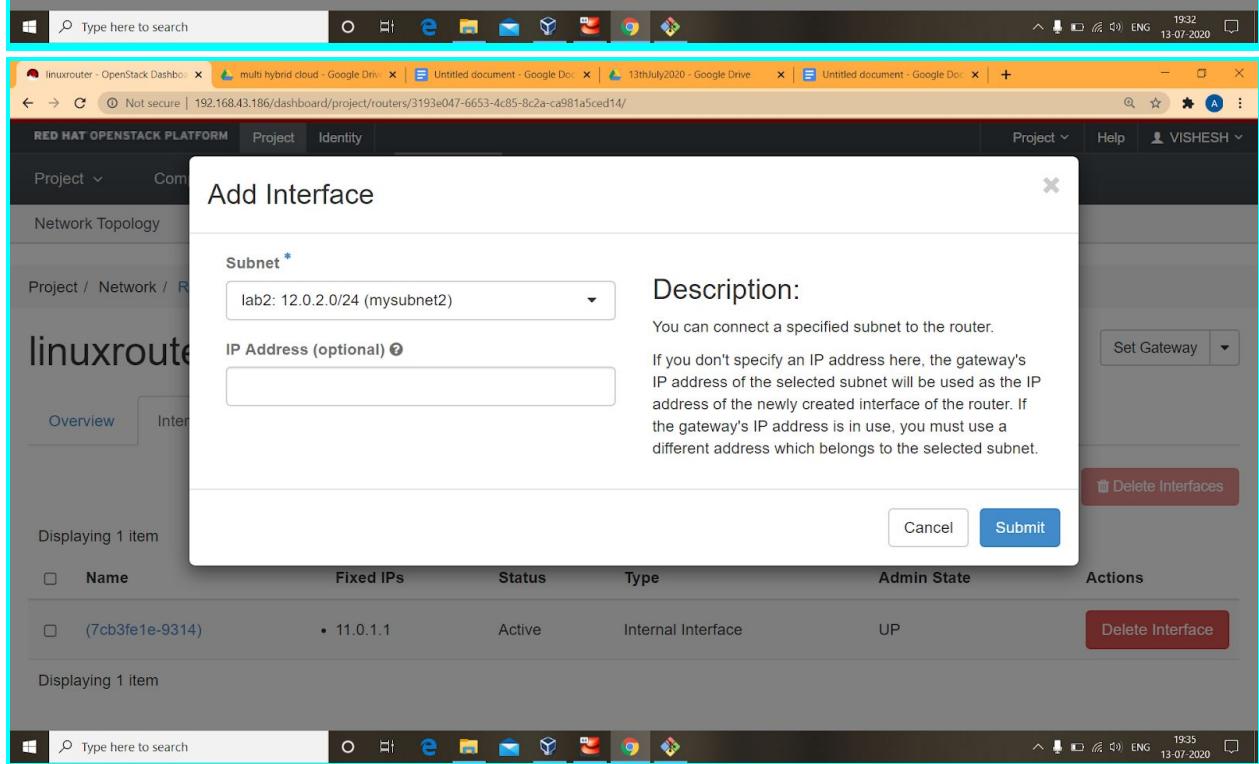
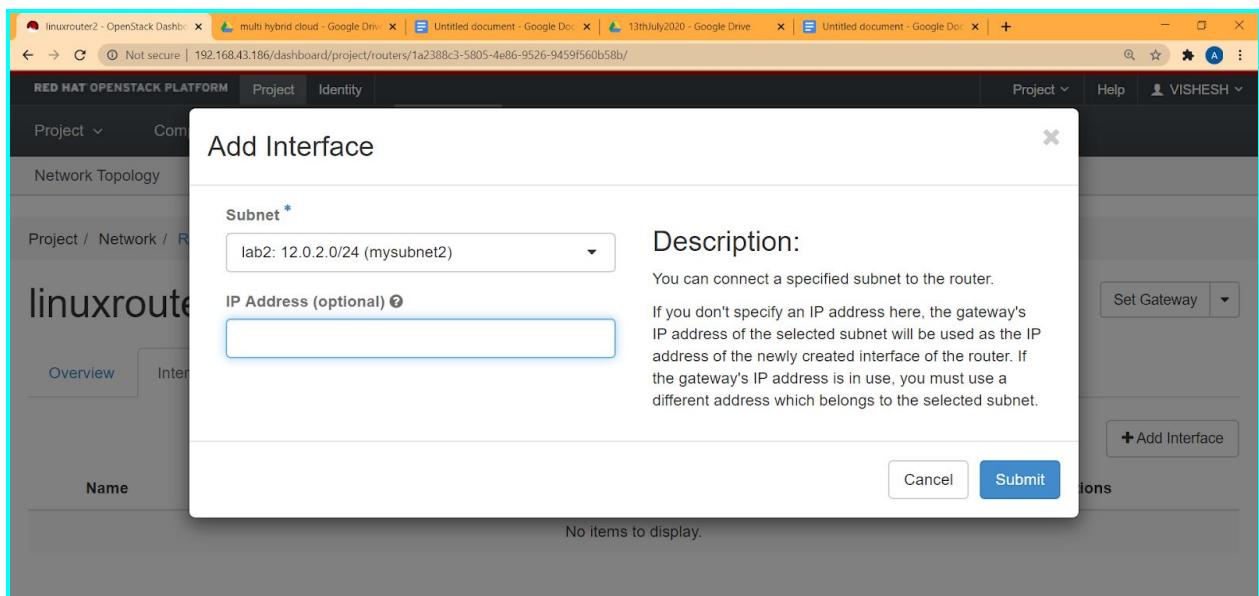
The top window is a terminal window titled "root@openstack~". It displays a series of command-line exports for OpenStack authentication:

```
unset OS_SERVICE_TOKEN
export OS_USERNAME=VISHESH
export OS_PASSWORD='AVIFOREVER'
export PS1='[\u@\h \w]$(keystone iam vishesh)]\$ '
export OS_AUTH_URL=http://192.168.43.186:5000/v3

export OS_PROJECT_NAME=TEAM1PROJECT
export OS_USER_DOMAIN_NAME=Default
export OS_PROJECT_DOMAIN_NAME=Default
export OS_IDENTITY_API_VERSION=3
```

The bottom window is a web browser displaying a network topology diagram. The URL in the address bar is "Not secure | 192.168.43.186/dashboard/project/network_topology/". The diagram shows three vertical lines representing network segments:

- A blue line labeled "Public" at the bottom.
- An orange line labeled "lab2" at the bottom, with the IP "12.0.2.0/24" written vertically next to it.
- A green line labeled "lab1" at the bottom, with the IP "11.0.1.0/24" written vertically next to it. A small black square icon with an "X" is positioned near the top of the green line.



linuxrouter - OpenStack Dashboard | multi hybrid cloud - Google Drive | Untitled document - Google Doc | 13thJuly2020 - Google Drive | Untitled document - Google Doc | +

Not secure | 192.168.43.186/dashboard/project/routers/3193e047-6653-4c85-8c2a-ca981a5ced14/

Project Network Routers Network Trunks Success: Interface added 12.0.2.1

Network Topology Networks Routers Security Groups Floating IPs Trunks

Project / Network / Routers / linuxrouter Set Gateway

linuxrouter

Overview Interfaces Static Routes

+ Add Interface Delete Interfaces

Displaying 2 items

<input type="checkbox"/> Name	Fixed IPs	Status	Type	Admin State	Actions
(7cb3fe1e-9314)	• 11.0.1.1	Active	Internal Interface	UP	Delete Interface
(ac5c441c-0d83)	• 12.0.2.1	Down	Internal Interface	UP	Delete Interface

Displaying 2 items

192.168.43.186/dashboard/project/routers/.../addinterface

Type here to search

Network Topology - OpenStack | multi hybrid cloud - Google Drive | Untitled document - Google Doc | 13thJuly2020 - Google Drive | Untitled document - Google Doc | +

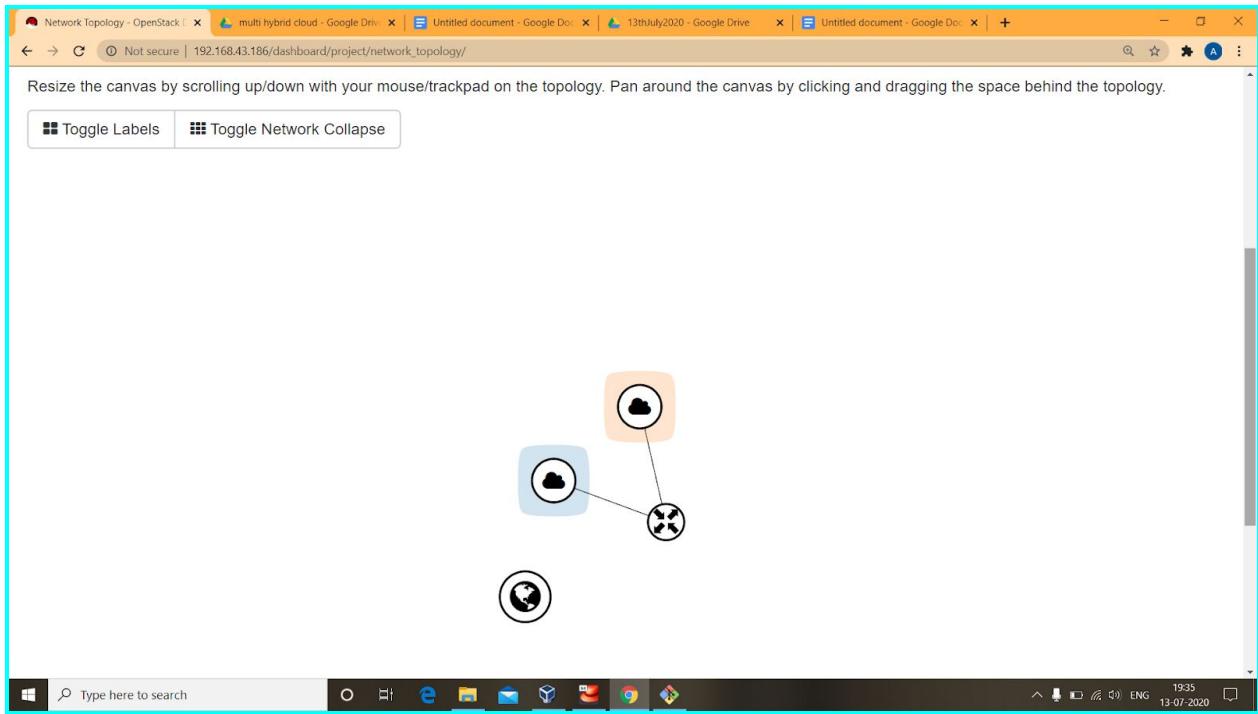
Not secure | 192.168.43.186/dashboard/project/network_topology/

```

graph LR
    Router[Router] --- Public[public]
    Router --- Lab2[lab2]
    Router --- Lab1[lab1]
    
```

Router IP: 12.0.2.1
 Public IP: 11.0.1.1
 Lab2 IP: 12.0.2.0/24
 Lab1 IP: 11.0.1.0/24

Windows taskbar: Type here to search, Start button, File Explorer, Mail, Calendar, Task View, Taskbar settings, ENG, 19:35, 13-07-2020



```
[root@openstack ~]# ip netns
qrouter-3193e047-6653-4c85-8c2a-ca981a5ced14 (id: 4)
qdhcp-96434b2f-474c-4a91-ab9e-4e6536cd8221 (id: 3)
qdhcp-e84d7caf-18fa-4832-b492-f924233d6510 (id: 2)
qdhcp-d031d503-dcc4-4ddb-9225-b370fe42da3e (id: 1)
qrouter-993cc01b-f07b-494c-ad7b-f216c4f5eab8 (id: 0)
[root@openstack ~]# ip netns
qrouter-7cb3fe1e-9314-467d-a496-7042e63a9355 bash
Command "qrouter-7cb3fe1e-9314-467d-a496-7042e63a9355" is unknown, try "ip
netns help".
[root@openstack ~]# ifconfig
enp0s3: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
    inet 192.168.43.186 netmask 255.255.255.0 broadcast 192.168.43.255
        inet6 fe80::a00:27ff:fe04:dd49 prefixlen 64 scopeid 0x20<link>
        inet6 2401:4900:3058:9bfd:a00:27ff:fe04:dd49 prefixlen 64 scopeid
            0x0<global>
            ether 08:00:27:04:dd:49 txqueuelen 1000 (Ethernet)
            RX packets 227470 bytes 315427563 (300.8 MiB)
            RX errors 0 dropped 0 overruns 0 frame 0
            TX packets 24372 bytes 11502370 (10.9 MiB)
            TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
```

```
lo: flags=73<UP,LOOPBACK,RUNNING> mtu 65536
    inet 127.0.0.1 netmask 255.0.0.0
    inet6 ::1 prefixlen 128 scopeid 0x10<host>
        loop txqueuelen 1000 (Local Loopback)
            RX packets 1370189 bytes 537551664 (512.6 MiB)
            RX errors 0 dropped 0 overruns 0 frame 0
            TX packets 1370189 bytes 537551664 (512.6 MiB)
            TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
```

```
[root@openstack ~]# ovs-vsctl show
0c0552b8-e81b-4ef4-bc3a-0b2eaac6e011
    Manager "ptcp:6640:127.0.0.1"
        is_connected: true
    Bridge br-tun
        Controller "tcp:127.0.0.1:6633"
            is_connected: true
            fail_mode: secure
        Port patch-int
            Interface patch-int
                type: patch
                options: {peer=patch-tun}
        Port br-tun
            Interface br-tun
                type: internal
    Bridge br-int
        Controller "tcp:127.0.0.1:6633"
            is_connected: true
            fail_mode: secure
        Port "tapb80a1a81-b9"
            tag: 4
            Interface "tapb80a1a81-b9"
                type: internal
        Port "qg-a817bfa5-d4"
            tag: 1
            Interface "qg-a817bfa5-d4"
                type: internal
        Port "qr-e2146d45-72"
            tag: 2
            Interface "qr-e2146d45-72"
```

```
    type: internal
Port "tap8e675b87-e9"
    tag: 3
    Interface "tap8e675b87-e9"
        type: internal
Port "tap298f262b-3d"
    tag: 2
    Interface "tap298f262b-3d"
        type: internal
Port "qr-7cb3fe1e-93"
    tag: 3
    Interface "qr-7cb3fe1e-93"
        type: internal
Port br-int
    Interface br-int
        type: internal
Port int-br-ex
    Interface int-br-ex
        type: patch
        options: {peer=phy-br-ex}
Port patch-tun
    Interface patch-tun
        type: patch
        options: {peer=patch-int}
Port "qr-ac5c441c-0d"
    tag: 4
    Interface "qr-ac5c441c-0d"
        type: internal
Bridge br-ex
    Controller "tcp:127.0.0.1:6633"
        is_connected: true
        fail_mode: secure
Port br-ex
    Interface br-ex
        type: internal
Port phy-br-ex
    Interface phy-br-ex
        type: patch
        options: {peer=int-br-ex}
```

```
ovs_version: "2.9.0"
[root@openstack ~]# ip netns exec
qrouter-3193e047-6653-4c85-8c2a-ca981a5ced14 bash
[root@openstack ~]# ifconfig
lo: flags=73<UP,LOOPBACK,RUNNING> mtu 65536
    inet 127.0.0.1 netmask 255.0.0.0
        inet6 ::1 prefixlen 128 scopeid 0x10<host>
            loop txqueuelen 1000 (Local Loopback)
            RX packets 0 bytes 0 (0.0 B)
            RX errors 0 dropped 0 overruns 0 frame 0
            TX packets 0 bytes 0 (0.0 B)
            TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

qr-7cb3fe1e-93: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1450
    inet 11.0.1.1 netmask 255.255.255.0 broadcast 11.0.1.255
        inet6 fe80::f816:3eff:fec2:554c prefixlen 64 scopeid 0x20<link>
            ether fa:16:3e:c2:55:4c txqueuelen 1000 (Ethernet)
            RX packets 0 bytes 0 (0.0 B)
            RX errors 0 dropped 0 overruns 0 frame 0
            TX packets 13 bytes 990 (990.0 B)
            TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

qr-ac5c441c-0d: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1450
    inet 12.0.2.1 netmask 255.255.255.0 broadcast 12.0.2.255
        inet6 fe80::f816:3eff:fe82:264d prefixlen 64 scopeid 0x20<link>
            ether fa:16:3e:82:26:4d txqueuelen 1000 (Ethernet)
            RX packets 0 bytes 0 (0.0 B)
            RX errors 0 dropped 0 overruns 0 frame 0
            TX packets 13 bytes 990 (990.0 B)
            TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

[root@openstack ~]#
[root@openstack ~]# exit
exit
[root@openstack ~]# ip netns exec
qrouter-3193e047-6653-4c85-8c2a-ca981a5ced14 bash
[root@openstack ~]# ping 12.0.2.1
PING 12.0.2.1 (12.0.2.1) 56(84) bytes of data.
64 bytes from 12.0.2.1: icmp_seq=1 ttl=64 time=0.052 ms
```

```
64 bytes from 12.0.2.1: icmp_seq=2 ttl=64 time=0.041 ms
64 bytes from 12.0.2.1: icmp_seq=3 ttl=64 time=0.034 ms
^C
--- 12.0.2.1 ping statistics ---
3 packets transmitted, 3 received, 0% packet loss, time 2001ms
rtt min/avg/max/mdev = 0.034/0.042/0.052/0.009 ms
[root@openstack ~]# ping 11.0.1.1
PING 11.0.1.1 (11.0.1.1) 56(84) bytes of data.
64 bytes from 11.0.1.1: icmp_seq=1 ttl=64 time=0.045 ms
64 bytes from 11.0.1.1: icmp_seq=2 ttl=64 time=0.046 ms
64 bytes from 11.0.1.1: icmp_seq=3 ttl=64 time=0.052 ms
^C
--- 11.0.1.1 ping statistics ---
3 packets transmitted, 3 received, 0% packet loss, time 2001ms
rtt min/avg/max/mdev = 0.045/0.047/0.052/0.008 ms
[root@openstack ~]# ping 8.8.8.
ping: 8.8.8.: Name or service not known
[root@openstack ~]# ping 8.8.8.8
connect: Network is unreachable
```

The screenshot shows the Red Hat OpenStack Platform dashboard with the URL 192.168.43.186/dashboard/project/security_groups/. The main navigation bar includes Project, Compute, Volumes, and Network tabs. Under the Network tab, there are sub-options: Network Topology, Networks, Routers, Security Groups (which is currently selected), Floating IPs, and Trunks. The left sidebar shows Project / Network / Security Groups. The main content area displays a table of security groups:

<input type="checkbox"/>	Name	Security Group ID	Description	Actions
<input type="checkbox"/>	default	e35cb510-0556-4981-ae36-8d3a6daba8a7	Default security group	Manage Rules

Below the table, it says "Displaying 1 item".

The screenshot shows the Red Hat OpenStack Platform dashboard with the URL 192.168.43.186/dashboard/project/security_groups/create/. A modal dialog box titled "Create Security Group" is open. It has fields for "Name" (containing "lwsecuritygroup") and "Description". The "Description" field contains the text: "Security groups are sets of IP filter rules that are applied to network interfaces of a VM. After the security group is created, you can add rules to the security group." At the bottom of the dialog are "Cancel" and "Create Security Group" buttons.

Security Groups - OpenStack Dashboard | multi-hybrid cloud - Google Drive | Untitled document - Google Docs | 13thJuly2020 - Google Drive | Untitled document - Google Docs | +

Not secure | 192.168.43.186/dashboard/project/security_groups/

RED HAT OPENSTACK PLATFORM Project Identity

Project Compute Volumes Network

Network Topology Networks Routers Security Groups Floating IPs Trunks

Success: Successfully created security group: lwsecuritygroup

Project / Network / Security Groups

Security Groups

Filter + Create Security Group Delete Security Groups

Displaying 2 items

<input type="checkbox"/>	Name	Security Group ID	Description	Actions
<input type="checkbox"/>	default	e35cb510-0556-4981-ae36-8d3a6daba8a7	Default security group	<button>Manage Rules</button>
<input type="checkbox"/>	lwsecuritygroup	f3a76590-eb55-455f-9be8-49aa4d819f53		<button>Manage Rules</button>

Displaying 2 items

192.168.43.186/dashboard/project/security_groups/create/

Type here to search

Project Compute Volumes Network

Network Topology Networks Routers Security Groups Floating IPs Trunks

Project / Network / Security Groups / Manage Security Group Rule...

Manage Security Group Rules: lwsecuritygroup (f3a76590-eb55-455f-9be8-49aa4d819f53)

+ Add Rule Delete Rules

Displaying 2 items

<input type="checkbox"/>	Direction	Ether Type	IP Protocol	Port Range	Remote IP Prefix	Remote Security Group	Actions
<input type="checkbox"/>	Egress	IPv4	Any	Any	0.0.0.0/0	-	<button>Delete Rule</button>
<input type="checkbox"/>	Egress	IPv6	Any	Any	::/0	-	<button>Delete Rule</button>

Displaying 2 items

192.168.43.186/dashboard/project/security_groups/f3a76590-eb55-455f-9be8-49aa4d819f53/

Type here to search

The screenshot shows a web browser window with multiple tabs open. The active tab is titled "Manage Security Group Rules" and displays a "Network Topology" view for a project named "f3a7659". On the left, there's a sidebar with "Direction" filters for Ingress, Egress, and Egress. The main area shows two items under "Displaying 2 items". A modal dialog titled "Add Rule" is open in the center. It has fields for "Rule *": "ALL ICMP", "Direction": "Ingress", "Remote *": "CIDR" (with value "0.0.0.0/0"). To the right of the dialog is a "Description" section and an "Actions" panel with three "Delete Rule" buttons.

Add Rule

Rule * ALL ICMP

Direction Ingress

Remote * CIDR 0.0.0.0/0

Description:

Rules define which traffic is allowed to instances assigned to the security group. A security group rule consists of three main parts:

Rule: You can specify the desired rule template or use custom rules, the options are Custom TCP Rule, Custom UDP Rule, or Custom ICMP Rule.

Open Port/Port Range: For TCP and UDP rules you may choose to open either a single port or a range of ports. Selecting the "Port Range" option will provide you with space to provide both the starting and ending ports for the range. For ICMP rules you instead specify an ICMP type and code in the spaces provided.

Remote: You must specify the source of the traffic to be allowed via this rule. You may do so either in the form of an IP address block (CIDR) or via a source group (Security Group). Selecting a security group as the source will allow any other instance in that security group access

Actions

Delete Rule Delete Rule Delete Rule

This screenshot is similar to the one above, showing the "Add Rule" dialog in a different interface. The title bar says "RED HAT OPENSTACK PLATFORM". The left sidebar shows "Project / Network / f3a7659" and "Displaying 3 items" with "Ingress" selected. The "Add Rule" dialog shows "Rule *": "SSH", "Remote *": "CIDR" (with value "0.0.0.0/0"). The "Description" and "Actions" sections are identical to the first screenshot.

Add Rule

Rule * SSH

Remote * CIDR 0.0.0.0/0

Description:

Rules define which traffic is allowed to instances assigned to the security group. A security group rule consists of three main parts:

Rule: You can specify the desired rule template or use custom rules, the options are Custom TCP Rule, Custom UDP Rule, or Custom ICMP Rule.

Open Port/Port Range: For TCP and UDP rules you may choose to open either a single port or a range of ports. Selecting the "Port Range" option will provide you with space to provide both the starting and ending ports for the range. For ICMP rules you instead specify an ICMP type and code in the spaces provided.

Remote: You must specify the source of the traffic to be allowed via this rule. You may do so either in the form of an IP address block (CIDR) or via a source group (Security Group). Selecting a security group as the source will allow any other instance in that security group access

Actions

Delete Rule Delete Rule Delete Rule

Manage Security Group Rules: [lwsecuritygroup](#) (f3a76590-eb55-455f-9be8-49aa4d819f53)

Success: Successfully added rule:
ALLOW IPv4 22/tcp from 0.0.0.0/0

+ Add Rule Delete Rules

Displaying 4 items

<input type="checkbox"/>	Direction	Ether Type	IP Protocol	Port Range	Remote IP Prefix	Remote Security Group	Actions
<input type="checkbox"/>	Egress	IPv4	Any	Any	0.0.0.0/0	-	<button>Delete Rule</button>
<input type="checkbox"/>	Egress	IPv6	Any	Any	::/0	-	<button>Delete Rule</button>
<input type="checkbox"/>	Ingress	IPv4	ICMP	Any	0.0.0.0/0	-	<button>Delete Rule</button>
<input type="checkbox"/>	Ingress	IPv4	TCP	22 (SSH)	0.0.0.0/0	-	<button>Delete Rule</button>

Displaying 4 items

Type here to search Project Help VISHESH

Security Groups - OpenStack Dashboard | multi-hybrid cloud - Google Drive | Untitled document - Google Docs | 13thJuly2020 - Google Drive | Untitled document - Google Docs | +

Project / Network / Security Groups

Security Groups

Filter + Create Security Group Delete Security Groups

Displaying 2 items

<input type="checkbox"/>	Name	Security Group ID	Description	Actions
<input type="checkbox"/>	default	e35cb510-0556-4981-ae36-8d3a6daba8a7	Default security group	<button>Manage Rules</button>
<input checked="" type="checkbox"/>	lwsecuritygroup	f3a76590-eb55-455f-9be8-49aa4d819f53		<button>Manage Rules</button> ▾

Displaying 2 items

192.168.43.186/dashboard/project/security_groups/f3a76590-eb55-455f-9be8-49aa4d819f53/

The screenshot shows a web browser window with multiple tabs open. The active tab is titled "Create Key Pair" under the "Project" section of the Red Hat OpenStack Platform dashboard. A modal dialog box is displayed, prompting for a "Key Pair Name" (with a red asterisk indicating it's required). The input field contains "linuxworldkey". To the right of the input field is a green checkmark icon. Below the input field is a descriptive text: "Key Pairs are how you login to your instance after it is launched. Choose a key pair name you will recognize. Names may only include alphanumeric characters, spaces, or dashes." At the bottom left of the modal is a "Cancel" button, and at the bottom right is a blue "Create Key Pair" button with a plus sign.

Key Pair Name *

linuxworldkey

Key Pairs are how you login to your instance after it is launched. Choose a key pair name you will recognize. Names may only include alphanumeric characters, spaces, or dashes.

Cancel

Create Key Pair

Displaying 0 items

Name ▲

No items to display.

Displaying 0 items

Type here to search

Project - OpenStack Dashboard | multi-hybrid cloud - Google Drive | Untitled document - Google Doc | 13thJuly2020 - Google Drive | Untitled document - Google Doc | +

Not secure | 192.168.43.186/dashboard/project/key_pairs

RED HAT OPENSTACK PLATFORM Project Identity

Project Help VISHESH

Displaying 0 items

Name ▲

No items to display.

Displaying 0 items

Type here to search

Project - OpenStack Dashboard | multi-hybrid cloud - Google Drive | Untitled document - Google Doc | 13thJuly2020 - Google Drive | Untitled document - Google Doc | +

Not secure | 192.168.43.186/dashboard/project/key_pairs

McAfee WebAdvisor We're scanning your download just to be safe. » Scanning...

Project Compute Volumes Network

Overview Instances Images Key Pairs

Project / Compute / Key Pairs

Key Pairs

Click here for filters.

+ Create Key Pair Import Public Key Delete Key Pairs

Displaying 1 item

Name ▲

linuxworldkey

Delete Key Pair

Displaying 1 item

linuxworldkey.pem

Show all

Type here to search

The screenshot shows the Red Hat OpenStack Platform dashboard. The top navigation bar includes tabs for Project, Compute, Volumes, and Network. The Compute tab is selected, and the Instances sub-tab is also selected. The main content area displays the title "Instances" and a search/filter section with fields for Instance ID, Filter, and Launch Instance. A table header lists columns: Instance Name, Image Name, IP Address, Flavor, Key Pair, Status, Availability Zone, Task, Power State, Time since created, and Actions. Below the table, a message says "No items to display."

The screenshot shows the Red Hat OpenStack Platform dashboard with a modal dialog titled "Launch Instance". The dialog has a sidebar with options: Details, Source, Flavor, Networks, Network Ports, Security Groups, Key Pair, Configuration, and Server Groups. The "Details" tab is active, showing fields for Instance Name (containing "myos"), Description, Availability Zone (set to "nova"), Count (set to 1), and a progress indicator showing 10% completion. A legend indicates Total Instances (10 Max) with 0 Current Usage, 1 Added, and 9 Remaining.

Instances - OpenStack Dashboard | multi hybrid cloud - Google Drive | Untitled document - Google Doc | 13thJuly2020 - Google Drive | Untitled document - Google Doc | +

Not secure | 192.168.43.186/dashboard/project/instances/

Details

Source

Flavor

Networks

Network Ports

Security Groups

Key Pair

Configuration

Server Groups

Scheduler Hints

Metadata

Instance source is the template used to create an instance. You can use an image, a snapshot of an instance (image snapshot), a volume or a volume snapshot (if enabled). You can also choose to use persistent storage by creating a new volume.

Select Boot Source

Image

Create New Volume

Yes No

Volume Size (GB) *

20

Delete Volume on Instance Delete

Yes No

Allocated

Name	Updated	Size	Type	Visibility
fedora_linux	7/13/20 7:13 PM	288.81 MB	qcow2	Private

Available 3

Select one

Click here for filters.

Show all

linuxworldkey.pem

Type here to search

O E-mail File Explorer Control Panel Task View Start Taskbar

192.168.43.186 13-07-2020

Instances - OpenStack Dashboard | multi hybrid cloud - Google Drive | Untitled document - Google Doc | 13thJuly2020 - Google Drive | Untitled document - Google Doc | +

Not secure | 192.168.43.186/dashboard/project/instances/

Details

Source

Flavor

Networks

Network Ports

Security Groups

Key Pair

Configuration

Server Groups

Scheduler Hints

Flavors manage the sizing for the compute, memory and storage capacity of the instance.

Allocated

Name	VCPUS	RAM	Total Disk	Public
m1.small	1	2 GB	20 GB	Yes

Available 6

Select one

Click here for filters.

Name	VCPUS	RAM	Total Disk	Public
m1.tiny	1	512 MB	1 GB	Yes
v.image	2	1 GB	10 GB	Yes
m1.medium	2	4 GB	40 GB	Yes
m1.large	4	8 GB	80 GB	Yes

Show all

linuxworldkey.pem

Type here to search

O E-mail File Explorer Control Panel Task View Start Taskbar

192.168.43.186 13-07-2020

Instances - OpenStack Dashboard | multi hybrid cloud - Google Drive | Untitled document - Google Doc | 13thJuly2020 - Google Drive | Untitled document - Google Doc | + | Not secure | 192.168.43.186/dashboard/project/instances/

R
P
C
Pr
Pro
Details
Source
Flavor
Networks
Network Ports
Security Groups
Key Pair
Configuration
Server Groups
Scheduler Hints

Networks provide the communication channels for instances in the cloud.

Allocated 1 Select networks from those listed below.

Network	Shared	Admin State	Status
lab1	No	Up	Active

Available 1 Select at least one network

Click here for filters.

Network	Shared	Admin State	Status
lab2	No	Up	Active

192.168.43.186/dashboard/project/instances/# Show all

linuxworldkey.pem

Type here to search

O E-mail File Explorer Task View Start 1951 ENG 13-07-2020

Instances - OpenStack Dashboard | multi hybrid cloud - Google Drive | Untitled document - Google Doc | 13thJuly2020 - Google Drive | Untitled document - Google Doc | + | Not secure | 192.168.43.186/dashboard/project/instances/

R
P
C
Pr
Pro
Details
Source
Flavor
Networks
Network Ports
Security Groups
Key Pair
Configuration
Server Groups
Scheduler Hints

Ports provide extra communication channels to your instances. You can select ports instead of networks or a mix of both.

Allocated Select ports from those listed below.

Name	Admin State	Status
Select an item from Available items below		

Available 0 Select one

Filter

Name	Admin State	Status
No available items		

192.168.43.186/dashboard/project/instances/# Show all

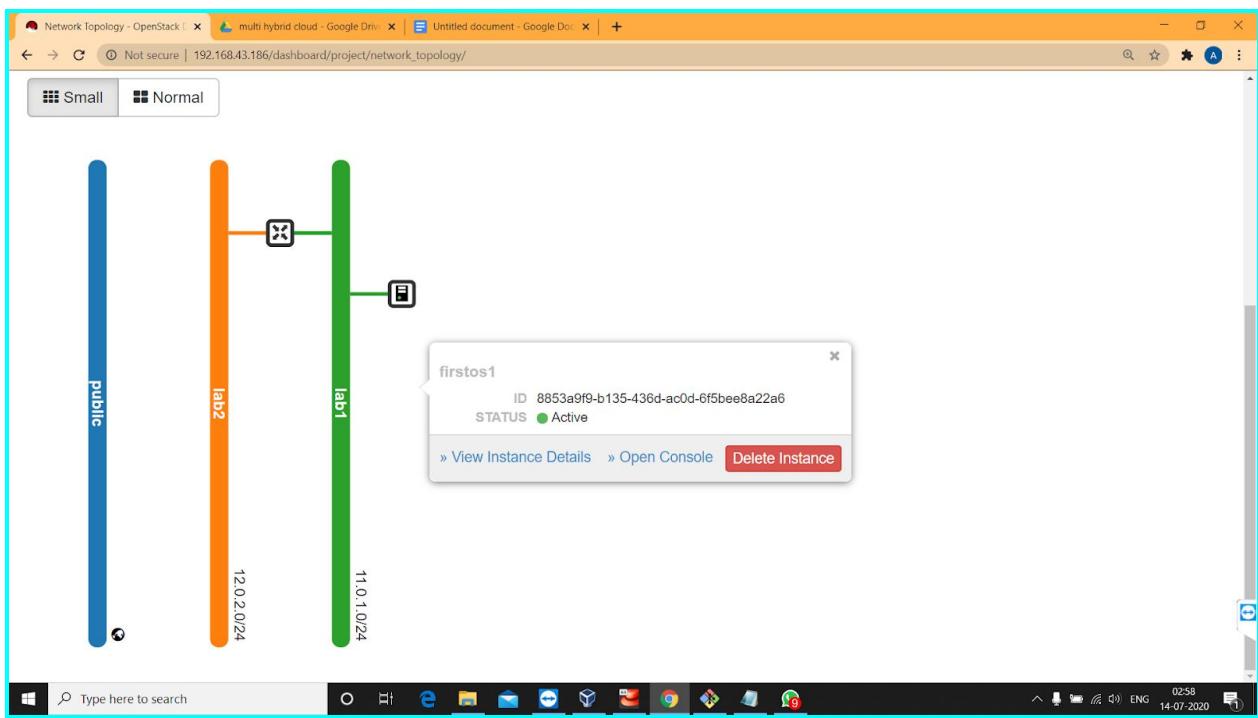
linuxworldkey.pem

Type here to search

O E-mail File Explorer Task View Start 1951 ENG 13-07-2020

The screenshot shows the OpenStack Dashboard interface for creating a new instance. The left sidebar lists various configuration options: Details, Source, Flavor, Networks, Network Ports, Security Groups (which is selected and highlighted in blue), Key Pair, Configuration, Server Groups, and Scheduler Hints. The main content area is titled "Select the security groups to launch the instance in." It shows two sections: "Allocated" (containing "lwsecuritygroup") and "Available" (containing "default"). A search bar labeled "Click here for filters." is available for the Available section. The status bar at the bottom indicates the URL as 192.168.43.186/dashboard/project/instances/#.

This screenshot shows the OpenStack Dashboard interface for creating a new instance, focusing on the Key Pair tab. The left sidebar includes the same set of configuration options as the previous screenshot. The main content area is titled "A key pair allows you to SSH into your newly created instance. You may select an existing key pair, import a key pair, or generate a new key pair." It features two buttons: "+ Create Key Pair" and "Import Key Pair". Below these buttons, the "Allocated" section displays one item named "linuxworldkey". The "Available" section shows zero items. A search bar labeled "Click here for filters." is present. The status bar at the bottom shows the URL 192.168.43.186/dashboard/project/instances/#.



```
[root@openstack ~]# ovs-vsctl show
```

```
0c0552b8-e81b-4ef4-bc3a-0b2eaac6e011
```

```
  Manager "ptcp:6640:127.0.0.1"
```

```
    is_connected: true
```

```
  Bridge br-tun
```

```
    Controller "tcp:127.0.0.1:6633"
```

```
      is_connected: true
```

```
      fail_mode: secure
```

```
      Port patch-int
```

```
        Interface patch-int
```

```
          type: patch
```

```
          options: {peer=patch-tun}
```

```
      Port br-tun
```

```
        Interface br-tun
```

```
          type: internal
```

```
  Bridge br-int
```

```
    Controller "tcp:127.0.0.1:6633"
```

```
      is_connected: true
```

```
      fail_mode: secure
```

```
      Port "qr-e2146d45-72"
```

```
        tag: 2
```

```
        Interface "qr-e2146d45-72"
```

```
    type: internal
Port "tap8e675b87-e9"
    tag: 1
    Interface "tap8e675b87-e9"
        type: internal
Port "qr-ac5c441c-0d"
    tag: 4
    Interface "qr-ac5c441c-0d"
        type: internal
Port "qg-a817bfa5-d4"
    tag: 3
    Interface "qg-a817bfa5-d4"
        type: internal
Port "tapb80a1a81-b9"
    tag: 4
    Interface "tapb80a1a81-b9"
        type: internal
Port "qr-7cb3fe1e-93"
    tag: 1
    Interface "qr-7cb3fe1e-93"
        type: internal
Port br-int
    Interface br-int
        type: internal
Port "tap298f262b-3d"
    tag: 2
    Interface "tap298f262b-3d"
        type: internal
Port patch-tun
    Interface patch-tun
        type: patch
        options: {peer=patch-int}
Port "qvo8ab0a2d8-c4"
    tag: 1
    Interface "qvo8ab0a2d8-c4"
Port int-br-ex
    Interface int-br-ex
        type: patch
        options: {peer=phy-br-ex}
```

```
Bridge br-ex
  Controller "tcp:127.0.0.1:6633"
    is_connected: true
    fail_mode: secure
Port br-ex
  Interface br-ex
    type: internal
Port phy-br-ex
  Interface phy-br-ex
    type: patch
    options: {peer=int-br-ex}
ovs_version: "2.9.0"
```

Instances - OpenStack Dashboard | multi hybrid cloud - Google Drive | Untitled document - Google Docs | +

Not secure | 192.168.43.186/dashboard/project/instances/

RED HAT OPENSTACK PLATFORM Project Identity

Project Help VISHESH

Launch Instance

Details

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.

Instance Name * os2

Description

Availability Zone nova

Total Instances (10 Max)
20%

1 Current Usage
1 Added
8 Remaining

Count * 1

Source Networks * Network Ports Security Groups Key Pair Configuration Server Groups

192.168.43.186/dashboard/project/instances/

Type here to search

03:01 14-07-2020

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Not secure | 192.168.43.186/dashboard/project/instances/

RED HAT OPENSTACK PLATFORM Project Identity

Project Help VISHESH

Launch Instance

Source

Instance source is the template used to create an instance. You can use an image, a snapshot of an instance (image snapshot), a volume or a volume snapshot (if enabled). You can also choose to use persistent storage by creating a new volume.

Select Boot Source Image **Create New Volume** Yes No

Volume Size (GB) * 20 **Delete Volume on Instance Delete** Yes No

Flavor

Networks *

Network Ports

Security Groups

Key Pair

Configuration

Server Groups

Allocated

Name	Updated	Size	Type	Visibility
fedora_linux	7/13/20 7:13 PM	288.81 MB	qcow2	Private

Available (3) Select one

Click here for filters.

192.168.43.186/dashboard/project/instances/

Type here to search

03:01 14-07-2020

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Not secure | 192.168.43.186/dashboard/project/instances/

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Project Help VISHESH

Launch Instance

Details

Flavors manage the sizing for the compute, memory and storage capacity of the instance.

Allocated

Name	VCPUS	RAM	Total Disk	Public
m1.small	1	2 GB	20 GB	Yes

Source

Flavor

Networks *

Available 6

Select one

Network Ports

Security Groups

Key Pair

Configuration

Server Groups

Cloud module update

192.168.43.186/dashboard/project/instances/

Type here to search

03:01 14-07-2020

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Not secure | 192.168.43.186/dashboard/project/instances/

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Project Help VISHESH

Launch Instance

Details

Networks provide the communication channels for instances in the cloud.

Allocated 1

Select networks from those listed below.

Network	Shared	Admin State	Status
lab2	No	Up	Active

Available 1

Select at least one network

Network Ports

Security Groups

Key Pair

Configuration

Server Groups

Scheduler Hints

Networks

Click here for filters.

Network Shared Admin State Status

lab1 No Up Active

Type here to search

03:01 14-07-2020

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Not secure | 192.168.43.186/dashboard/project/instances/

RED HAT OPENSTACK PLATFORM Project Identity Project Help VISHESH

Launch Instance

Details Select the security groups to launch the instance in.

Source

Flavor

Networks

Network Ports

Security Groups

Key Pair

Configuration

Server Groups

Scheduler Hints

Name

Allocated 1

Available 1 Select one or more

Click here for filters.

Name	Description
default	Default security group

Type here to search

03:01 14-07-2020

Instances - OpenStack Dashboard | multi hybrid cloud - Google Drive | Untitled document - Google Docs | +

Not secure | 192.168.43.186/dashboard/project/instances/

RED HAT OPENSTACK PLATFORM Project Identity Project Help VISHESH

Source

Flavor

Networks

Network Ports

Security Groups

Key Pair

Configuration

Server Groups

Scheduler Hints

Metadata

+ Create Key Pair Import Key Pair

Allocated Displaying 1 item

Name

linuxworldkey

Available 0 Select one

Click here for filters.

Displaying 0 items

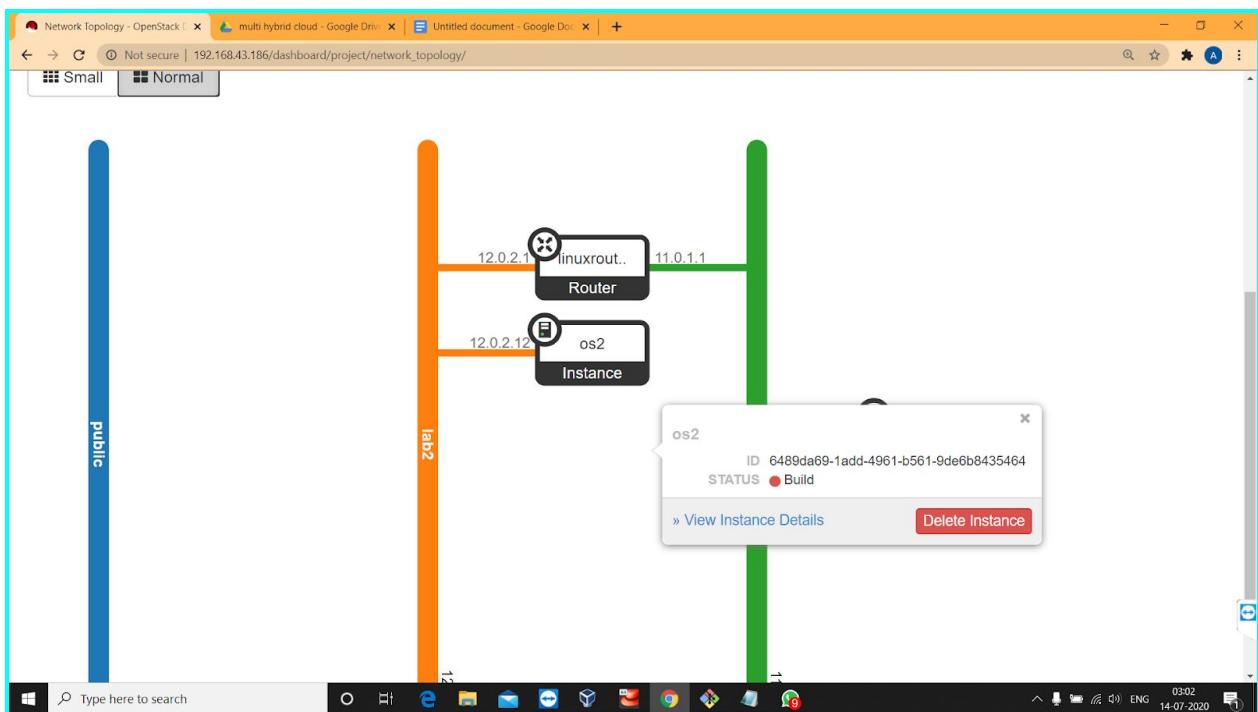
Name

No items to display.

Displaying 0 items

Type here to search

03:01 14-07-2020



Instances - OpenStack Dashboard

Not secure | 192.168.43.186/dashboard/project/instances/

RED HAT OPENSTACK PLATFORM Project Identity

Project ▾ Compute Volumes ▾ Network ▾

Overview Instances Images Key Pairs

Project / Compute / Instances

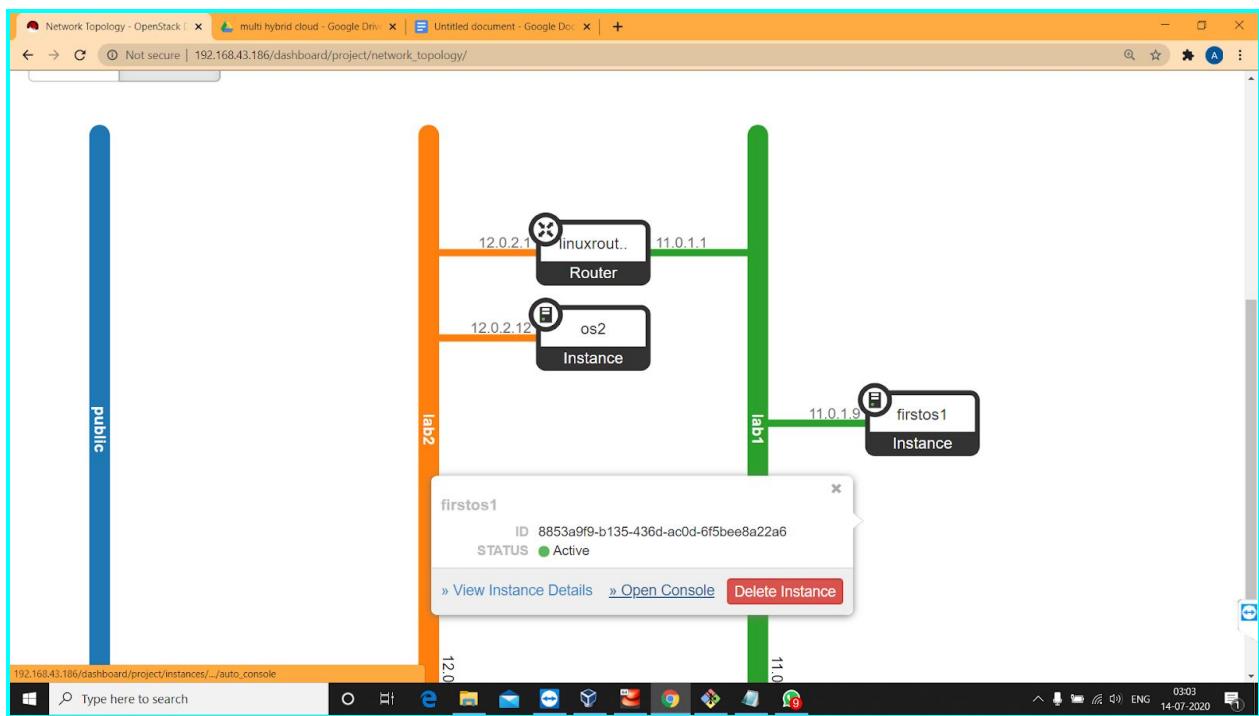
Instances

Instance ID = ▾ Filter Launch Instance Delete Instances More Actions ▾

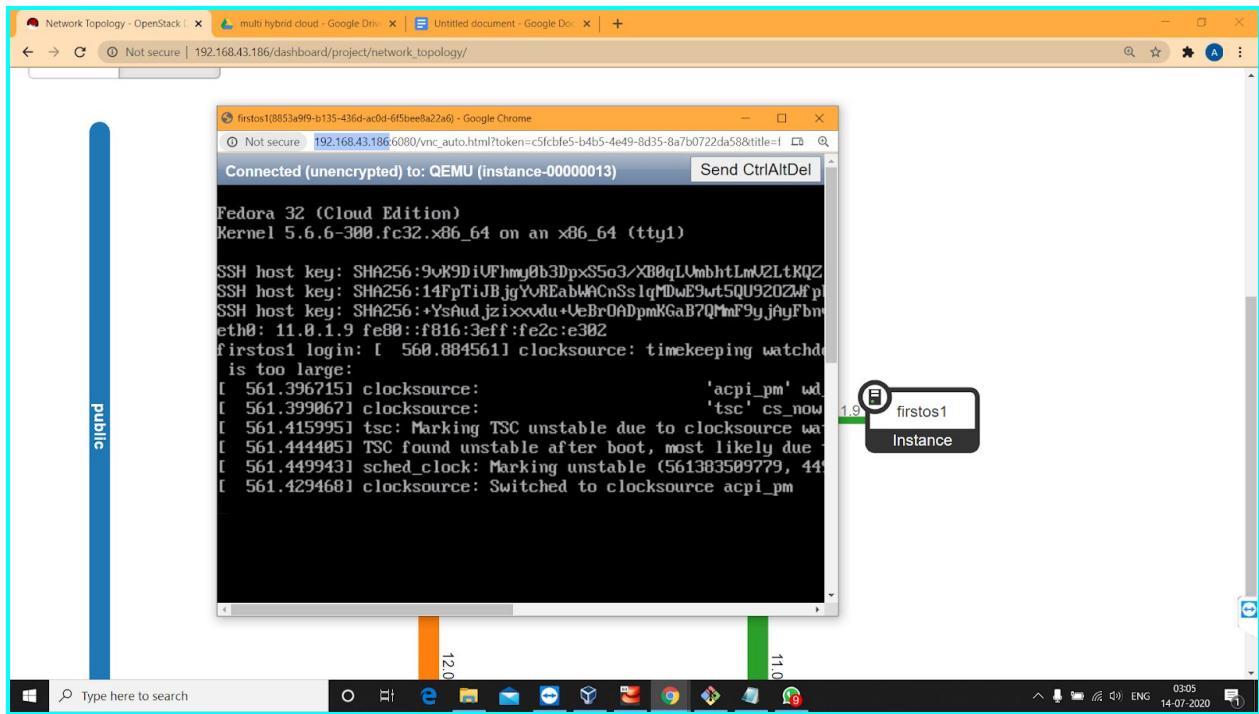
Displaying 2 items

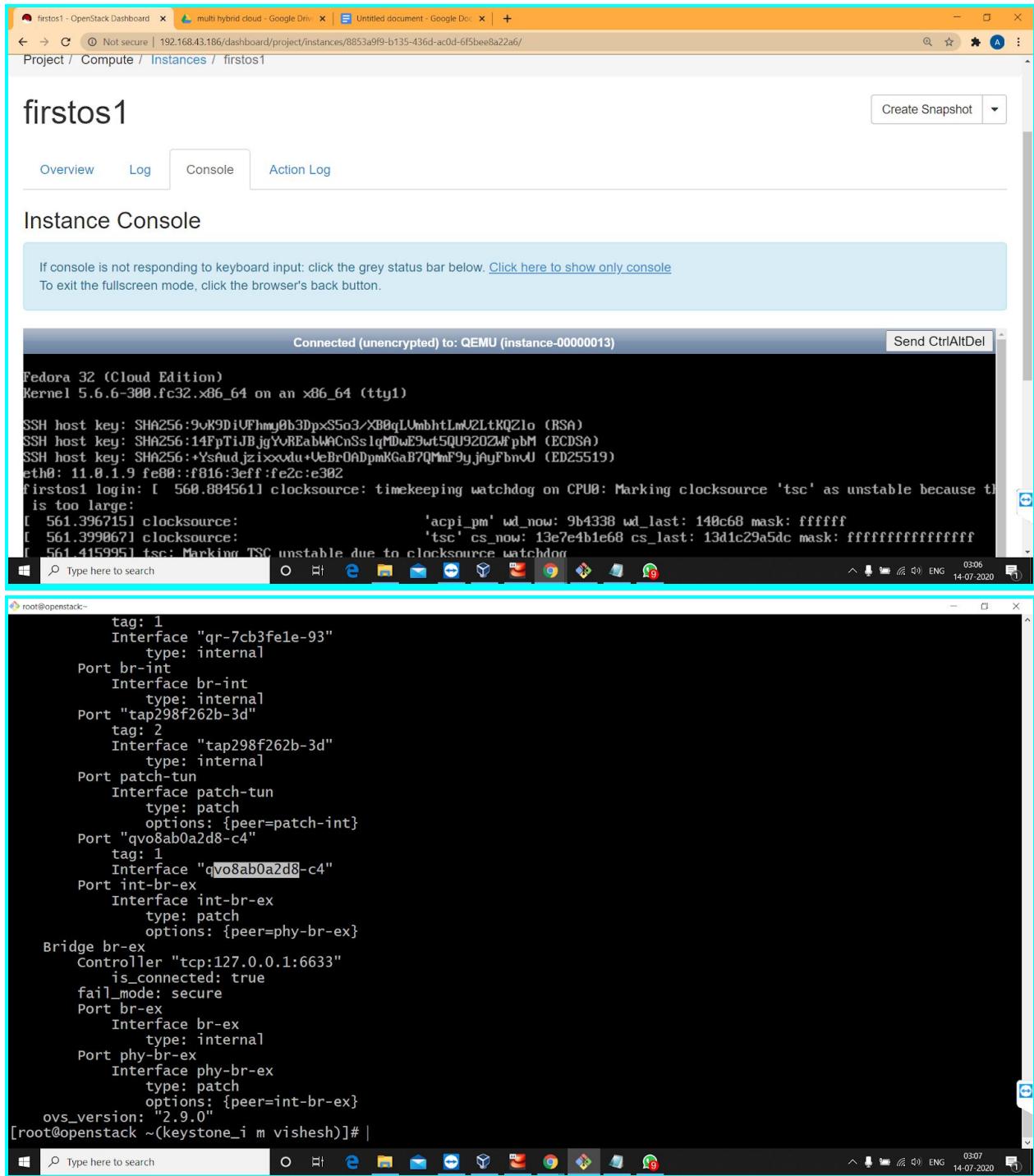
<input type="checkbox"/>	Instance Name	Image Name	IP Address	Flavor	Key Pair	Status	Availability Zone	Task	Power State	Time since created	Actions
<input type="checkbox"/>	os2	-	12.0.2.12	m1.small	linuxworldkey	Active	nova	None	Running	0 minutes	<button>Create Snapshot ▾</button>
<input type="checkbox"/>	firstos1	-	11.0.1.9	m1.small	linuxworldkey	Active	nova	None	Running	10 minutes	<button>Create Snapshot ▾</button>

Displaying 2 items



<http://192.168.43.186/>





```

root@openstack:~#
Port "qr-e2146d45-72"
    tag: 2
    Interface "qr-e2146d45-72"
        type: internal
Port "tap8e675b87-e9"
    tag: 1
    Interface "tap8e675b87-e9"
        type: internal
Port "qvo0111de17-12"
    tag: 4
    Interface "qvo0111de17-12"
Port "qr-ac5c441c-0d"
    tag: 4
    Interface "qr-ac5c441c-0d"
        type: internal
Port "qg-a817bfa5-d4"
    tag: 3
    Interface "qg-a817bfa5-d4"
        type: internal
Port "tapb80ala81-b9"
    tag: 4
    Interface "tapb80ala81-b9"
        type: internal
Port "qr-7cb3fe1e-93"
    tag: 1
    Interface "qr-7cb3fe1e-93"
        type: internal
Port br-int
    Interface br-int
        type: internal
Port "tap298f262b-3d"
    tag: 2
    Interface "tap298f262b-3d"
        type: internal

```

Windows taskbar: Type here to search, File, Open, Save, Mail, Photos, Videos, Task View, Chrome, File Explorer, Control Panel, Run, Task Manager, Start button, Search icon, Network icon, ENG, 03:07, 14-07-2020, Send CtrlAltDel


```

firstos1(8853a9f9-b135-436d-ac0d-6f5bee8a22a6) multi-hybrid cloud - Google Drive | Untitled document - Google Docs | +
Not secure | 192.168.43.186:6080/vnc_auto.html?token=74556c7b-746d-4d0a-a520-dd75d898c053&title=firstos1(8853a9f9-b135-436d-ac0d-6f5bee8a22a6)
Connected (unencrypted) to: QEMU (instance-000000013)
Send CtrlAltDel

```

Fedora 32 (Cloud Edition)
Kernel 5.6.6-300.fc32.x86_64 on an x86_64 (tty1)

```

SSH host key: SHA256:9vK9DiUFhmy0b3DpxS5o3/XB0qLWmbhtLmV2LtKQZlo (RSA)
SSH host key: SHA256:14FpTiJBjgYvREabkAcnSslqMDwE9ut5QU920ZwfpbM (ECDSA)
SSH host key: SHA256:+Yshud_jzixxxvdu+UeBr0ADpmKGaB7QMd9yJhyFbnvU (ED25519)
eth0: 11:0.1.9 fe80::f816:3eff:fe2c:e302
firstos1 login: [ 560.884561] clocksource: timekeeping watchdog on CPU0: Marking clocksource 'tsc' as unstable because the skew is too large:
[ 561.396715] clocksource: 'acpi_pm' wd_now: 9b4338 wd_last: 140c68 mask: ffffff
[ 561.399067] clocksource: 'tsc' cs_now: 13e7e4b1e68 cs_last: 13d1c29a5dc mask: ffffffffffffffff
[ 561.415995] tsc: Marking TSC unstable due to clocksource watchdog
[ 561.444485] TSC found unstable after boot, most likely due to broken BIOS. Use 'tsc=unstable'.
[ 561.449943] sched_clock: Marking unstable (561383589779, 44958440)<-(562374486643, -946007798)
[ 561.429468] clocksource: Switched to clocksource acpi_pm

firstos1 login: root
Password:
Login incorrect

firstos1 login: fedora
Password:
Login incorrect

firstos1 login:

```

Windows taskbar: Type here to search, File, Open, Save, Mail, Photos, Videos, Task View, Chrome, File Explorer, Control Panel, Run, Task Manager, Start button, Search icon, Network icon, ENG, 03:09, 14-07-2020, Send CtrlAltDel

```

[root@openstack ~](keystone_i m vishesh)]# ifconfig
enp0s3: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
    inet 192.168.43.186 netmask 255.255.255.0 broadcast 192.168.43.255
    inet6 fe80::a00:27ff:fe04:dd49 prefixlen 64 scopeid 0x20<link>
    inet6 2401:4900:3058:9bfd:a00:27ff:fe04:dd49 prefixlen 64 scopeid
0x0<global>

```

```
ether 08:00:27:04:dd:49 txqueuelen 1000 (Ethernet)
RX packets 10242 bytes 912367 (890.9 KiB)
RX errors 0 dropped 0 overruns 0 frame 0
TX packets 14814 bytes 13273967 (12.6 MiB)
TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
```

```
lo: flags=73<UP,LOOPBACK,RUNNING> mtu 65536
inet 127.0.0.1 netmask 255.0.0.0
inet6 ::1 prefixlen 128 scopeid 0x10<host>
loop txqueuelen 1000 (Local Loopback)
RX packets 1041562 bytes 1841887385 (1.7 GiB)
RX errors 0 dropped 0 overruns 0 frame 0
TX packets 1041562 bytes 1841887385 (1.7 GiB)
TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
```

```
qbr0111de17-12: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1450
ether 22:90:c3:d6:bc:77 txqueuelen 1000 (Ethernet)
RX packets 31 bytes 3002 (2.9 KiB)
RX errors 0 dropped 0 overruns 0 frame 0
TX packets 0 bytes 0 (0.0 B)
TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
```

```
qbr8ab0a2d8-c4: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1450
ether f2:9e:c0:ab:5d:6b txqueuelen 1000 (Ethernet)
RX packets 34 bytes 3180 (3.1 KiB)
RX errors 0 dropped 0 overruns 0 frame 0
TX packets 0 bytes 0 (0.0 B)
TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
```

```
qvb0111de17-12: flags=4419<UP,BROADCAST,RUNNING,PROMISC,MULTICAST>
mtu 1450
inet6 fe80::2090:c3ff:fed6:bc77 prefixlen 64 scopeid 0x20<link>
ether 22:90:c3:d6:bc:77 txqueuelen 1000 (Ethernet)
RX packets 155 bytes 18733 (18.2 KiB)
RX errors 0 dropped 0 overruns 0 frame 0
TX packets 229 bytes 21930 (21.4 KiB)
TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
```

qvb8ab0a2d8-c4: flags=4419<UP,BROADCAST,RUNNING,PROMISC,MULTICAST>

mtu 1450

```
inet6 fe80::f09e:c0ff:feab:5d6b prefixlen 64 scopeid 0x20<link>
ether f2:9e:c0:ab:5d:6b txqueuelen 1000 (Ethernet)
RX packets 369 bytes 38182 (37.2 KiB)
RX errors 0 dropped 0 overruns 0 frame 0
TX packets 446 bytes 41578 (40.6 KiB)
TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
```

qvo0111de17-12: flags=4419<UP,BROADCAST,RUNNING,PROMISC,MULTICAST>

mtu 1450

```
inet6 fe80::1410:7cff:fef8:c56e prefixlen 64 scopeid 0x20<link>
ether 16:10:7c:f8:c5:6e txqueuelen 1000 (Ethernet)
RX packets 229 bytes 21930 (21.4 KiB)
RX errors 0 dropped 0 overruns 0 frame 0
TX packets 155 bytes 18733 (18.2 KiB)
TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
```

qvo8ab0a2d8-c4: flags=4419<UP,BROADCAST,RUNNING,PROMISC,MULTICAST>

mtu 1450

```
inet6 fe80::3c90:85ff:fe15:f565 prefixlen 64 scopeid 0x20<link>
ether 3e:90:85:15:f5:65 txqueuelen 1000 (Ethernet)
RX packets 446 bytes 41578 (40.6 KiB)
RX errors 0 dropped 0 overruns 0 frame 0
TX packets 369 bytes 38182 (37.2 KiB)
TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
```

tap0111de17-12: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1450

```
inet6 fe80::fc16:3eff:fea9:dfa3 prefixlen 64 scopeid 0x20<link>
ether fe:16:3e:a9:df:a3 txqueuelen 1000 (Ethernet)
RX packets 221 bytes 21282 (20.7 KiB)
RX errors 0 dropped 0 overruns 0 frame 0
TX packets 155 bytes 18733 (18.2 KiB)
TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
```

tap8ab0a2d8-c4: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1450

```
inet6 fe80::fc16:3eff:fe2c:e302 prefixlen 64 scopeid 0x20<link>
ether fe:16:3e:2c:e3:02 txqueuelen 1000 (Ethernet)
RX packets 438 bytes 40930 (39.9 KiB)
```

```
RX errors 0 dropped 0 overruns 0 frame 0  
TX packets 370 bytes 38260 (37.3 KiB)  
TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
```

```
[root@openstack ~]# ping 12.0.2.2  
PING 12.0.2.2 (12.0.2.2) 56(84) bytes of data.  
^C  
--- 12.0.2.2 ping statistics ---  
16 packets transmitted, 0 received, 100% packet loss, time 15025ms
```

```
[root@openstack ~]# ping 11.0.1.9  
PING 11.0.1.9 (11.0.1.9) 56(84) bytes of data.  
^C  
--- 11.0.1.9 ping statistics ---  
3 packets transmitted, 0 received, 100% packet loss, time 2003ms
```

```

root@openstack:~#
RX errors 0 dropped 0 overruns 0 frame 0
TX packets 155 bytes 18733 (18.2 KiB)
TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

tap8ab0a2d8-c4: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1450
inet6 fe80::fc16:3eff:fe2c:e302 prefixlen 64 scopeid 0x20<link>
ether fe:16:3e:2c:e3:02 txqueuelen 1000 (Ethernet)
RX packets 438 bytes 40930 (39.9 KiB)
RX errors 0 dropped 0 overruns 0 frame 0
TX packets 370 bytes 38260 (37.3 KiB)
TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

[root@openstack ~]# ping 12.0.2.2
PING 12.0.2.2 (12.0.2.2) 56(84) bytes of data.
^C
--- 12.0.2.2 ping statistics ---
16 packets transmitted, 0 received, 100% packet loss, time 15025ms

[root@openstack ~]# ping 11.0.1.9
PING 11.0.1.9 (11.0.1.9) 56(84) bytes of data.
^C
--- 11.0.1.9 ping statistics ---
3 packets transmitted, 0 received, 100% packet loss, time 2003ms

[root@openstack ~]# nova list
+-----+-----+-----+-----+-----+-----+
| ID      | Name     | Status  | Task State | Power State | Networks   |
+-----+-----+-----+-----+-----+-----+
| 8853a9f9-b135-436d-ac0d-6f5bee8a22a6 | firstos1 | ACTIVE  | -          | Running    | lab1=11.0.1.9 |
| 6489da69-1add-4961-b561-9de6b8435464 | os2      | ACTIVE  | -          | Running    | lab2=12.0.2.12 |
+-----+-----+-----+-----+-----+-----+
[root@openstack ~]# ping 12.0.2.12
PING 12.0.2.12 (12.0.2.12) 56(84) bytes of data.

```

linuxrouter - OpenStack Dashboard | multi-hybrid cloud - Google Drive | Untitled document - Google Docs | +

Project | Help | VISHESH |

Project ▾ Compute ▾ Volumes ▾ Network

Network Topology Networks Routers Security Groups Floating IPs Trunks

Project / Network / Routers / linuxrouter

linuxrouter

Set Gateway ▾

Overview Interfaces Static Routes

Name	linuxrouter
ID	3193e047-6653-4c85-8c2a-ca981a5ced14
Description	
Project ID	5414bd4ec8e24e91aac673d3ab69a0b2
Status	Active
Admin State	UP
Availability Zones	• nova
External Gateway	None

```

[root@openstack ~]# ip netns exec
qrouter-3193e047-6653-4c85-8c2a-ca981a5ced14 bash
[root@openstack ~]# ifconfig
lo: flags=73<UP,LOOPBACK,RUNNING> mtu 65536
        inet 127.0.0.1 netmask 255.0.0.0
        inet6 ::1 prefixlen 128 scopeid 0x10<host>

```

```
loop txqueuelen 1000 (Local Loopback)
RX packets 0 bytes 0 (0.0 B)
RX errors 0 dropped 0 overruns 0 frame 0
TX packets 0 bytes 0 (0.0 B)
TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
```

```
qr-7cb3fe1e-93: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1450
inet 11.0.1.1 netmask 255.255.255.0 broadcast 11.0.1.255
inet6 fe80::f816:3eff:fec2:554c prefixlen 64 scopeid 0x20<link>
ether fa:16:3e:c2:55:4c txqueuelen 1000 (Ethernet)
RX packets 216 bytes 17874 (17.4 KiB)
RX errors 0 dropped 2 overruns 0 frame 0
TX packets 126 bytes 15163 (14.8 KiB)
TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
```

```
qr-ac5c441c-0d: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1450
inet 12.0.2.1 netmask 255.255.255.0 broadcast 12.0.2.255
inet6 fe80::f816:3eff:fe82:264d prefixlen 64 scopeid 0x20<link>
ether fa:16:3e:82:26:4d txqueuelen 1000 (Ethernet)
RX packets 207 bytes 17316 (16.9 KiB)
RX errors 0 dropped 7 overruns 0 frame 0
TX packets 126 bytes 15139 (14.7 KiB)
TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
```

```
[root@openstack ~]# ping 12.0.2.12
PING 12.0.2.12 (12.0.2.12) 56(84) bytes of data.
64 bytes from 12.0.2.12: icmp_seq=1 ttl=64 time=4.63 ms
64 bytes from 12.0.2.12: icmp_seq=2 ttl=64 time=3.77 ms
64 bytes from 12.0.2.12: icmp_seq=3 ttl=64 time=0.717 ms
^C
--- 12.0.2.12 ping statistics ---
3 packets transmitted, 3 received, 0% packet loss, time 2005ms
rtt min/avg/max/mdev = 0.717/3.041/4.634/1.681 ms
[root@openstack ~]# ping 11.0.1.9
PING 11.0.1.9 (11.0.1.9) 56(84) bytes of data.
64 bytes from 11.0.1.9: icmp_seq=1 ttl=64 time=12.2 ms
64 bytes from 11.0.1.9: icmp_seq=2 ttl=64 time=1.28 ms
^C
--- 11.0.1.9 ping statistics ---
```

```
2 packets transmitted, 2 received, 0% packet loss, time 1002ms
rtt min/avg/max/mdev = 1.284/6.786/12.288/5.502 ms
```

```
[root@openstack ~]# ssh 11.0.1.9
```

```
The authenticity of host '11.0.1.9 (11.0.1.9)' can't be established.
```

```
ECDSA key fingerprint is
```

```
SHA256:F+EvopstgGrIIC7b1mFHY7bWKCWeuMil59oOO8F/Q2A.
```

```
ECDSA key fingerprint is MD5:d0:90:2f:3d:9b:fb:72:f8:3b:68:28:b8:78:66:07:7d.
```

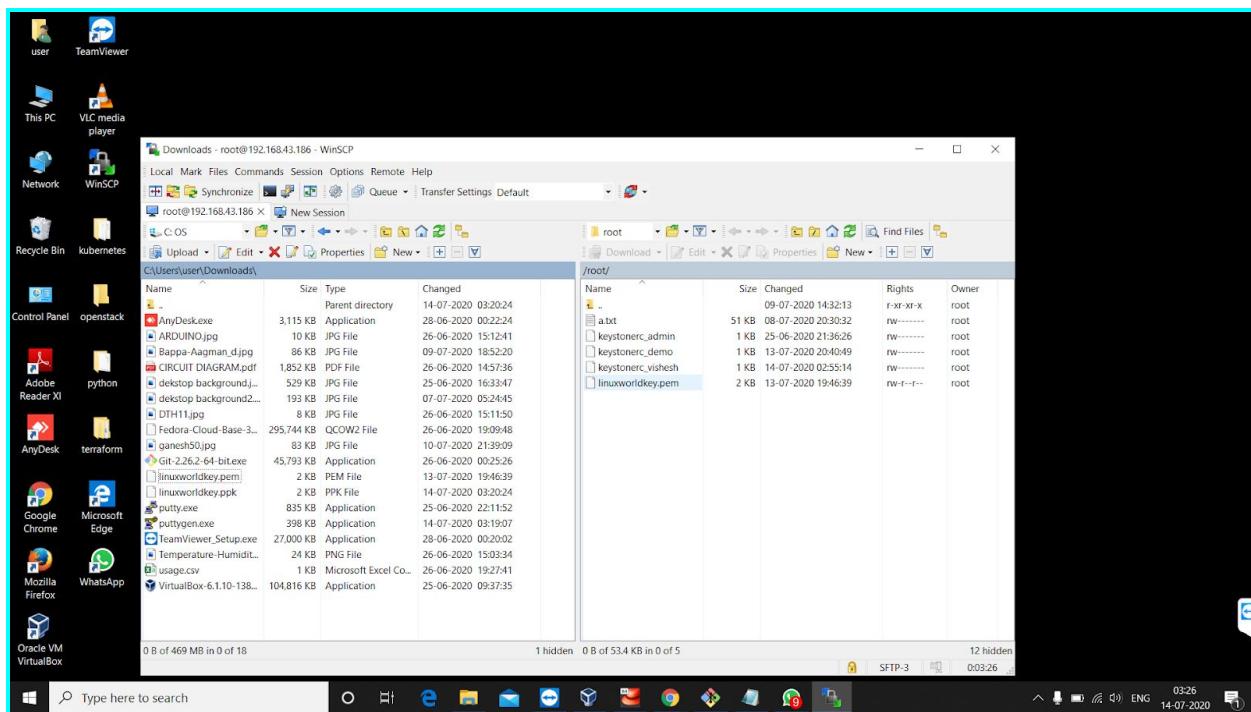
```
Are you sure you want to continue connecting (yes/no)? yes
```

```
Warning: Permanently added '11.0.1.9' (ECDSA) to the list of known hosts.
```

```
root@11.0.1.9's password:
```

```
Permission denied, please try again.
```

```
root@11.0.1.9's password:
```



```
[root@openstack ~]# ls
```

```
a.txt kestonerc_admin kestonerc_demo kestonerc_vishesh
```

```
linuxworldkey.pem
```

```
[root@openstack ~]# chmod 400 linuxworldkey.pem
```

```
[root@openstack ~]# ssh -i linuxworldkey.pem 11.0.1.9
```

```
Please login as the user "fedora" rather than the user "root".
```

```
Connection to 11.0.1.9 closed.  
[root@openstack ~](keystone_i m vishesh)]# ssh -i linuxworldkey.pem -l fedora  
11.0.1.9  
[systemd]  
Failed Units: 1  
dnf-makecache.service  
[fedora@firstos1 ~]$
```

```
[fedora@firstos1 ~]$ ifconfig  
eth0: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1450  
    inet 11.0.1.9 netmask 255.255.255.0 broadcast 11.0.1.255  
        inet6 fe80::f816:3eff:fe2c:e302 prefixlen 64 scopeid 0x20<link>  
            ether fa:16:3e:2c:e3:02 txqueuelen 1000 (Ethernet)  
                RX packets 473 bytes 55700 (54.3 KiB)  
                RX errors 0 dropped 0 overruns 0 frame 0  
                TX packets 556 bytes 58998 (57.6 KiB)  
                TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
```

```
lo: flags=73<UP,LOOPBACK,RUNNING> mtu 65536  
    inet 127.0.0.1 netmask 255.0.0.0  
        inet6 ::1 prefixlen 128 scopeid 0x10<host>  
            loop txqueuelen 1000 (Local Loopback)  
                RX packets 56 bytes 4912 (4.7 KiB)  
                RX errors 0 dropped 0 overruns 0 frame 0  
                TX packets 56 bytes 4912 (4.7 KiB)  
                TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
```

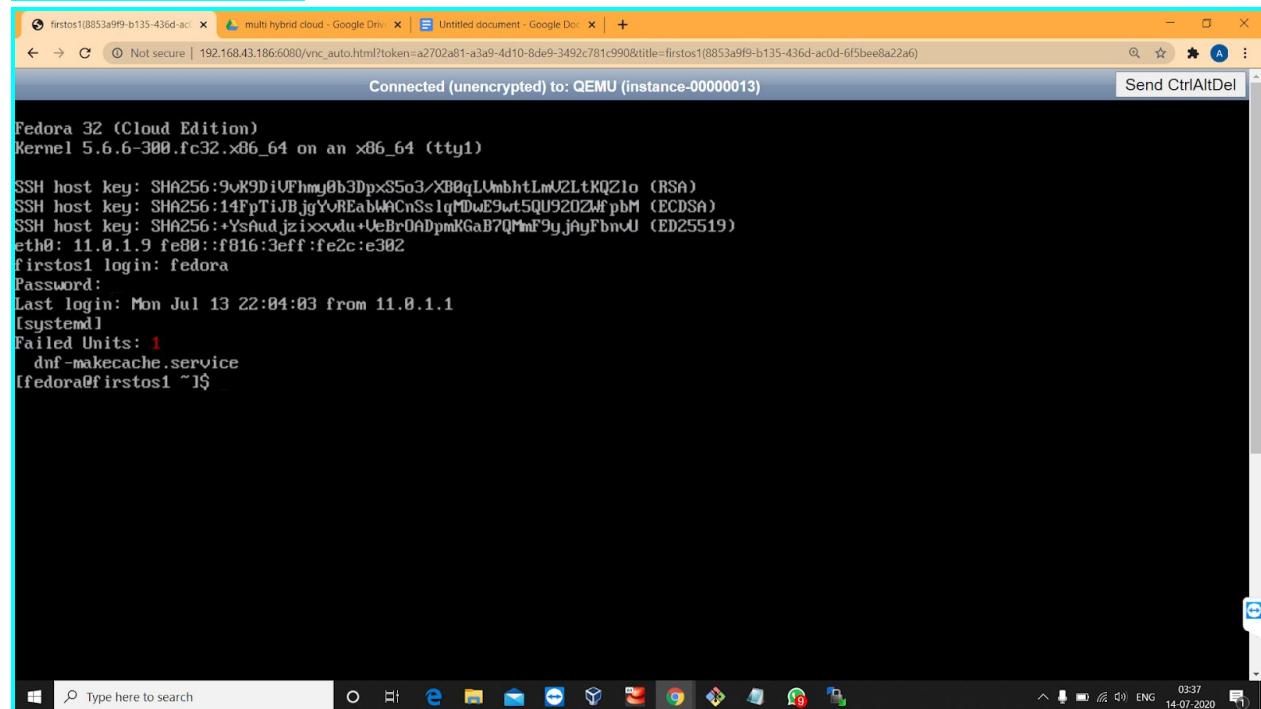
```
[fedora@firstos1 ~]$ cat /etc/passwd  
root:x:0:0:root:/root:/bin/bash  
bin:x:1:1:bin:/bin:/sbin/nologin  
daemon:x:2:2:daemon:/sbin:/sbin/nologin  
adm:x:3:4:adm:/var/adm:/sbin/nologin  
lp:x:4:7:lp:/var/spool/lpd:/sbin/nologin  
sync:x:5:0:sync:/sbin:/bin/sync  
shutdown:x:6:0:shutdown:/sbin:/sbin/shutdown  
halt:x:7:0:halt:/sbin:/sbin/halt  
mail:x:8:12:mail:/var/spool/mail:/sbin/nologin  
operator:x:11:0:operator:/root:/sbin/nologin  
games:x:12:100:games:/usr/games:/sbin/nologin
```

```
ftp:x:14:50:FTP User:/var/ftp:/sbin/nologin
nobody:x:65534:65534:Kernel Overflow User:/sbin/nologin
unbound:x:999:999:Unbound DNS resolver:/etc/unbound:/sbin/nologin
systemd-coredump:x:998:995:systemd Core Dumper:/sbin/nologin
systemd-network:x:192:192:systemd Network Management:/sbin/nologin
systemd-resolve:x:193:193:systemd Resolver:/sbin/nologin
dbus:x:81:81:System message bus:/sbin/nologin
tss:x:59:59:Account used by the trousers package to sandbox the tcsl
daemon:/dev/null:/sbin/nologin
systemd-timesync:x:997:994:systemd Time Synchronization:/sbin/nologin
chrony:x:996:993::/var/lib/chrony:/sbin/nologin
sshd:x:74:74:Privilege-separated SSH:/var/empty/sshd:/sbin/nologin
fedora:x:1000:1000:fedora Cloud User:/home/fedora:/bin/bash
[fedora@firstos1 ~]$ cat /etc/shadow
cat: /etc/shadow: Permission denied
[fedora@firstos1 ~]$ whoami
fedora
[fedora@firstos1 ~]$ sudo su - root
Last login: Mon Jul 13 22:03:30 UTC 2020 from 11.0.1.1 on pts/0
[systemd]
Failed Units: 1
dnf-makecache.service
[root@firstos1 ~]# cat /etc/shadow
root:!locked::0:99999:7:::
bin:*:18292:0:99999:7:::
daemon:*:18292:0:99999:7:::
adm:*:18292:0:99999:7:::
lp:*:18292:0:99999:7:::
sync:*:18292:0:99999:7:::
shutdown:*:18292:0:99999:7:::
halt:*:18292:0:99999:7:::
mail:*:18292:0:99999:7:::
operator:*:18292:0:99999:7:::
games:*:18292:0:99999:7:::
ftp:*:18292:0:99999:7:::
nobody:*:18292:0:99999:7:::
unbound:!18374:::::
systemd-coredump:!18374:::::
systemd-network:!18374:::::
```

```
systemd-resolve:!!:18374:::::  
dbus:!!:18374:::::  
tss:!!:18374:::::  
systemd-timesync:!!:18374:::::  
chrony:!!:18374:::::  
sshd:!!:18374:::::  
fedora:!!:18456:0:99999:7:::
```

```
[root@firstos1 ~]# passwd fedora  
Changing password for user fedora.  
New password:  
BAD PASSWORD: The password is shorter than 8 characters  
Retype new password:  
passwd: all authentication tokens updated successfully.
```

Password is fedora



```
Fedora 32 (Cloud Edition)  
Kernel 5.6.6-300.fc32.x86_64 on an x86_64 (tty1)  
  
SSH host key: SHA256:9vK9DiUFhmy0b3DpxS5o3/XB0qLWmbhtLmV2LtXQZlo (RSA)  
SSH host key: SHA256:14FpTiJBjgYvREablkCnSslqMDwE9ut5QU920ZhfpbM (ECDSA)  
SSH host key: SHA256:+YsAuJzixxxdu+UeBr0ADpmKGaBTQMmf9yjayFbnvU (ED25519)  
eth0: 11.0.1.9 fe80::f816:3eff:fe2c:e302  
firstos1 login: fedora  
Password:  
Last login: Mon Jul 13 22:04:03 from 11.0.1.1  
[systemd]  
Failed Units: 1  
  dnf-makecache.service  
If fedora@firstos1 "J$
```

```
[root@firstos1 ~]# passwd root  
Changing password for user root.  
New password:  
BAD PASSWORD: The password is shorter than 8 characters  
Retype new password:  
passwd: all authentication tokens updated successfully.
```

```
Fedor 32 (Cloud Edition)
Kernel 5.6.6-300.fc32.x86_64 on an x86_64 (tty1)

SSH host key: SHA256:9vK9DiUFhmy0b3DpxS5o3/XB0qLUMBhtLmV2LtKQZlo (RSA)
SSH host key: SHA256:14FpTiJBjgYvREabWACnSs1qMDwE9wt5QU920ZWfpbM (ECDSA)
SSH host key: SHA256:+Yshud_jzixxxvdu+UeBr0ADpmKGaB?QMmf9yJAYFBnvU (ED25519)
eth0: 11.0.1.9 fe80::f816:3eff:fe2c:e302
firstos1 login: root
Password:
Last login: Mon Jul 13 22:05:04 on pts/0
[systemd]
Failed Units: 1
  dnf-makecache.service
[root@firstos1 ~]#
```



```
Fedor 32 (Cloud Edition)
Kernel 5.6.6-300.fc32.x86_64 on an x86_64 (tty1)

SSH host key: SHA256:9vK9DiUFhmy0b3DpxS5o3/XB0qLUMBhtLmV2LtKQZlo (RSA)
SSH host key: SHA256:14FpTiJBjgYvREabWACnSs1qMDwE9wt5QU920ZWfpbM (ECDSA)
SSH host key: SHA256:+Yshud_jzixxxvdu+UeBr0ADpmKGaB?QMmf9yJAYFBnvU (ED25519)
eth0: 11.0.1.9 fe80::f816:3eff:fe2c:e302
firstos1 login: root
Password:
Last login: Mon Jul 13 22:05:04 on pts/0
[systemd]
Failed Units: 1
  dnf-makecache.service
[root@firstos1 ~]# ping 12.0.2.12
PING 12.0.2.12 (12.0.2.12) 56(84) bytes of data.
64 bytes from 12.0.2.12: icmp_seq=1 ttl=63 time=27.3 ms
64 bytes from 12.0.2.12: icmp_seq=2 ttl=63 time=1.65 ms
64 bytes from 12.0.2.12: icmp_seq=3 ttl=63 time=1.48 ms
^C
--- 12.0.2.12 ping statistics ---
3 packets transmitted, 3 received, 0% packet loss, time 2004ms
rtt min/avg/max/mdev = 1.483/10.147/27.307/12.133 ms
[root@firstos1 ~]#
```

```

firstos1(8853a9f9-b135-436d-acd...x multi hybrid cloud - Google Driv...x Untitled document - Google Doc...x + 
← → C Not secure | 192.168.43.186:6080/vnc_auto.html?token=a2702a01-a3a9-4d10-8de9-3492c781:990&title=firstos1(8853a9f9-b135-436d-acd-6f5bee8a22a6) 
SSH host key: SHA256:14Pp1J0BjYt0R6adwHChSS1qMDWE9t5U9ZU2Wt pbn (ED25519)
SSH host key: SHA256:+Yshud jzixxxdu+VeBrQADpmKGaB?QMmf9y jhyFbmU (ED25519)
eth0: 11.0.1.9 fe80::f816:3eff:fe2c:e302
firstos1 login: root
Password:
Last login: Mon Jul 13 22:05:04 on pts/0
[systemd]
Failed Units: 1
  dnf-makecache.service
[root@firstos1 ~]# ping 12.0.2.12
PING 12.0.2.12 (12.0.2.12) 56(84) bytes of data.
64 bytes from 12.0.2.12: icmp_seq=1 ttl=63 time=27.3 ms
64 bytes from 12.0.2.12: icmp_seq=2 ttl=63 time=1.65 ms
64 bytes from 12.0.2.12: icmp_seq=3 ttl=63 time=1.48 ms
^C
--- 12.0.2.12 ping statistics ---
3 packets transmitted, 3 received, 0% packet loss, time 2004ms
rtt min/avg/max/mdev = 1.483/10.147/27.307/12.133 ms
[root@firstos1 ~]# route -n
Kernel IP routing table
Destination      Gateway        Genmask        Flags Metric Ref    Use Iface
0.0.0.0          11.0.1.1      0.0.0.0        UG   100    0        0 eth0
11.0.1.0         0.0.0.0        255.255.255.0  U     100    0        0 eth0
169.254.169.254 11.0.1.1      255.255.255.255 UGH   100    0        0 eth0
[root@firstos1 ~]#

```

Instance Overview - OpenStack Project

RED HAT OPENSTACK PLATFORM Project Identity

Project ▾ Compute Volumes Network

Overview Instances Images Key Pairs

Project / Compute / Overview

Overview

Limit Summary

Resource	Used	Total
Instances	0 of 10	
VCPUs	0 of 20	
RAM	0Bytes of 50GB	

Projects

Project Name = Filter

Displaying 4 items

<input type="checkbox"/>	Name	Description	Project ID	Domain Name	Enabled	Actions
<input type="checkbox"/>	TEAM1PROJECT		5414bd4ec8e24e91aac673d3ab69a0b2	Default	Yes	<input type="button" value="Manage Members"/>
<input type="checkbox"/>	services	Tenant for the openstack services	a4cabb7b790a4dbca97b5b30239ede09	Default	Yes	<input type="button" value="Manage Members"/>
<input type="checkbox"/>	demo	default tenant	b5a44a86c0b94aceab92aac453f880d	Default	Yes	<input type="button" value="Manage Members"/>
<input type="checkbox"/>	admin	admin tenant	ca8a1f044fae436fbc0c8a4faff6321e	Default	Yes	<input type="button" value="Manage Members"/>

Displaying 4 items

Project Details - OpenStack Dashboard | multi-hybrid cloud - Google Drive | Untitled document - Google Docs | +
 192.168.43.186/dashboard/identity/5414bd4ec8e24e91aac673d3ab69a0b2/detail/
 Type here to search 03:43 14-07-2020

RED HAT OPENSTACK PLATFORM Project Admin Identity Project Help admin
 Identity
 Projects Users Groups Roles
 Identity / Projects / TEAM1PROJECT
 TEAM1PROJECT

Project Name: TEAM1PROJECT
 Project ID: 5414bd4ec8e24e91aac673d3ab69a0b2
 Enabled: Yes
 Description: None

192.168.43.186/dashboard/identity/5414bd4ec8e24e91aac673d3ab69a0b2/update/step-update_members/
 Type here to search 03:43 14-07-2020

Project Details - OpenStack Dash | multi hybrid cloud - Google Drive | Untitled document - Google Docs | +

Not secure | 192.168.43.186/dashboard/identity/5414bd4ec8e24e91aac673d3ab69a0b2/detail/

Project Information * Project Members Project Groups Quotas *

admin

RED HAT O

Identity

Projects

Identity /

TEA

Project Name

Project ID

Enabled

Description

All Users Filter

manilav2

glance

cinder

manila

placement

nova

neutron

Project Members Filter

VISHESH member

demo member

Type here to search

03:43 14-07-2020

Instance Overview - OpenStack Dash | multi hybrid cloud - Google Drive | Untitled document - Google Docs | +

Not secure | 192.168.43.186/dashboard/project/

Overview

Limit Summary

Instances

Used 2 of 10

Floating IPs

Allocated 0 of 3

VCPUUs

Used 2 of 10

Security Groups

Used 2 of 10

RAM

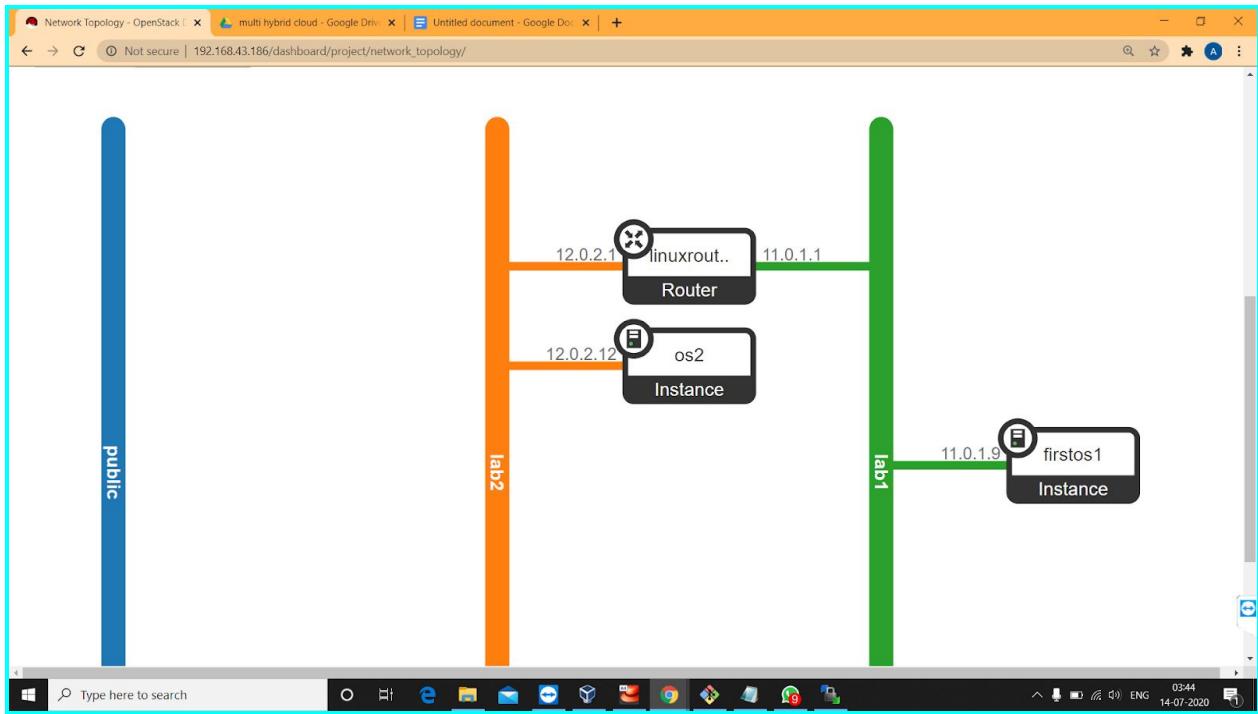
Used 4GB of 50GB

Volumes

Used 2 of 10

Type here to search

03:44 14-07-2020



```

[root@firstos1 ~]# ping 12.0.2.12
PING 12.0.2.12 (12.0.2.12) 56(84) bytes of data.
64 bytes from 12.0.2.12: icmp_seq=1 ttl=63 time=27.3 ms
64 bytes from 12.0.2.12: icmp_seq=2 ttl=63 time=1.65 ms
64 bytes from 12.0.2.12: icmp_seq=3 ttl=63 time=1.48 ms
^C
--- 12.0.2.12 ping statistics ---
3 packets transmitted, 3 received, 0% packet loss, time 2004ms
rtt min/avg/max/mdev = 1.483/10.147/27.307/12.133 ms
[root@firstos1 ~]# route -n
Kernel IP routing table
Destination      Gateway        Genmask        Flags Metric Ref    Use Iface
0.0.0.0          11.0.1.1      0.0.0.0        UG    100    0        0 eth0
11.0.1.0          0.0.0.0       255.255.255.0   U     100    0        0 eth0
169.254.169.254 11.0.1.1      255.255.255.255 UGH   100    0        0 eth0
[root@firstos1 ~]# ping 8.8.8.8
PING 8.8.8.8 (8.8.8.8) 56(84) bytes of data.
From 11.0.1.1 icmp_seq=1 Destination Net Unreachable
From 11.0.1.1 icmp_seq=2 Destination Net Unreachable
From 11.0.1.1 icmp_seq=3 Destination Net Unreachable
From 11.0.1.1 icmp_seq=4 Destination Net Unreachable
^C
--- 8.8.8.8 ping statistics ---
5 packets transmitted, 0 received, 100% packet loss, time 4011ms

```

```

[root@openstack ~]# ping 8.8.8.8
PING 8.8.8.8 (8.8.8.8) 56(84) bytes of data.
64 bytes from 8.8.8.8: icmp_seq=1 ttl=114 time=58.8 ms
64 bytes from 8.8.8.8: icmp_seq=2 ttl=114 time=80.6 ms
^C
--- 8.8.8.8 ping statistics ---

```

2 packets transmitted, 2 received, 0% packet loss, time 1001ms

rtt min/avg/max/mdev = 58.859/69.745/80.632/10.889 ms

>host only setup

>bridge setup

```
root@openstack:~$ logout
[fedora@firstos1 ~]$ exit
logout
Connection to 11.0.1.9 closed.
[root@openstack ~](keystone_j m vishesh)]# exi
bash: exi: command not found
[root@openstack ~](keystone_i m vishesh)]# exit
exit
[root@openstack ~](keystone_i m vishesh)]# exit
logout
Connection to 192.168.43.186 closed.

user@LAPTOP-BS1QHHQL MINGW64 ~/Desktop (master)
$ ssh root@192.168.43.186
root@192.168.43.186's password:
Last login: Tue Jul 14 02:35:26 2020 from laptop-bs1qhhql
[root@openstack ~]# ping 8.8.8.8
PING 8.8.8.8 (8.8.8.8) 56(84) bytes of data.
64 bytes from 8.8.8.8: icmp_seq=1 ttl=114 time=58.8 ms
64 bytes from 8.8.8.8: icmp_seq=2 ttl=114 time=80.6 ms
^C
--- 8.8.8.8 ping statistics ---
2 packets transmitted, 2 received, 0% packet loss, time 1001ms
rtt min/avg/max/mdev = 58.859/69.745/80.632/10.889 ms
[root@openstack ~]# route -n
Kernel IP routing table
Destination     Gateway         Genmask        Flags Metric Ref    Use Iface
0.0.0.0         192.168.43.1   0.0.0.0       UG    0      0        0 enp0s3
169.254.0.0     0.0.0.0        255.255.0.0   U     1002   0        0 enp0s3
192.168.43.0    0.0.0.0        255.255.255.0 U     0      0        0 enp0s3
[root@openstack ~]#
```

```
root@openstack:~$ TX packets 389 bytes 39709 (38.7 Kib)
TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

qvo8ab0a2d8-c4: flags=4419<UP,BROADCAST,RUNNING,PROMISC,MULTICAST> mtu 1450
inet6 fe80::3c90:85ff:fe15:f565 prefixlen 64 scopeid 0x20<link>
ether 3e:90:85:15:f5:65 txqueuelen 1000 (Ethernet)
RX packets 835 bytes 90944 (88.8 Kib)
RX errors 0 dropped 0 overruns 0 frame 0
TX packets 896 bytes 90222 (88.1 Kib)
TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

tap0111de17-12: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1450
inet6 fe80::fc16:3eff:fea9:dfa3 prefixlen 64 scopeid 0x20<link>
ether fe:16:3e:a9:df:a3 txqueuelen 1000 (Ethernet)
RX packets 458 bytes 42468 (41.4 Kib)
RX errors 0 dropped 0 overruns 0 frame 0
TX packets 389 bytes 39709 (38.7 Kib)
TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

tap8ab0a2d8-c4: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1450
inet6 fe80::fc16:3eff:fe2c:e302 prefixlen 64 scopeid 0x20<link>
ether fe:16:3e:2c:e3:02 txqueuelen 1000 (Ethernet)
RX packets 827 bytes 90296 (88.1 Kib)
RX errors 0 dropped 0 overruns 0 frame 0
TX packets 897 bytes 90300 (88.1 Kib)
TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

[root@openstack ~]# cat /etc/resolv.conf
; generated by /usr/sbin/dhclient-script
nameserver 192.168.43.1
[root@openstack ~]#
```

```

root@openstack:~# ifconfig
TX packets 389 bytes 39709 (38.7 Kib)
TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

qvo8ab0a2d8-c4: flags=4419<UP,BROADCAST,RUNNING,PROMISC,MULTICAST> mtu 1450
    inet6 fe80::3c90:85ff:fe15:f565 prefixlen 64 scopeid 0x20<link>
        ether 3e:90:85:15:f5:65 txqueuelen 1000 (Ethernet)
            RX packets 835 bytes 90944
            RX errors 0 dropped 0 overruns 0 frame 0
            TX packets 896 bytes 90224
            TX errors 0 dropped 0 overruns 0 frame 0

tap0111de17-12: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1450
    inet6 fe80::fc16:3eff:fea9:df:a3 prefixlen 64 scopeid 0x20<link>
        ether fe:16:3e:a9:df:a3 txqueuelen 1000 (Ethernet)
            RX packets 458 bytes 42400
            RX errors 0 dropped 0 overruns 0 frame 0
            TX packets 389 bytes 39709
            TX errors 0 dropped 0 overruns 0 frame 0

tap8ab0a2d8-c4: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1450
    inet6 fe80::fc16:3eff:fe2c:e302 prefixlen 64 scopeid 0x20<link>
        ether fe:16:3e:2c:e3:02 txqueuelen 1000 (Ethernet)
            RX packets 827 bytes 90296 (88.1 Kib)
            RX errors 0 dropped 0 overruns 0 frame 0
            TX packets 897 bytes 90300 (88.1 Kib)
            TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

[root@openstack ~]# cat /etc/resolv.conf
; generated by /usr/sbin/dhclient-script
nameserver 192.168.43.1
[root@openstack ~]# 

Windows Taskbar: Type here to search, File Explorer, Mail, Edge, File History, Task View, Taskbar icons, Language: ENG, Date: 14-07-2020, Time: 02:55

root@openstack:~# ovs-vsctl show
Port br-int
  Interface br-int
    type: internal
Port "tap298f262b-3d"
  tag: 2
  Interface "tap298f262b-3d"
    type: internal
Port patch-tun
  Interface patch-tun
    type: patch
    options: {peer=patch-int}
Port "qvo8ab0a2d8-c4"
  tag: 1
  Interface "qvo8ab0a2d8-c4"
Port int-br-ex
  Interface int-br-ex
    type: patch
    options: {peer=phy-br-ex}
Bridge br-ex
  Controller "tcp:127.0.0.1:6633"
    is_connected: true
    fail_mode: secure
  Port br-ex
    Interface br-ex
      type: internal
  Port phy-br-ex
    Interface phy-br-ex
      type: patch
      options: {peer=int-br-ex}
  ovs_version: "2.9.0"
[root@openstack ~]# 

Windows Taskbar: Type here to search, File Explorer, Mail, Edge, File History, Task View, Taskbar icons, Language: ENG, Date: 14-07-2020, Time: 03:57

```

```

[root@openstack ~]# ifconfig br-ex
br-ex: flags=4098<BROADCAST,MULTICAST> mtu 1500
      ether 12:64:ad:c7:7f:42 txqueuelen 1000 (Ethernet)
          RX packets 0 bytes 0 (0.0 B)
          RX errors 0 dropped 8 overruns 0 frame 0
          TX packets 0 bytes 0 (0.0 B)

```

TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

```
[root@openstack ~]# dhclient -v enp0s3
Internet Systems Consortium DHCP Client 4.2.5
Copyright 2004-2013 Internet Systems Consortium.
All rights reserved.

For info, please visit https://www.isc.org/software/dhcp/
```

```
Listening on LPF/enp0s3/08:00:27:04:dd:49
Sending on  LPF/enp0s3/08:00:27:04:dd:49
Sending on  Socket/fallback
DHCPDISCOVER on enp0s3 to 255.255.255.255 port 67 interval 5
(xid=0x4a6cd114)
DHCPREQUEST on enp0s3 to 255.255.255.255 port 67 (xid=0x4a6cd114)
DHCPOFFER from 192.168.43.1
DHCPACK from 192.168.43.1 (xid=0x4a6cd114)
bound to 192.168.43.186 -- renewal in 1693 seconds.
```

```
[root@openstack ~]# ovs-vsctl add-port enp0s3 br-ex
ovs-vsctl: cannot create a port named br-ex because a bridge named br-ex
already exists
[root@openstack ~]# ovs-vsctl add-port br-ex enp0s3
```

```
TX packets 399 bytes 40501 (39.5 KiB)
TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

tap8ab0a2d8-c4: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1450
    inet6 fe80::fc16:3eff:fe2c:e302 prefixlen 64 scopeid 0x20<link>
        ether fe:16:3e:2c:e3:02 txqueuelen 1000 (Ethernet)
    RX packets 828 bytes 90366 (88.2 KiB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 897 bytes 90300 (88.1 KiB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

[root@openstack ~]# ifconfig enp0s3
enp0s3: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
    inet 192.168.43.186 netmask 255.255.255.0 broadcast 192.168.43.255
        inet6 fe80::a00:27ff:fe04:dd49 prefixlen 64 scopeid 0x20<link>
        inet6 2401:4900:3058:9bfd:a00:27ff:fe04:dd49 prefixlen 64 scopeid 0x0<global>
            ether 08:00:27:04:dd:49 txqueuelen 1000 (Ethernet)
        RX packets 40474 bytes 3108939 (2.9 MiB)
        RX errors 0 dropped 0 overruns 0 frame 0
        TX packets 69816 bytes 20604073 (19.6 MiB)
        TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

[root@openstack ~]# ovs-vsctl add-port br-ex enp0s3 ; dhclient -v br-ex
ovs-vsctl: cannot create a port named enp0s3 because a port named enp0s3 already exists on bridge br-ex
dhclient(20293) is already running - exiting.

This version of ISC DHCP is based on the release available
on ftp.isc.org. Features have been added and other changes
have been made to the base software release in order to make
it work better with this distribution.

Please report for this software via the Red Hat Bugzilla site:
  http://bugzilla.redhat.com

exiting.
[root@openstack ~]#
```

```
enp0s3: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
        inet 192.168.43.186 netmask 255.255.255.0 broadcast 192.168.43.255
        inet6 fe80::a00:27ff:fe04:dd49 prefixlen 64 scopeid 0x20<link>
        inet6 2401:4900:3058:9bfd:a00:27ff:fe04:dd49 prefixlen 64 scopeid 0x0<global>
          ether 08:00:27:04:dd:49 txqueuelen 1000 (Ethernet)
            RX packets 40474 bytes 3108939 (2.9 MiB)
            RX errors 0 dropped 0 overruns 0 frame 0
            TX packets 69816 bytes 20604073 (19.6 MiB)
            TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
```

```
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```
[root@openstack ~]# dhclient -v enp0s3
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exiting.

```
[root@openstack ~]# _
```