

# Meghdoot

## Installation Manual

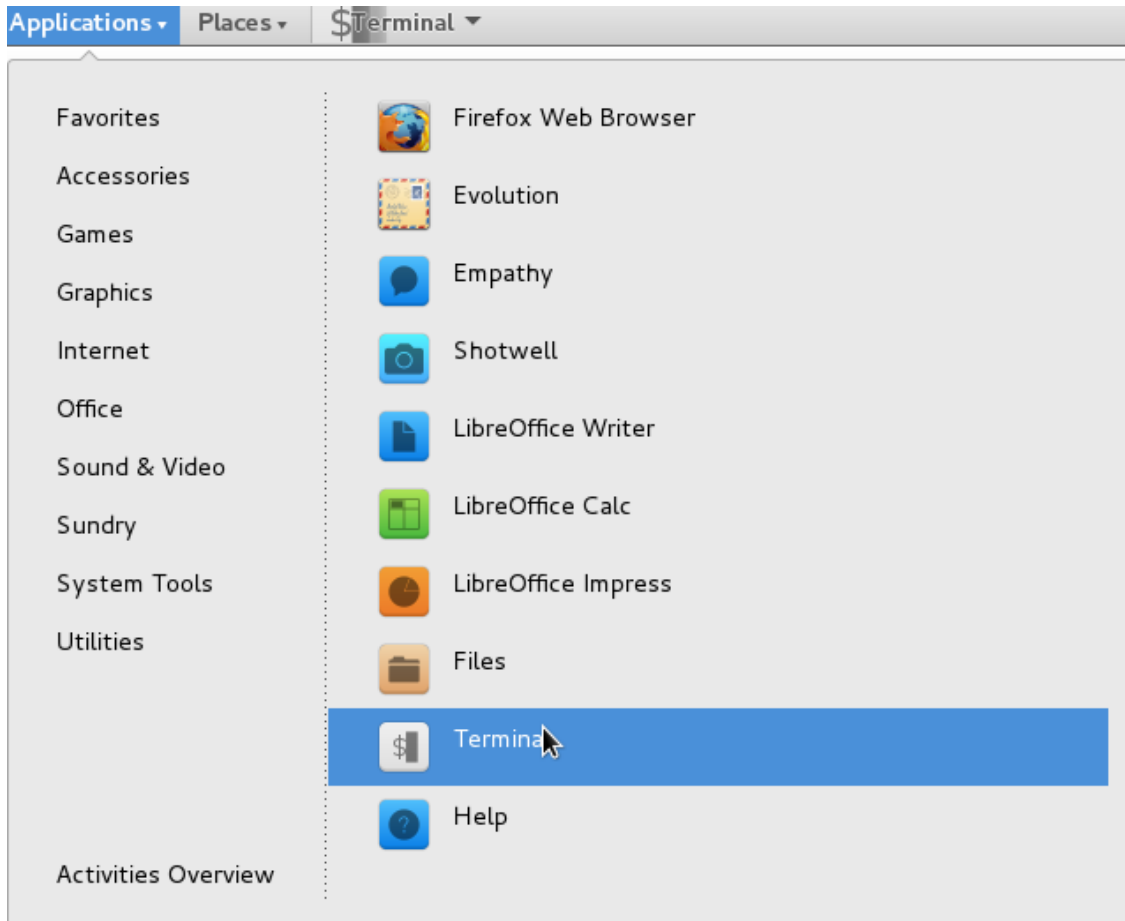


## Meghdoot Openstack Cloud

### 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



CDAC

MEGHDOOT

Log In

User Name

Password

Sign In

## Dashboard

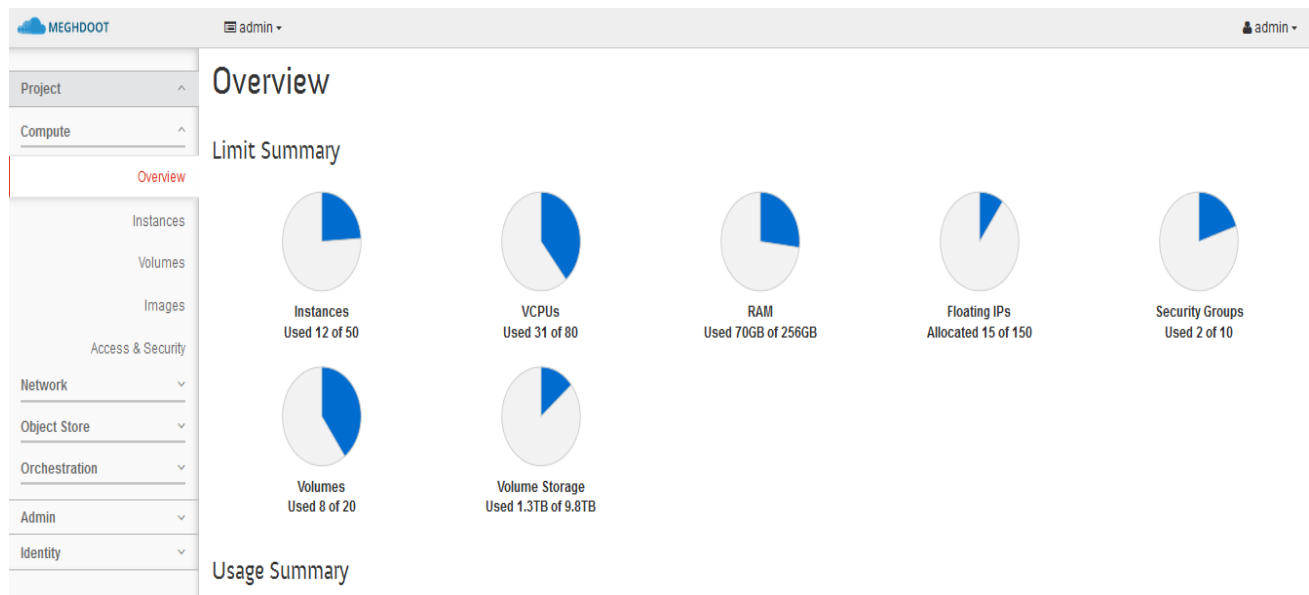
The dashboard is generally installed on the Controller Node.

- 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**

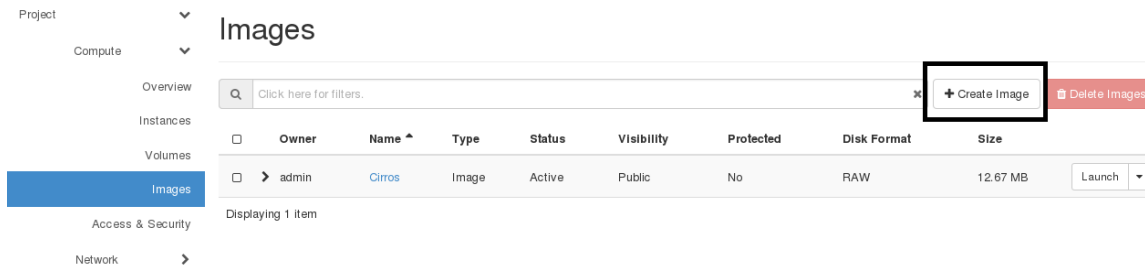
- *Network Topology*: View the network topology.
- *Networks*: Create and manage public and private networks.
- *Routers*: Create and manage routers.
- *Load Balancers*: Create and manage load balancers.
  - *Pools*: Add and manage pools.
  - *Members*: Add and manage members.
  - *Monitors*: Add and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

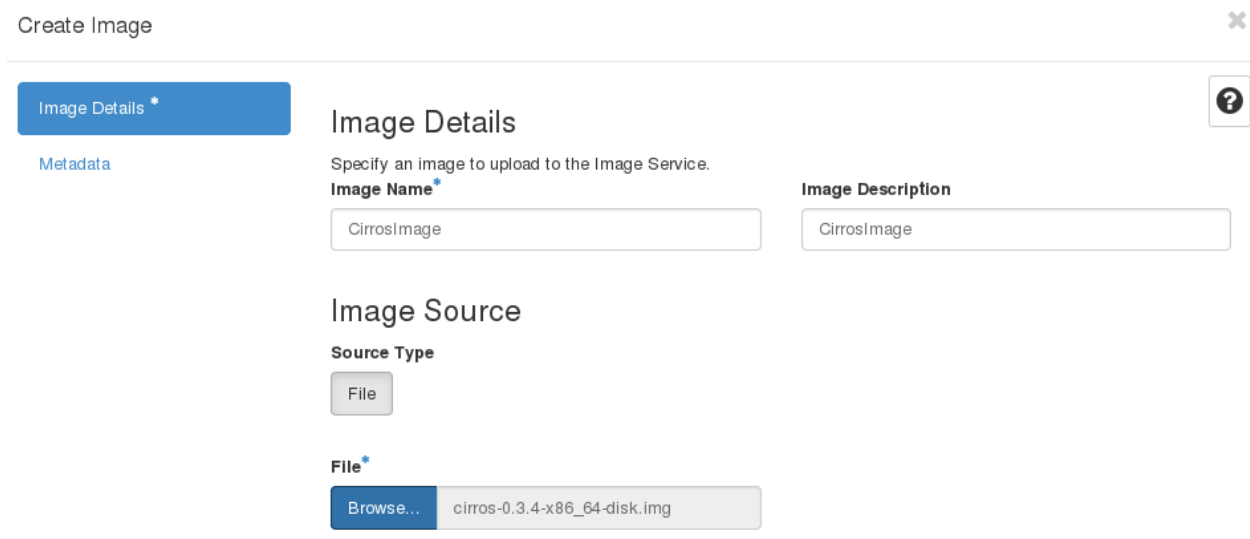
## Uploading Images

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.



**Format\***

QCOW2 - QEMU Emulator

### Image Requirements

**Kernel**  
Choose an image

**Ramdisk**  
Choose an image

**Architecture**  
X86\_64

**Minimum Disk (GB)**  
1

**Minimum RAM (MB)**  
64

### Image Sharing

**Visibility**  
Public Private

**Protected**  
Yes No

< Back   Next >   **✓ Create Image**

## Images

Q Click here for filters. x **+ Create Image** **Delete Images**

<input type="checkbox"/>	Owner	Name ▼	Type	Status	Visibility	Protected	Disk Format	Size	
<input type="checkbox"/>	> admin	CirrosImage	Image	Active	Public	No	QCOW2	12.67 MB	Launch ▼

## 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**



# Create Network



- Network**
- Subnet
- Subnet Details

### Network Name

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

### Admin State

- Shared
- Create Subnet

- Cancel
- « Back
- Next »

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

# Create Network



- Network
- Subnet**
- Subnet Details

### Subnet Name

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

### IP Version

### Gateway IP

- Disable Gateway

- Cancel
- « Back
- Next »

In Subnet Details, enable DHCP and click Create

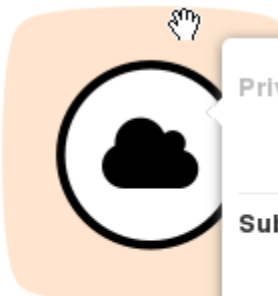
## Create Network ✕

[Network](#) [Subnet](#) **Subnet Details**

**Enable DHCP** Specify additional attributes for the subnet.

**Allocation Pools** ?

**DNS Name Servers** ?



### Private\_net ✕

ID c5441465-6dc2-4cca-b24e-9184a40fb3a1  
STATUS ● Active

**Subnets**

<a href="#">a4a27ffd-716...</a>	192.168.101.0/24	<input type="button" value="Delete Subnet"/>
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[» View Details](#)

## Creating Instance

## Launch Instance

### Launch Instance ×

Details \*   Access & Security   Networking \*   Post-Creation   Advanced Options

**Availability Zone**  
nova

**Instance Name \***  
CDAC

**Flavor \* ⓘ**  
m1.nano

**Instance Count \* ⓘ**  
1

**Instance Boot Source \* ⓘ**  
Select source

Specify the details for launching an instance.  
The chart below shows the resources used by this project in relation to the project's quotas.

**Flavor Details**

Name	m1.nano
VCPUs	1
Root Disk	1 GB
Ephemeral Disk	0 GB
Total Disk	1 GB
RAM	64 MB

**Project Limits**

**Number of Instances** 12 of 50 Used

**Number of VCPUs** 31 of 80 Used

**Total RAM** 71,680 of 262,144 MB Used

Cancel   Launch

