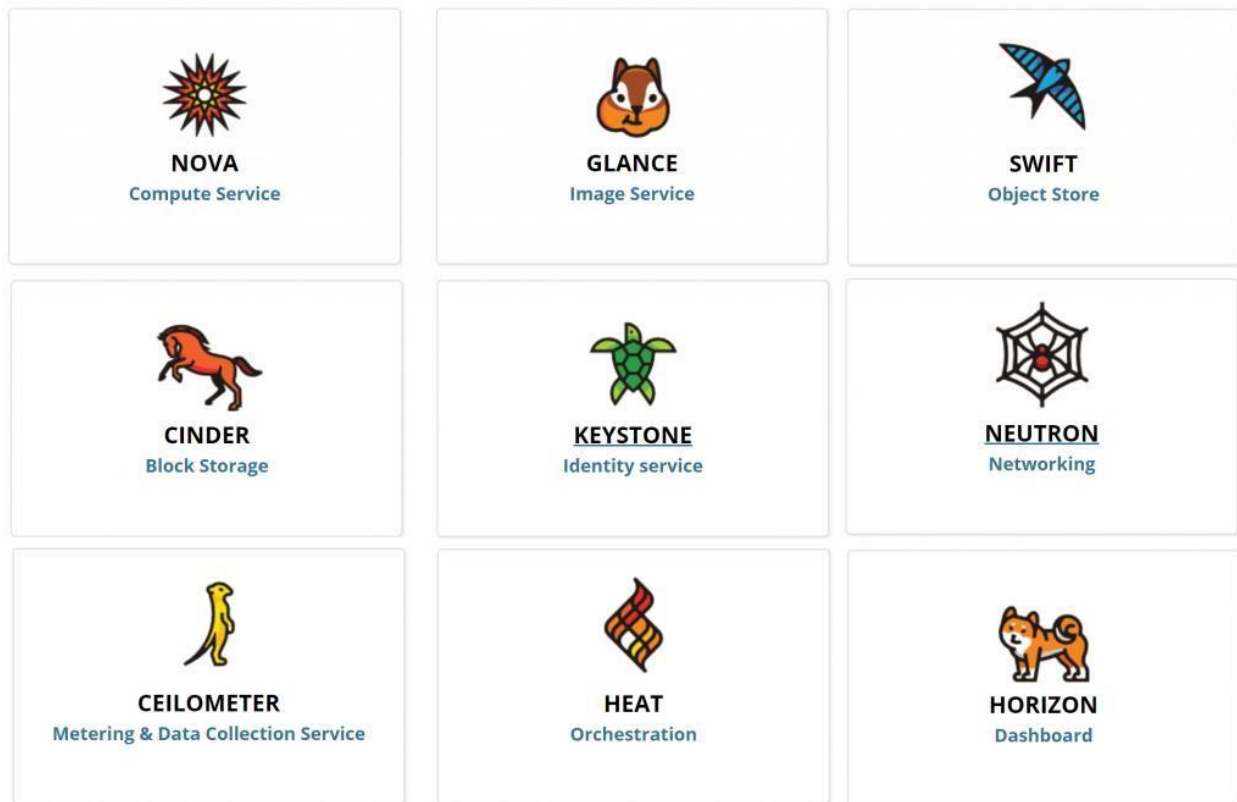




## I. Openstack services



## II. Installation OpenStack

1. Command create user linux for openstack:

```
$ sudo useradd -s /bin/bash -d /opt/stack -m stack
```

```
$ sudo chmod +x /opt/stack
```

2. Command add permission user sudo :

```
$ echo "stack ALL=(ALL) NOPASSWD: ALL" | sudo tee /etc/sudoers.d/stack
```

3. Command for change user:

```
$ sudo -u stack -i
```

### III. OpenStack command (creation utilisateur/projet)

1. Command list projet :

```
$ openstack project list
```

2. Command create projet :

```
$ openstack project create --description 'my project ' my-project \ --domain default
```

3. Command for delete projet :

```
$ openstack project delete my-project
```

4. Command for lister users :

```
$ openstack user list
```

5. Command create user :

```
$ openstack user create --project my-project --password 123 my-user
```

6. Command delete user :

```
$ openstack user delete my-user
```

7. Command create rôle :

```
$ openstack role create my_role
```

8. Command show details role:

```
$ openstack role show my_role
```

9. Command for lister roles:

```
$ openstack role list
```

10. Command for add role & user in role:

```
$ openstack role add --user my-user --project my-project my_role
```

11. Command delete role :

```
$ openstack role delete my_role
```

### IV. OpenStack command (creation instance/image/flavor)

1. Command for list images:  
**\$ openstack image list**
2. Command for list instances:  
**\$ openstack server list**
3. Command for list flavors:  
**\$ openstack flavor list**
4. Command create image :  
**\$ openstack image create --disk-format qcow2 --public --file ./centos63.qcow2  
centos63-image**
5. Command create flavor :  
**\$ openstack flavor create --ram 1024 --disk 4 --vcpus 1 my\_flavor**
6. Command create instance :  
**\$ openstack server create --key-name my-key --flavor my\_flavor --image cirros  
my-vm**
7. Command for show details instance :  
**\$ openstack server show my-vm**
8. Command delete instance :  
**\$ openstack server delete my-vm**
9. Command create key -ssh :  
**\$ openstack keypair create key\_name > key.pem**  
*Key\_name kaat3te smyt l key f openstack wkatsjlo endk f system f fichier key.pem*

## **V. OpenStack command (creation network/router/subnet/floating ip)**

1. Command for list network :  
**\$ openstack network list**
2. Command create network :  
**\$ openstack network create my\_net**
3. Command create subnet :  
**\$ openstack subnet create --network my\_net --subnet-range 192.168.1.0/24  
--gateway 192.168.1.1 --dns-nameserver 8.8.8.8 my\_subnet**
4. Command create router :

**\$ openstack router create my\_router**

5. Command for add subnet in router :

**\$ openstack router add subnet my\_router my\_subnet**

6. Command create floating ip:

**\$ openstack floating ip create --subnet my\_subnet public**

7. Command for attach floating ip in instance:

**\$ openstack server add floating ip my-vm floating-ip-address**

```
root@soufian:/home/soufian# openstack floating ip create --subnet public-subnet public
+-----+-----+
| Field | Value |
+-----+-----+
| created_at | 2023-02-25T16:44:48Z |
| description | |
| dns_domain | |
| dns_name | |
| fixed_ip_address | None |
| floating_ip_address | 172.24.4.101 |
| floating_network_id | 8c7a7bd5-2784-49a5-9492-78eea8d44a32 |
| id | 7aa022dc-f00f-4e7d-ae70-b28f802e9c42 |
| name | 172.24.4.101 |
| port_details | None |
| port_id | None |
| project_id | 4681567070564488b47cd16e42fd605b |
| qos_policy_id | None |
| revision_number | 0 |
| router_id | None |
| status | DOWN |
| subnet_id | f8fb80d7-d9ea-4a06-b1b5-3452235b78e2 |
| tags | [] |
| updated_at | 2023-02-25T16:44:48Z |
+-----+-----+
```

**\$ openstack server add floating ip my-vm 172.24.4.101**

## VI. OpenStack command (creation volume)

1. Command create image with image:

**\$ openstack volume create --image 'Ubuntu 18.04 LTS 64-bit' --size 8  
--availability-zone nova my-volume**

**For show availability-zone use this command:**

```
openstack availability-zone list
```

2. Command create volume without image :

**\$ openstack volume create --size 8 --availability-zone nova my-volume**

3. Command list volume :

**\$ openstack volume list**

4. Command show details volume :

**\$ openstack volume show my-volume**

5. Command for attach volume in instance :

**\$ openstack server add volume my-vm my-volume**

6. Command for verifier if you volume attach instance :

**\$ openstack volume list**

7. Command delete volume :

**\$ openstack volume delete my-volume**

## **VII. OpenStack command (creation container)**

1. Command create container :

**\$ swift post container1**

2. Command for show status container:

**\$ swift stat container1**

3. Command for upload file in container openstack :

**\$ swift upload container1 image.png**

4. Command download file in container openstack:

**\$ swift download container1 image.png**

5. Command for list container :

**\$ swift list container1**

6. Command copie file between two container :

**\$ swift copy --destination container2 container1 image.png**

7. Command delete container :

**\$ swift delete container1**

## **VIII. OpenStack command (creation backup)**

***For id instance you found a command:***

***\$openstack server list***

1. Command create backup strategy :

```
$ openstack database backup strategy create --instance-id /  
97b4b853-80f6-414f-ba6f-c6f455a79ae6 --swift-container my-trove -backup
```

2. Command create backup :

```
$ openstack database backup create 97b4b853-80f6-414f-ba6fc6f455a79ae6  
backup1
```