Meghdoot

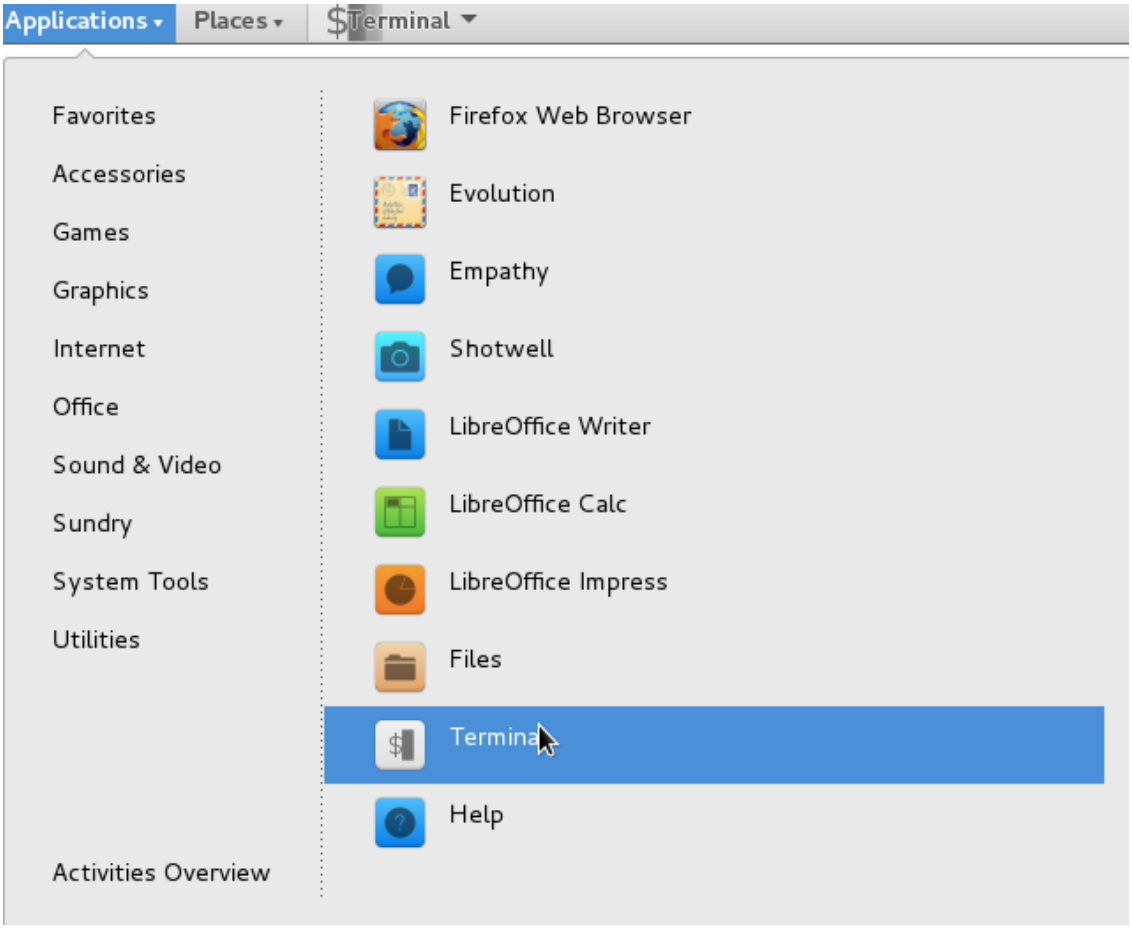
Installation Manual

Meghdoot Openstack Cloud

System Requirements:

System should have minimum 8 GB RAM and 50 GB HDD.

Open a terminal from



Give *sudo –i,*

Login as root user

Networking

Before starting the installation, make sure that the IP address is assigned properly. Make entry in /etc/network/interfaces (as static IP address).

Open */etc/network/interfaces* file

vi /etc/network/interfaces

Add the following lines

auto <interface name... Eg. eth0>

iface <interface name > inet static

address <IP address>

netmask 255.255.255.0

gateway <gateway IP>

The sample edited file would look like the following:

 # The loopback network interface

auto lo

iface lo inet loopback

auto eth0

iface eth0 inet static

address 10.184.48.124

netmask 255.255.255.0

gateway 10.184.48.1

Save and close the file.

Hostname Entry

Run

/etc/init.d/networking restart

Open */etc/hosts* file

vi /etc/hosts

Remove the line starts with *127.0.1.1*

Add the following line,

<IP_ADDRESS> <hostname>

The sample edited file would look like the following:

127.0.0.1 *localhost*

10.184.48.100 *cloud*

In terminal go to the location */opt* and give

sh openstackscript.sh

For installation and configuration of Meghdoot, the script checks for Django's auth system for that give **NO**

You have installed Django's auth system, and don't have any super users defined.
Would you like to create one now? (yes/no) : Please enter either "yes" or "no": ***no***

After successfully installation, Browser will open automatically and meghdoot openstack dashboard will appear.

User Name: admin & Password : admin

Dashboard

The dashboard is generally installed on the Controller Node.

- Host Name or Public IP address from which you can access the dashboard, and for your user name and password.
- Open a web browser that has JavaScript and cookies enabled.
- In the address bar, enter Host Name or Public IP for the dashboard, for example *https://ipAddressOrHostName/*
- On the Log In page, enter your user name and password, and click *Sign In*.

OpenStack dashboard - *Project* tab

Projects are organizational units in the cloud and are also known as tenants or accounts. Each user is a member of one or more projects. Within a project, a user creates and manages instances.

From the *Project* tab, you can view and manage the resources in a selected project, including instances and images. You can select the project from the drop-down menu at the top left. If the cloud supports multi-domain model, you can also select the domain from this menu.

Compute tab

- *Overview*: View reports for the project.
- *Instances*: View, launch, create a snapshot from, stop, pause, or reboot instances, or connect to them through VNC.
- *Volumes*: Use the following tabs to complete these tasks:
    - *Volumes*: View, create, edit, and delete volumes.
    - *Volume Snapshots*: View, create, edit, and delete volume snapshots.
- *Images*: View images and instance snapshots created by project users, plus any images that are publicly available. Create, edit, and delete images, and launch instances from images and snapshots.
- *Access & Security*: Use the following tabs to complete these tasks:
    - *Security Groups*: View, create, edit, and delete security groups and security group rules.
    - *Key Pairs*: View, create, edit, import, and delete key pairs.
    - *Floating IPs*: Allocate an IP address to or release it from a project.
    - *API Access*: View API endpoints.
- *Shares*: Use the following tabs to complete these tasks:
    - *Shares*: View, create, manage, and delete shares.
    - *Snapshots*: View, manage, and delete volume snapshots.
    - *Share Networks*: View, manage, and delete share networks.
    - *Security Services*: View, manage, and delete security services.

Network *tab*

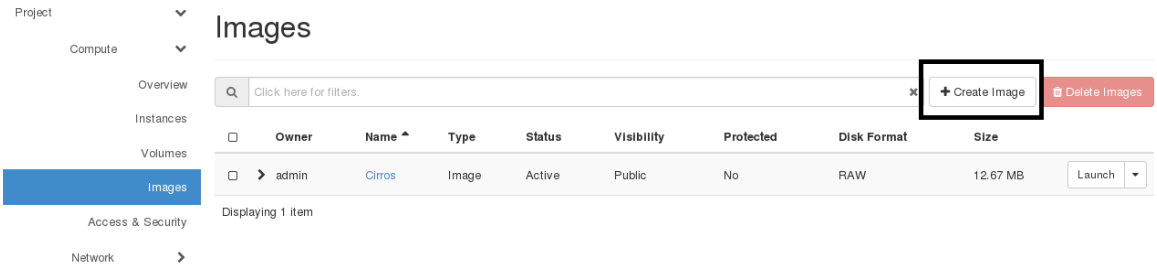
- *Network Topology*: View the network topology.
- *Networks*: Create and manage public and private networks.
- *Routers*: Create and manage routers.
- *Load Balancers*: Create and manage load balancers.
    - *Pools*: Add and manage pools.
    - *Members*: Add and manage members.
    - *Monitors*: Add and manage monitors.

- *Firewalls*: Create and manage firewalls.
    - *Firewalls*: Create and manage firewalls.
    - *Firewall Policies*: Add and manage firewall policies.
    - *Firewall Rules*: Add and manage firewall rules.

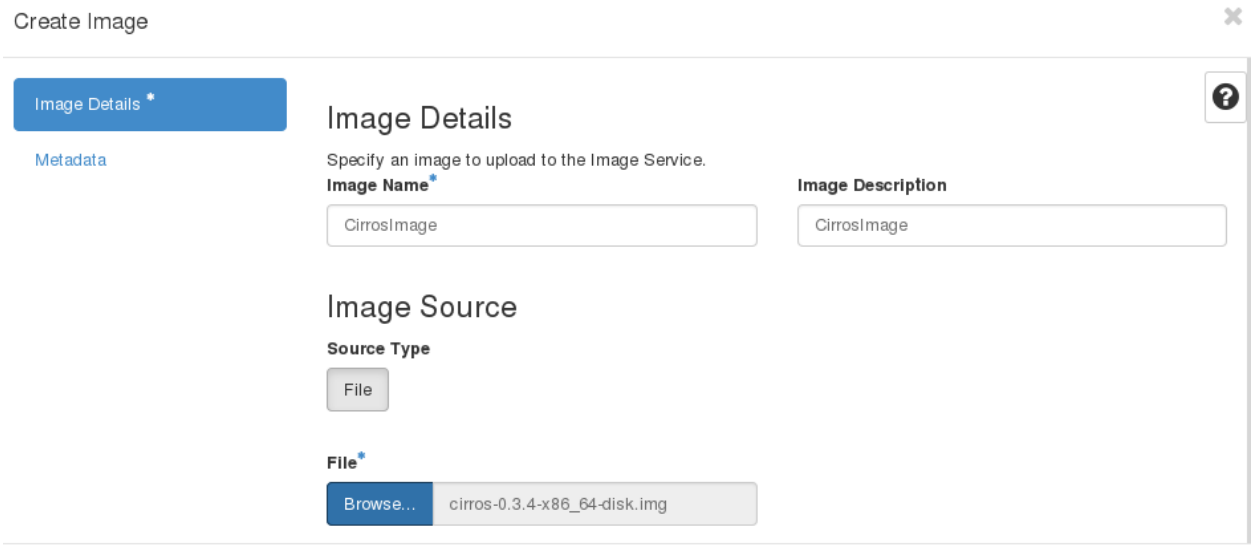
Uploading Images

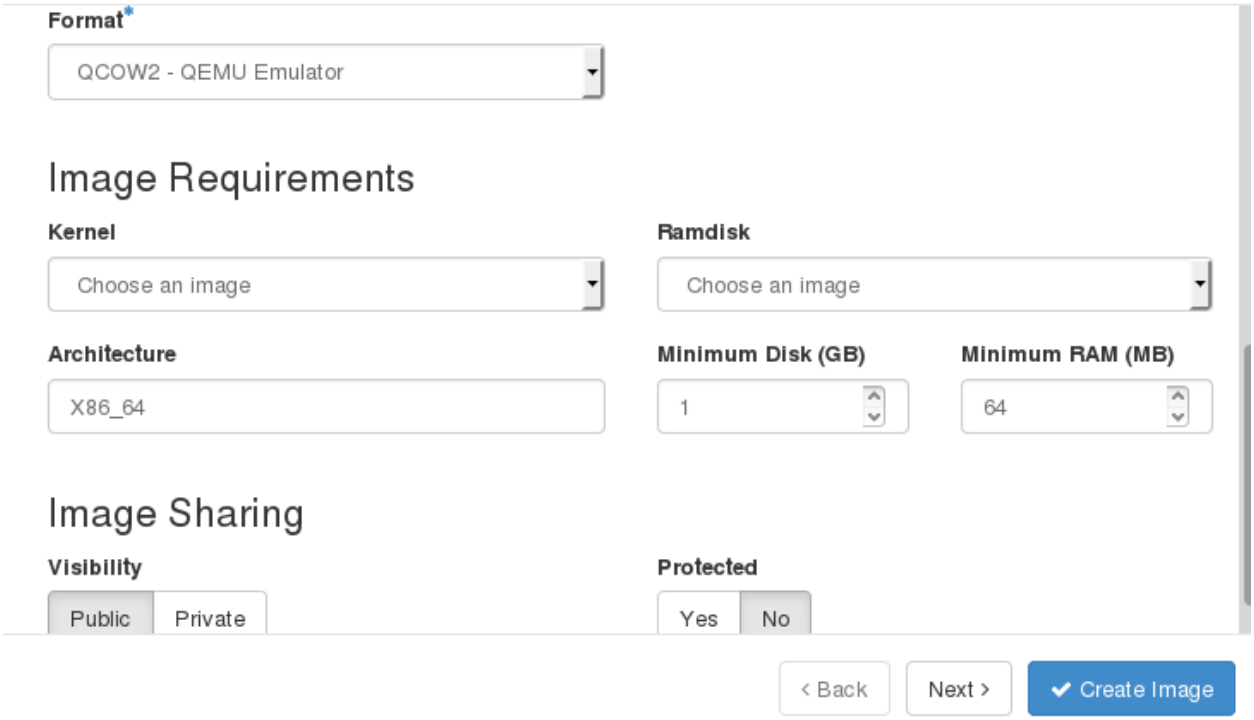
A sample image is placed in /root filename is:

Project -> compute -> images Click **Create Image** Button



Give the image name, Description, Browse the image file. From the drop down select qcow2, in Image requirements Architecture is X86_64, Minimum Disk is 1GB and Minimum RAM is 34. In Image sharing, Visibility is Public and Protected is no and click create Image.

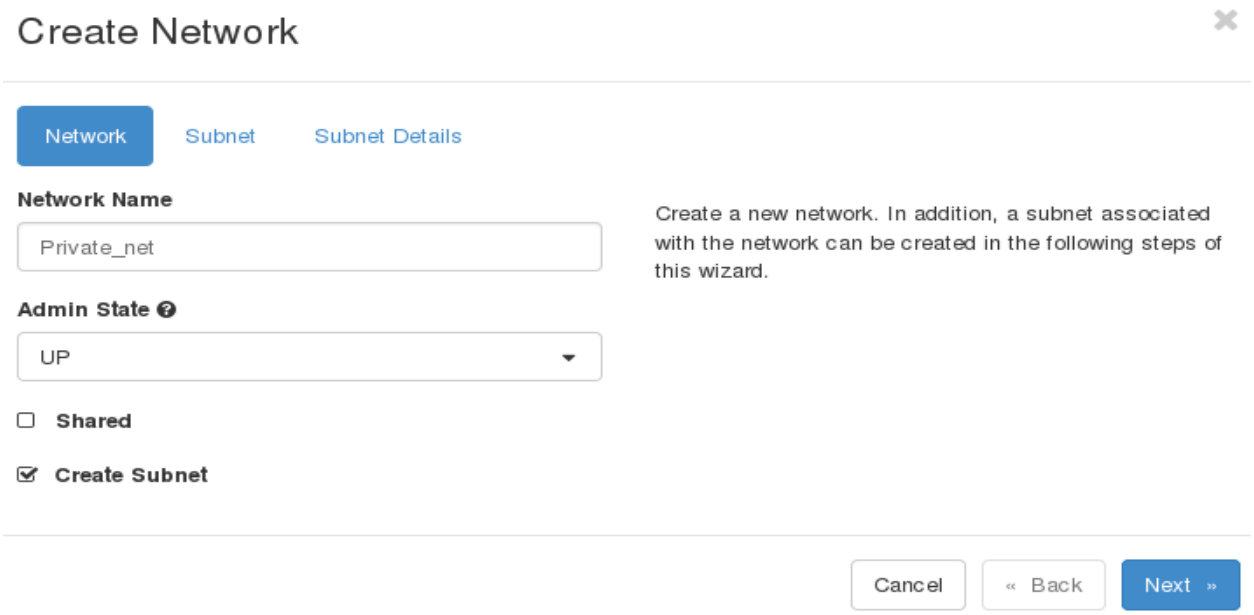




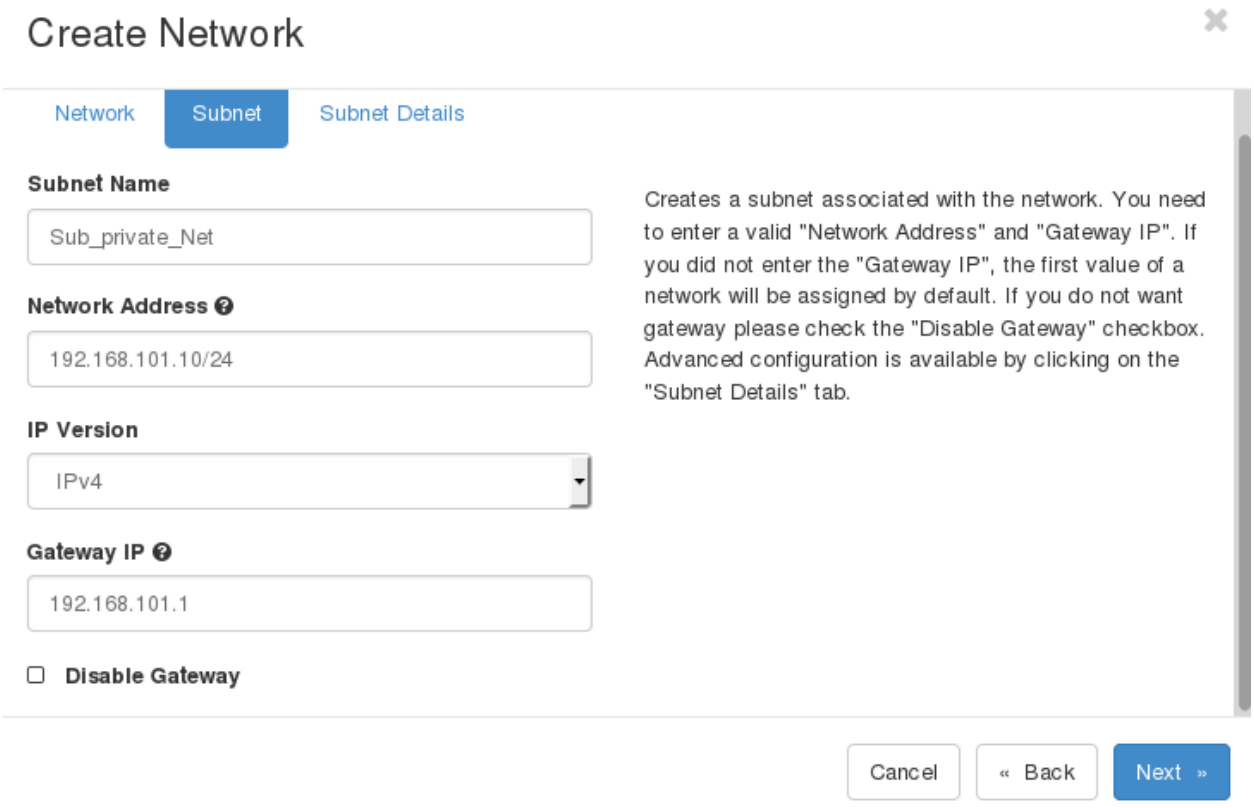
Creating Network

Project->Network-> Network Topology, Click **Create Network** Button.

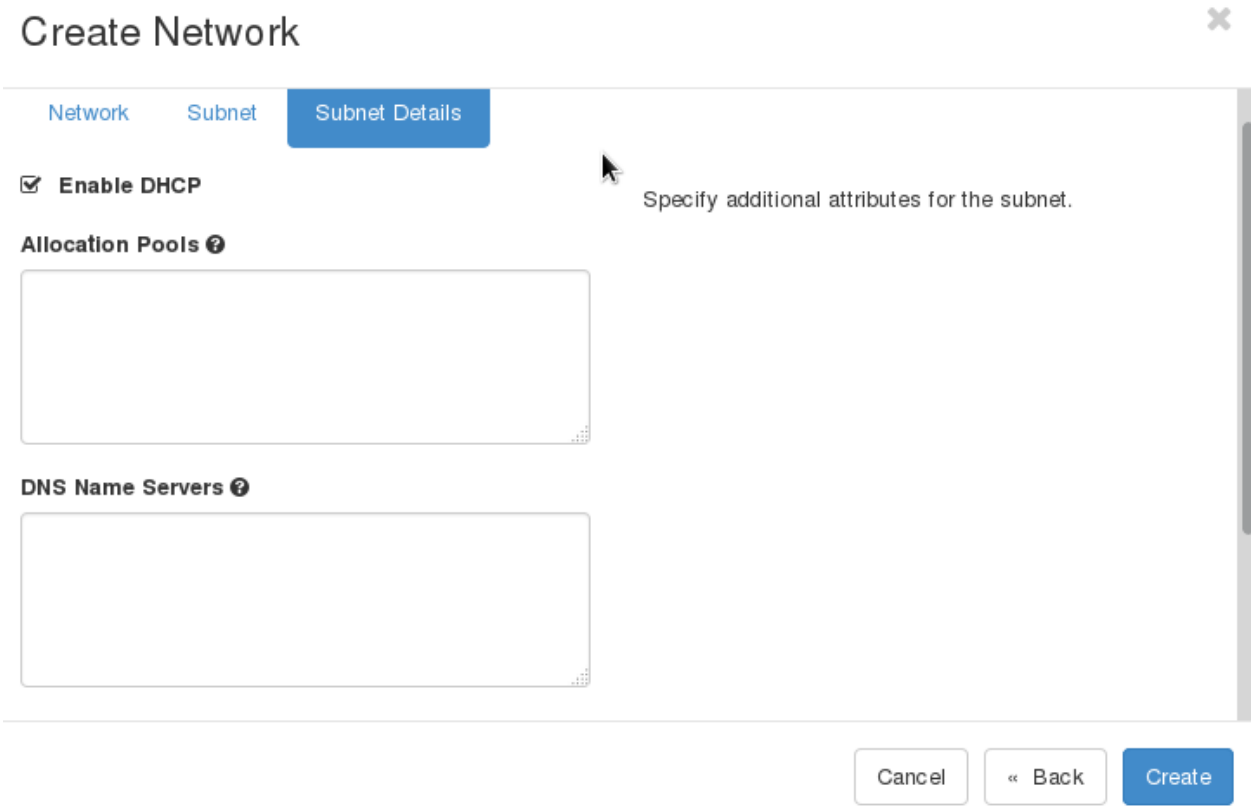
In Network tab, give the **Network Name** and Admin State is **UP** and **Click next**

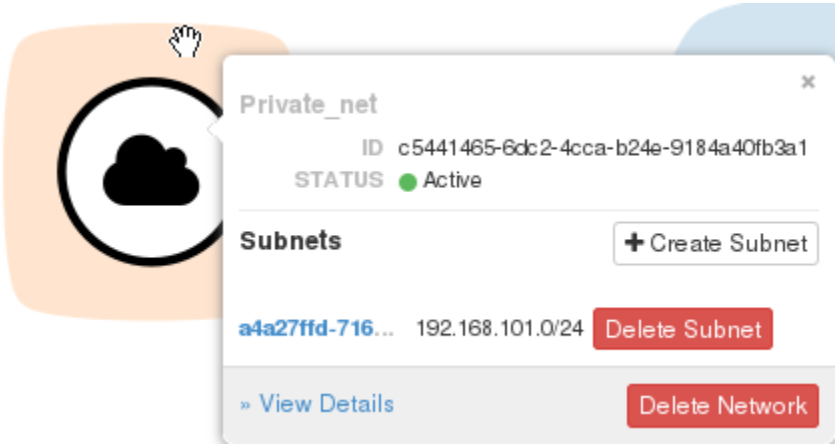


In Subnet tab, Give the Subnet Name, Network Address, Select the IP Version as IPV4 and give the gateway IP and click Next.



In Subnet Details, enable DHCP and click Create





Creating Instance

Launch Instance