

Name: Sachit Bhor
Roll NO: 21141244

Experiment No: 6

Title: Implement Infrastructure as a Service using Open stack.

Practical:


```
es Terminal Nov 2 19:27
sachhit@sachhit-VirtualBox: ~
sachhit@sachhit-VirtualBox:~$ sudo microstack init --auto --control
2024-11-02 18:56:30,345 - microstack_init - INFO - Configuring clustering ...
2024-11-02 18:56:35,606 - microstack_init - INFO - Setting up as a control node.
2024-11-02 18:57:24,421 - microstack_init - INFO - Generating TLS Certificate and Key
2024-11-02 18:57:39,877 - microstack_init - INFO - Configuring networking ...
2024-11-02 18:58:05,821 - microstack_init - INFO - Opening horizon dashboard up to *
2024-11-02 18:58:08,082 - microstack_init - INFO - Waiting for RabbitMQ to start ...
Waiting for 10.0.2.15:5672
2024-11-02 18:58:08,871 - microstack_init - INFO - RabbitMQ started!
2024-11-02 18:58:08,872 - microstack_init - INFO - Configuring RabbitMQ ...
2024-11-02 18:58:12,568 - microstack_init - INFO - RabbitMQ Configured!
2024-11-02 18:58:12,654 - microstack_init - INFO - Waiting for MySQL server to start ...
Waiting for 10.0.2.15:3306
2024-11-02 18:58:14,417 - microstack_init - INFO - Mysql server started! Creating database
2024-11-02 18:58:17,177 - microstack_init - INFO - Configuring Keystone Fernet Keys ...
2024-11-02 18:58:30,485 - microstack_init - INFO - Bootstrapping Keystone ...
2024-11-02 18:58:37,332 - microstack_init - INFO - Creating service project ...

sachhit@sachhit-VirtualBox:~$ sudo snap get microstack config.credentials
Key                                     Value
config.credentials.cinder-password    oIUM6BmKFxbD0vVT14Xa0mqrJncDKkBG
config.credentials.glance-password    cw3dNlhYuBZDKEwxsTiBraknUVIWWuF9
config.credentials.key-pair            /home/{USER}/snap/{SNAP_NAME}/common/
config.credentials.keystone-password  RHh20ZyQq45CsgIDQiHME8zM3e6ikt0f
config.credentials.mysql-root-password gpKLK5MBHjhtsl8r4RvgN3QRAoJY0siw
config.credentials.neutron-password   xisaJl3gE4WRMYfwEGF5xWRL72mi5qtJ
config.credentials.nova-password      9oji05IL143oRJsnky1MKi5nRj6aaK40
config.credentials.ovn-metadata-proxy-shared-secret QZLct6Kswb9c6v6P6Xnuuve70GmMxaWC
config.credentials.placement-password 1xKWSB9xF6ehRkvQ0U0hAj1N1f1SC79Y
config.credentials.rabbitmq-password  1nqc3ZVJy6fdwjxBc7hytMfyeswo9Z0Q
sachhit@sachhit-VirtualBox:~$ ^C
sachhit@sachhit-VirtualBox:~$
```

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Instance Overview - OpenStack | error: snap "microstack" | Login - OpenStack Dashboard | +

https://10.20.20.1/auth/login/

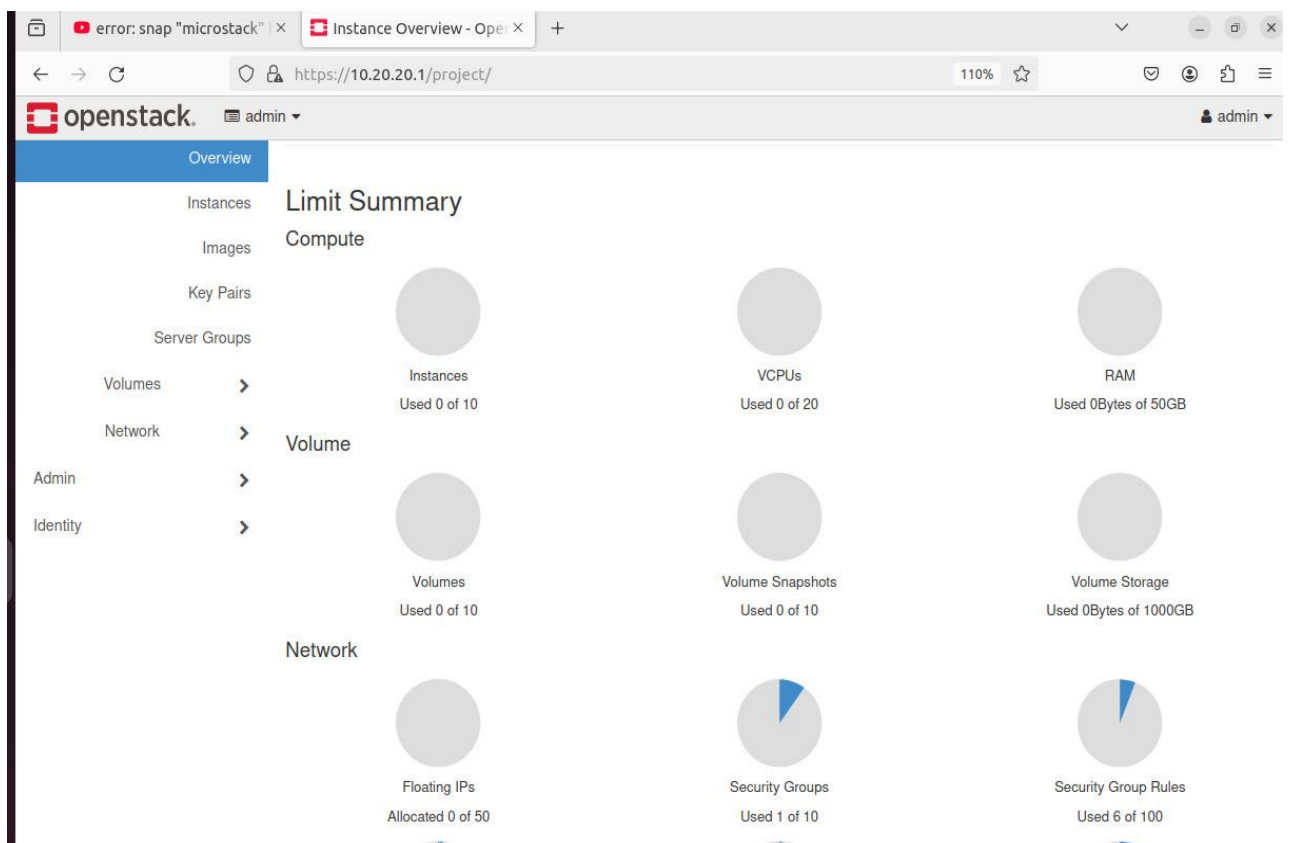

openstack.

Log in

User Name

Password

Sign In



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error: snap "microstack" x Images - OpenStack Dash x +

https://10.20.20.1/project/images 110% ☆

openstack. admin admin

Project / Compute / Images

Images

Click here for filters or full text search. x + Create Image Delete Images

Displaying 1 item

Owner	Name ^	Type	Status	Visibility	Protected
admin	cirros	Image	Active	Public	No

Launch

Project

API Access

Compute

Overview

Instances

Images

Key Pairs

Server Groups

Volumes

Network

Admin

Identity


error: snap "microstack" x Images - OpenStack Dash x A collection of prebuilt BSD x +

https://bsd-cloud-image.org

Virt-Lightning). They can support all the


netbsd-8.2.qcow2 Completed — 148 MB

Show all downloads



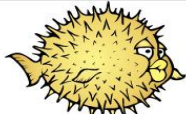
FreeBSD

13.4 14.1



NetBSD®

8.2 9.3



OpenBSD

7.5 7.6

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← → ↻ 🔒 https://10.20.20.1/project/images 110% ☆ 📄 📄 📄 ☰

openstack. admin

Project

Create Image

Image Details

Specify an image to upload to the Image Service.

Image Name
NetBSD

Image Description
Cloud NetBSD OS

Image Source

File*
Browse... netbsd-8.2.qcow2

Format*
QCOW2 - QEMU Emulator

Image Requirements

Kernel
Choose an image

Ramdisk
Choose an image

Architecture

Minimum Disk (GB)*
0

Minimum RAM (MB)*
0

error: snap "microstack" x Images - OpenStack Dash x A collection of prebuilt BSD x +

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openstack. admin

Project

API Access

Compute

Overview

Instances

Images

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Project / Compute / Images

Images

🔍 Click here for filters or full text search. x + Create Image Delete Images

Displaying 2 items

<input type="checkbox"/>	Owner	Name ^	Type	Status	Visibility	Protected	
<input type="checkbox"/>	> admin	cirros	Image	Active	Public	No	Launch ▾
<input type="checkbox"/>	> admin	NetBSD	Image	Active	Public	No	Launch ▾

Displaying 2 items

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← → ↻

https://10.20.20.1/project/instances/

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openstack.

admin

admin

Project

Launch Instance

?

Details

Source

Flavor

Networks *

Network Ports

Security Groups

Key Pair

Configuration

Server Groups

Scheduler Hints

Metadata

Flavors manage the sizing for the compute, memory and storage capacity of the instance.

Allocated

Name	VCPUS	RAM	Total Disk	Public	
> m1.tiny	1	512 MB	1 GB	Yes	⬇

▼ Available ⓘ

🔍 Click here for filters or full text search.

×

Name	VCPUS	RAM	Total Disk	Public	
> m1.small	1	2 GB	20 GB	Yes	⬆
> m1.medium	2	4 GB	20 GB	Yes	⬆
> m1.large	4	8 GB	20 GB	Yes	⬆
> m1.xlarge	8	16 GB	20 GB	Yes	⬆

✕ Cancel

< Back

Next >

🔧 Launch Instance

← → ↻

https://10.20.20.1/project/instances/

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Project

Source

Flavor *

Networks *

Network Ports

Security Groups

Key Pair

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Server Groups

Scheduler Hints

Metadata

Select Boot Source

Image

Volume Size (GB) *

3

Allocated

Displaying 1 item

Name	
> cirros	⬇

Displaying 1 item

▼ Available ⓘ

🔍 Click here for filters or full text search.

×

Displaying 1 item

Name	
> NetBSD	⬆

Displaying 1 item

Create New Volume

Yes

No

Delete Volume on Instance Delete

Yes

No

← → ↻

https://10.20.20.1/project/instances/

110%

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Project

Instances

Project / Compute / Instances

Instances

Instance ID =

Filter

🔧 Launch Instance

🗑 Delete Instances

More Actions

Displaying 1 item

Instance Name	Image Name	IP Address	Flavor	Key Pair	Status	Availability Zone	Task	Power State	Age	Actions
MyVM1	-		m1.tiny	-	Build	nova	Scheduling	No State	0 minutes	Associate Floating IP

Displaying 1 item

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```
sachhit@sachhit-VirtualBox: ~  
sachhit@sachhit-VirtualBox:~$ microstack launch cirros -n MyVM1  
Creating local "microstack" ssh key at /home/sachhit/snap/microstack/common/.ssh/id_microstack  
Launching server ...  
Allocating floating ip ...  
Server MyVM1 launched! (status is BUILD)  
  
Access it with `ssh -i /home/sachhit/snap/microstack/common/.ssh/id_microstack cirros@10.20.20.239`  
You can also visit the OpenStack dashboard at https://10.20.20.1:443  
sachhit@sachhit-VirtualBox:~$
```

error: snap "microstack" | Instances - OpenStack Dashboard | A collection of prebuilt BSD

https://10.20.20.1/project/instances/

openstack. admin

Project / Compute / Instances

Instances

Instance ID = Filter More Action

Displaying 1 item

<input type="checkbox"/>	Instance Name	Image Name	IP Address	Flavor	Key Pair	Status	Availability Zone	Task	Power State	Age	Actions
<input type="checkbox"/>	MyVM1	cirros	192.168.222.128, 10.20.20.239	m1.tiny	microstack	Active	nova	None	Running	1 minute	<input type="button" value="Create Snapshot"/>

Displaying 1 item

Admin

error: snap "microstack" | MyVM1 - OpenStack Dashboard | A collection of prebuilt BSD

https://10.20.20.1/project/instances/99fc75aa-fcab-4acd-9ed5-a9f0053041b3/

openstack. admin

Project / Compute / Instances / MyVM1

MyVM1

Overview Interfaces Log Console Action Log

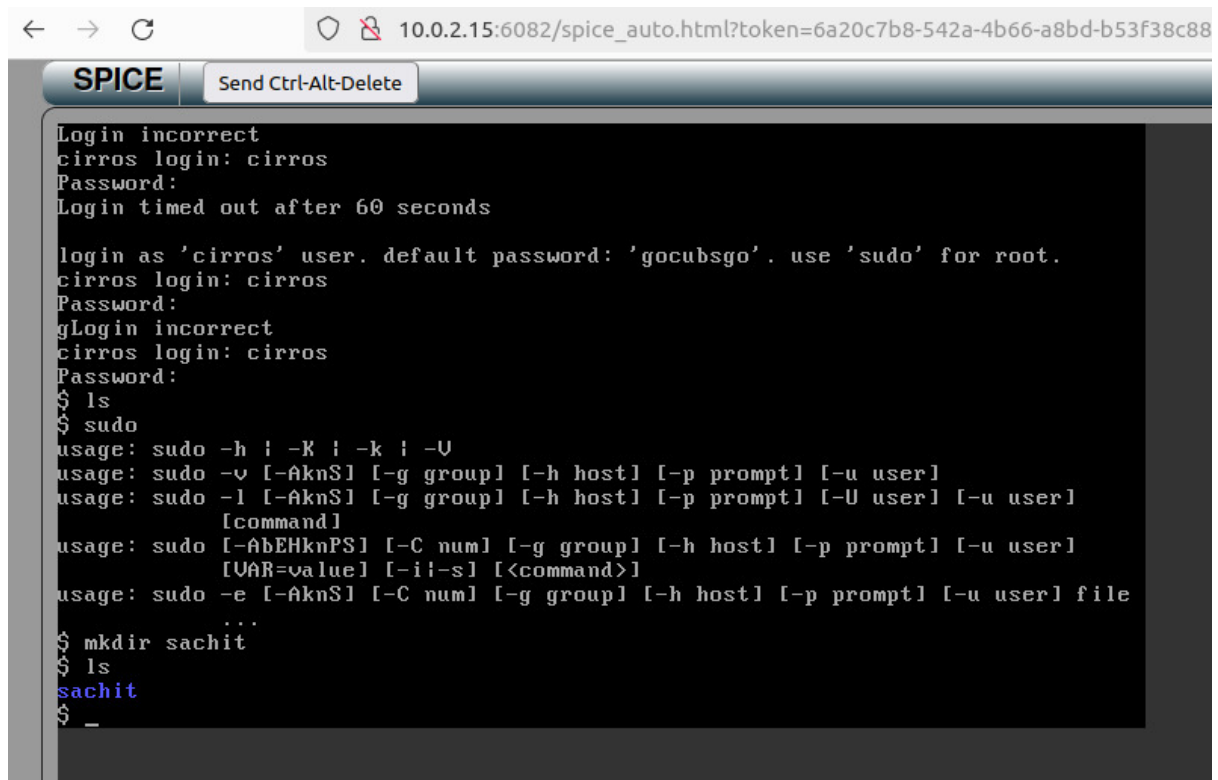
Name MyVM1
ID 99fc75aa-fcab-4acd-9ed5-a9f0053041b3
Description MyVM1
Project ID a60a484e0b764507a3228b066b1d809d
Status Active
Locked False
Availability Zone nova
Created Nov. 2, 2024, 2:45 p.m.
Age 2 minutes
Host sachhit-VirtualBox

Specs

Flavor Name	m1.tiny
Flavor ID	1
RAM	512MB
VCPUs	1 VCPU
Disk	1GB

IP Addresses

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```
← → ↻ 10.0.2.15:6082/spice_auto.html?token=6a20c7b8-542a-4b66-a8bd-b53f38c88
SPICE Send Ctrl-Alt-Delete
Login incorrect
cirros login: cirros
Password:
Login timed out after 60 seconds

login as 'cirros' user. default password: 'gocubsgo'. use 'sudo' for root.
cirros login: cirros
Password:
gLogin incorrect
cirros login: cirros
Password:
$ ls
$ sudo
usage: sudo -h | -K | -k | -U
usage: sudo -v [-AknS] [-g group] [-h host] [-p prompt] [-u user]
usage: sudo -l [-AknS] [-g group] [-h host] [-p prompt] [-U user] [-u user]
[command]
usage: sudo [-AbEHknPS] [-C num] [-g group] [-h host] [-p prompt] [-u user]
[VAR=value] [-i|-s] [<command>]
usage: sudo -e [-AknS] [-C num] [-g group] [-h host] [-p prompt] [-u user] file
...
$ mkdir sachit
$ ls
sachit
$ -
```