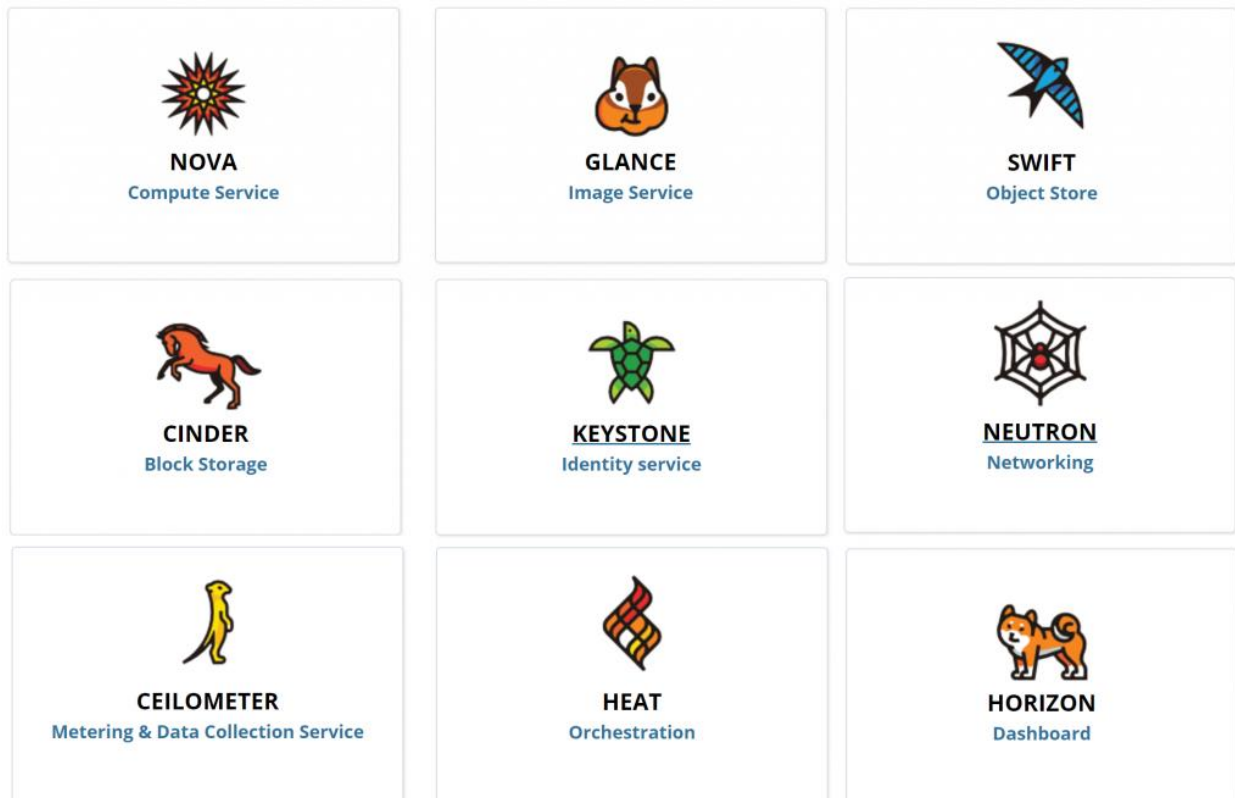


9ra wżid 9ra w fuck lkossala



I. Openstack services



II. Installation OpenStack

1. Command bach tcree user li ghatkhdem bih openstack

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

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

2. Command bach t3te l user stack l permission bach ykhdem **sudo** blama y7taj password

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

3. Command bach t3te l user stack l permission bach ykhdem **sudo** blama y7taj password

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

4. Command bach tdkhel b user stack

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

III. OpenStack command (creation utilisateur/projet)

1. Command bach tchuf les projet li kaynin

\$ openstack project list

2. Command bach t créer projet

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

3. Command bach tsuprimi chi projet

\$ openstack project delete my-project

4. Command bach tchuf les utilisateurs li kaynin

\$ openstack user list

5. Command bach t créer utilisateur

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

6. Command bach tsuprimi chi user

\$ openstack user delete my-user

7. Command bach t créer un role

\$ openstack role create my_role

8. Command bach tchuf dyaal role li creeti

\$ openstack role show my_role

9. Command bach tchuf roles li kaynin

\$ openstack role list

10. Command bach tzid role l user/project fd9a

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

11. Command bach tsuprimi chi role

\$ openstack role delete my_role

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

1. Command bach tchuf les images li kaynin f openstack

```
$ openstack image list
```

2. Command bach tchuf les instances li kaynin f openstack

```
$ openstack server list
```

3. Command bach tchuf l flavorsli kaynin f openstack

```
$ openstack flavor list
```

4. Command bach t créer image

```
$ openstack image create --disk-format qcow2 --public --file ./centos63.qcow2  
centos63-image
```

5. Command bach t créer flavor

```
$ openstack flavor create --ram (ch7al f ram bl mb) --disk (ch7al f disk  
b gb) --vcpus (ch7al mn vcpus (1,2,3.....)) smya_dl_flavor  
$ openstack flavor create --ram 1024 --disk 4 --vcpus 1 my_flavor
```

6. Command bach t créer instance

```
$ openstack server create --key-name my-key --flavor my_flavor --image cirros  
my-vm
```

7. Command bach tchuf les informations dyal l instances li saybti

```
$ openstack server show my-vm
```

8. Command bach tsuprime instance

```
$ openstack server delete my-vm
```

9. Command bach t créer 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 bach tchuf les réseaux li kaynin

```
$ openstack network list
```

2. Command bach t créer réseau

```
$ openstack network create my_net
```

9ra wżid 9ra w fuck lkossala

3. Command bach t créer 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 bach t créer router

```
$ openstack router create my_router
```

5. Command bach t attacher subnet l router

```
$ openstack router add subnet my_router my_subnet
```

6. Command bach t créer floating ip

```
$ openstack floating ip create --subnet my_subnet public
```

7. Command bach t attacher floating ip l server

```
$ openstack server add floating ip my-vm floating-ip-address
```

floating-ip-address kat2aficha mn mor makatcree l floating ip

```
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 bach t créer un volume mn image

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

Bach tchuf l availability zone li kaynin kadir `openstack availability-zone list`

9ra wɓid 9ra w fuck lkossala

2. Command bach t créer un volume bla image
\$ openstack volume create --size 8 --availability-zone nova my-volume
3. Command bach tchuf les volumes li creeti
\$ openstack volume list
4. Command bach tchuf les informations dyaal l volume li saybti
\$ openstack volume show my-volume
5. Command bach pour attacher un volume a un instance (hadi ma3rftch nktbha bdarija)
\$ openstack server add volume my-vm my-volume
6. Command bach t2ked wach volume t attacha l'instance
\$ openstack volume list
7. Command bach tsuprime volume
\$ openstack volume delete my-volume

VII. OpenStack command (creation container)

1. Command bach t créer container
\$ swift post container1
2. Command bach tchuf statut dyaal container
\$ swift stat container1
3. Command bacht t7et chi objet (fichier/document) endk f system f container
\$ swift upload container1 image.png
4. Command bacht thez chi objet mn container l system dyalk
\$ swift download container1 image.png
5. Command bacht t chuf les objets li kaynin fchi container
\$ swift list container1
6. Command bacht t copier chi objet mn container l akhor
\$ swift copy --destination container2 container1 image.png
7. Command bacht t supprimer chi container
\$ swift delete container1

VIII. OpenStack command (creation backup)

9ra wżid 9ra w fuck lkossala

Id nta3 l'instance atl9ah f `openstack server list`

1. Command bacht t créer backup strategy

\$ openstack database backup strategy create --instance-id /

97b4b853-80f6-414f-ba6f-c6f455a79ae6 --swift-container my-trove -backup

2. Command bacht t supprimer chi container

\$ openstack database backup create 97b4b853-80f6-414f-ba6f-

c6f455a79ae6 backup1