

## Assignment -2 : Setting a Private Cloud using Open-Source Software

Commands:-

Open terminal and put these commands.

- `sudo -i`
- `sudo useradd -s /bin/bash -d /opt/stack -m stack`
- `echo "stack ALL=(ALL) NOPASSWD: ALL" >> /etc/sudoers # as root`
- `sudo chmod +x /opt/stack`
- `sudo -u stack -i`
- `git clone https://git.openstack.org/openstack-dev/devstack`
- `cd devstack`
- `nano local.conf`

```
GNU nano 6.2 local.conf
[[local|localrc]]
ADMIN_PASSWORD=secret
DATABASE_PASSWORD=$ADMIN_PASSWORD
RABBIT_PASSWORD=$ADMIN_PASSWORD
SERVICE_PASSWORD=$ADMIN_PASSWORD
HOST_IP=10.0.2.15
IP_VERSION=4
LOGFILE=$DEST/logs/stack.sh.log
LOG_COLOR=False
```

- `./stack.sh`

```
This is your host IP address: 10.0.2.15
This is your host IPv6 address: ::1
Horizon is now available at http://10.0.2.15/dashboard
Keystone is serving at http://10.0.2.15/identity/
The default users are: admin and demo
The password: secret

WARNING:
Configuring uWSGI with a WSGI file is deprecated, use module paths instead
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Services are running under systemd unit files.
For more information see:
https://docs.openstack.org/devstack/latest/systemd.html

DevStack Version: 2024.2
Change: 9be4ceaa10f6ed92291e77ec52794acfb67c147 Fix datetime.utcnow() deprecation warning 2024-04-23 15:37:37 -0400
OS Version: Ubuntu 22.04 jammy
```

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- source openrc
- openstack security group rule create --proto icmp --dst-port 0 default
- openstack security group rule create --proto tcp --dst-port 22 default
- openstack floating ip create public

Field	Value
belongs_to_default_sg	True
created_at	2024-04-27T02:52:04Z
description	
direction	ingress
ether_type	IPv4
id	837ba790-ac39-41bd-9597-b65498d95f28
name	None
normalized_cidr	0.0.0.0/0
port_range_max	None
port_range_min	None
project_id	7229971b05674ecbb3e4ca7d2127350c
protocol	icmp
remote_address_group_id	None
remote_group_id	None
remote_ip_prefix	0.0.0.0/0
revision_number	0
security_group_id	0f1edb9c-cf0b-4944-be6f-35fc9d7c7a91
tags	[]
updated_at	2024-04-27T02:52:04Z

Field	Value
created_at	2024-04-27T02:53:51Z
description	
dns_domain	
dns_name	
fixed_ip_address	None
floating_ip_address	172.24.4.37
floating_network_id	3dbc4fdf-fca6-4078-9814-47b8c140cb1b
id	3ce70297-eb2f-4b79-aa5d-34ff5fa9c6ce
name	172.24.4.37
port_details	None
port_id	None
project_id	7229971b05674ecbb3e4ca7d2127350c
qos_policy_id	None
revision_number	0
router_id	None
status	DOWN
subnet_id	None
tags	[]
updated_at	2024-04-27T02:53:51Z

- openstack floating ip list


Open the URL in the browser “[http:10.0.2.15/dashboard](http://10.0.2.15/dashboard)”

User Name: admin

Password: secret (from local.conf file)

ID	Floating IP Address	Fixed IP Address	Port	Floating Network	Project
3ce70297-eb2f-4b79-aa5d-34ff5fa9c6ce	172.24.4.37	None	None	3dbc4fdf-fca6-4078-9814-47b8c140cb1b	7229971b05674ecbb3e4ca7d2127350c



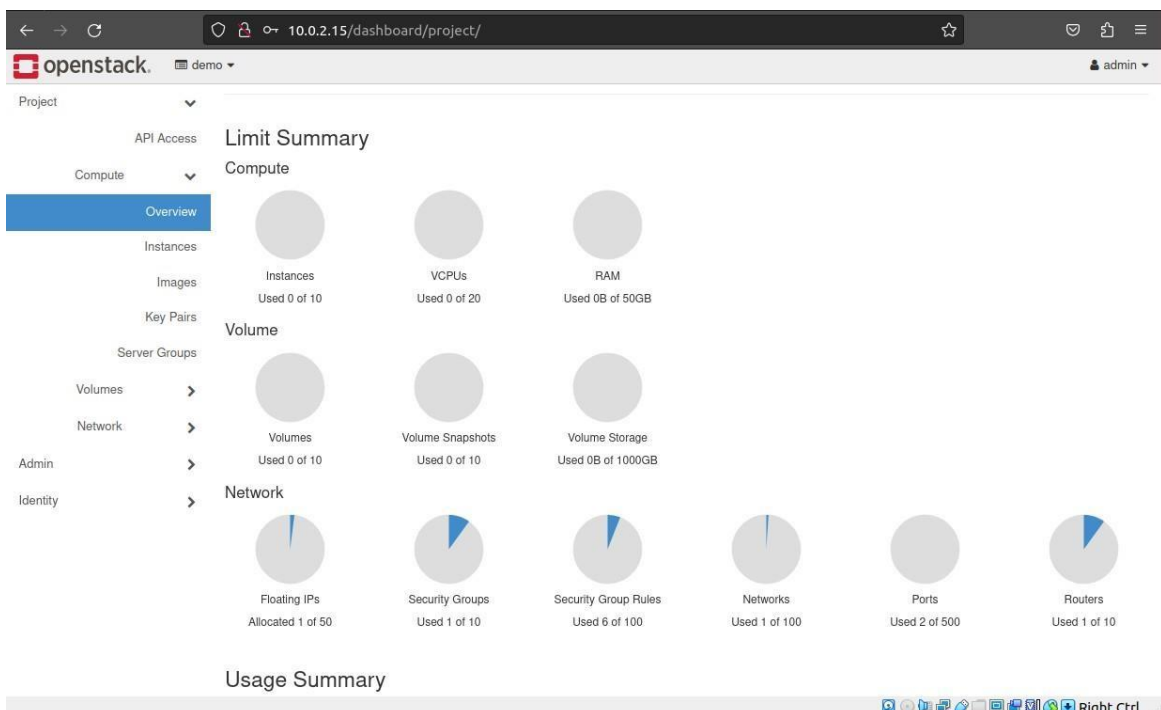
  
**openstack®**

Log in

**User Name**

**Password**

Sign In



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