

Openstack Installation procedure from DevStack.org

1. Download Openstack packages from devstack.org using the following command:
`git clone https://github.com/openstack-dev/devstack.git`
2. Go to devstack director using `cd devstack`. You will find the files and directories inside this. Open `stackrc` file and edit the following line – `GIT_BASE=${GIT_BASE:-git://git.openstack.org}` and change this to `GIT_BASE=${GIT_BASE:-https://git.openstack.org}`
3. Create a `local.conf` file that should look like the statements given below

```
[[local|localrc]]
HOST_IP=192.168.42.11 ----- change this ip address to the host system in which you are
installing the openstack.
FLAT_INTERFACE=eth0
FIXED_RANGE=10.4.128.0/20
FIXED_NETWORK_SIZE=4096
FLOATING_RANGE=192.168.42.128/25
MULTI_HOST=1
LOGFILE=/opt/stack/logs/stack.sh.log
ADMIN_PASSWORD=labstack-----change these passwords
MYSQL_PASSWORD=supersecret
RABBIT_PASSWORD=supersecrete
SERVICE_PASSWORD=supersecrete
SERVICE_TOKEN=xyzpdqlazydog
```

4. Now install the openstack with following command : `./stack.sh`
`stack.sh` is a shell script which will install the all the openstack packages one by one through terminal. It is the only command used for the openstack cloud installation. Finally after series of action it will display the dashboard ip address which will be the web based interface for the openstack cloud. Login with admin/demo accounts which will be given after the installation in the commandline/terminal.

This is what looks like after the completion of the openstack installation.
horizon is the dashboard i.e. web based interface and the default user with passwords will be given in terminal.

Horizon is now available at <http://192.168.196.27/>

Keystone is serving at <http://192.168.196.27:5000/v2.0/>

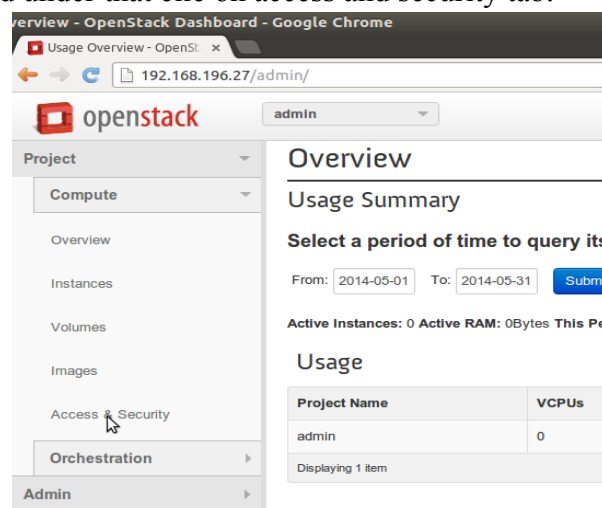
Examples on using novaclient command line is in `exercise.sh`

The default users are: `admin` and `demo`

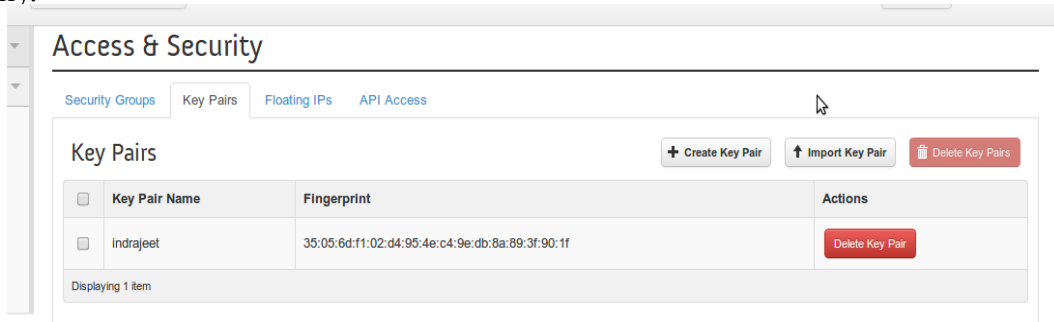
The password: `sit`

This is your host ip: 192.168.196.27

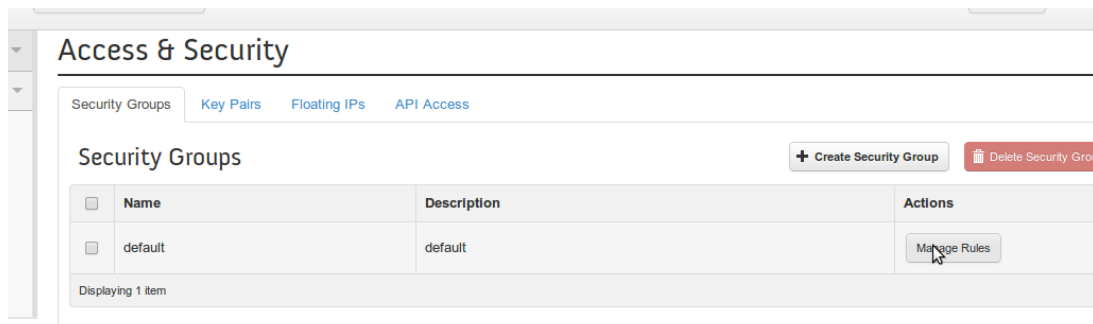
after logging into the openstack dashboard go to the project which is at upperleft corner and click on compute tab and under that click on access and security tab.



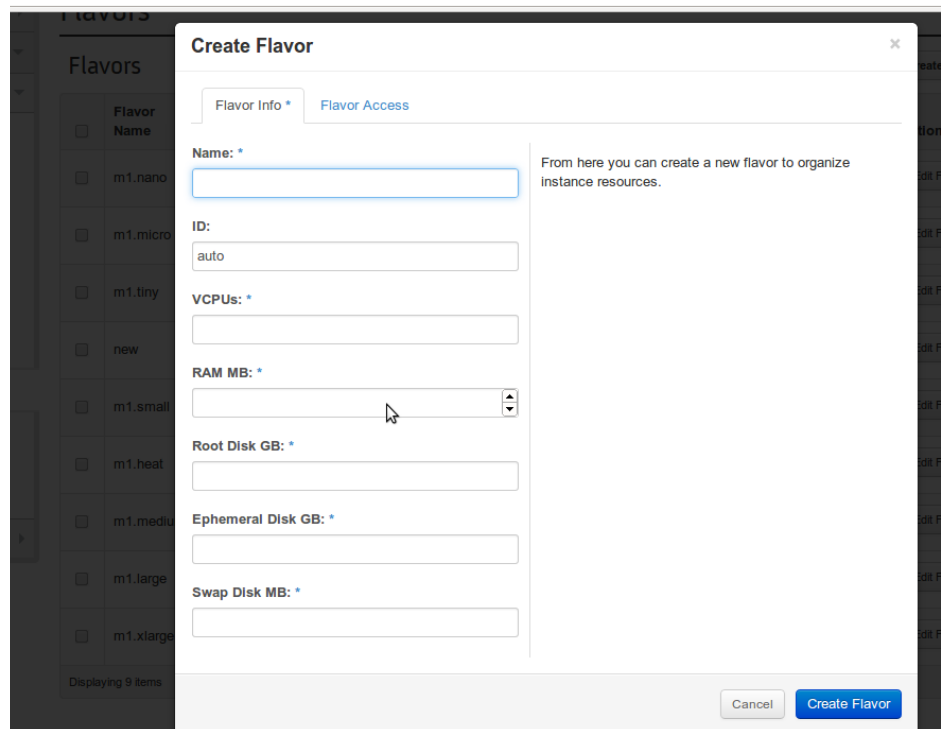
In that security and access you will see security groups and keypairs.
first create a keypairs by clicking on the create new keypair tab the keypair will be downloaded automatically.



In security group you can add rules for access such all tcp and icmp and essentials like ssh, http and mysql.



Now go to the Admin tab you wil see all the admin related tabs. there you can create your own flavor for the vm instance



you can upload any cloud instance image or the operating system image in the images tab by clicking on create new image tab.

Create An Image

Name: *

Description:

Image Source:

Image Location:

Format: *

Architecture:

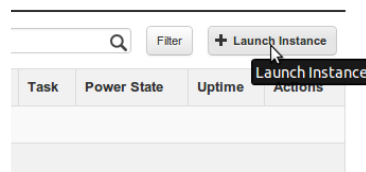
Minimum Disk (GB):

Minimum Ram (MB):

Description:
Specify an image to upload to the Image Service.
Currently only images available via an HTTP URL are supported. The image location must be accessible to the Image Service. Compressed binaries are supported (.zip and .tar.gz.)
Please note: The Image Location field MUST be valid and direct URL to the image binary. URLs that redirect or serve error pages will result in unusable images.

Now go to project and click on instance, there you will see the instances created by you. if you have not created any it will show empty list.

you can create instance by clicking create new instance, it will display a dialogue window and fill up the required fields.



then click on launch tab which will launch a instance.

Launch Instance

Details * Access & Security * Post-Creation Advanced Options

Availability Zone:

Instance Name: *

Flavor: *

Instance Count: *

Instance Boot 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

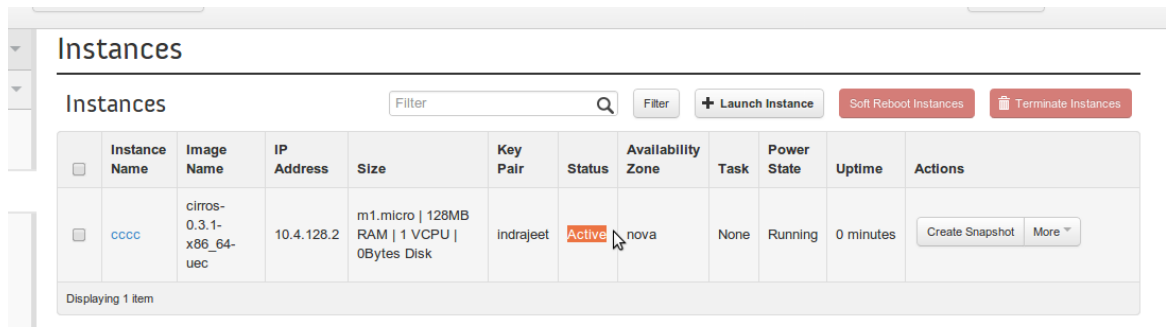
Name	m1.nano
VCPUs	1
Root Disk	0 GB
Ephemeral Disk	0 GB
Total Disk	0 GB
RAM	64 MB

Project Limits

Number of Instances	0 of 10 Used
Number of VCPUs	0 of 20 Used
Total RAM	0 of 51,200 MB Used

Cancel Launch

After you launch an instance, it will show that instance is active..



The screenshot shows the 'Instances' page in a cloud management interface. It features a table with columns for Instance Name, Image Name, IP Address, Size, Key Pair, Status, Availability Zone, Task, Power State, Uptime, and Actions. A single instance named 'cccc' is listed with status 'Active'. Above the table are buttons for 'Launch Instance', 'Soft Reboot Instances', and 'Terminate Instances'. Below the table, it says 'Displaying 1 item'.

	Instance Name	Image Name	IP Address	Size	Key Pair	Status	Availability Zone	Task	Power State	Uptime	Actions
<input type="checkbox"/>	cccc	cirros-0.3.1-x86_64-uec	10.4.128.2	m1.micro 128MB RAM 1 VCPU 0Bytes Disk	Indrajeet	Active	nova	None	Running	0 minutes	Create Snapshot More

Displaying 1 item

Now you can remotely login to your instance using ssh login i.e. Secure shell login from terminal.

These are the following commands for this process

`chmod 700 <path of the .pem(keypair) file>` which you had created previously in access and security.

`Ssh -i <path of the keypair file> root@ip address of the Instance created.`