

Name: Jardel Mitchell

Student ID# 816027213

Question 1 OpenStack Glance (Image Service)

a) Creation of a new Image

The screenshot shows the 'Create Image' dialog in the OpenStack Glance web interface. The 'Image Details' tab is selected. The 'Image Name' field contains 'My Cloud Image'. The 'Image Source' section has 'File' selected, with a 'Browse' button and a text field showing 'cirros-0.3.4-aml-tranfs'. The 'Format' dropdown is set to 'Raw'. The 'Image Requirements' section includes 'Kernel' (Choose an image), 'Architecture' (empty), 'Randisk' (Choose an image), 'Minimum Disk (GB)' (15), and 'Minimum RAM (MB)' (2). The 'Image Sharing' section has 'Visibility' set to 'Private' and 'Protected' set to 'No'. Navigation buttons at the bottom include 'Cancel', '< Back', 'Next >', and 'Create Image'.

The screenshot shows the 'Create Image' dialog in the OpenStack Glance web interface, with the 'Metadata' tab selected. It displays two columns: 'Available Metadata' and 'Existing Metadata'. The 'Available Metadata' list includes 'Custom', 'CIM Processor Allocation Setting', 'Cinder Volume Type', 'Common Operating System Properties', 'CPU Pinning', 'Database Software', 'Guest Memory Backing', 'Hypervisor Selection', and 'Image Signature Verification'. The 'Existing Metadata' list shows 'Architecture: x86_64' and 'OS Distribution: CentOS 7'. A 'Filter' input is present above each list. At the bottom, there is a 'Cancel' button, navigation buttons '< Back', 'Next >', and a 'Create Image' button.

Update Image Metadata



You can specify resource metadata by moving items from the left column to the right column. In the left column there are metadata definitions from the Glance Metadata Catalog. Use the "Custom" option to add metadata with the key of your choice.

Available Metadata	Filter	Q
Custom		+
➤ CIM Processor Allocation Setting		+
➤ Cinder Volume Type		+
➤ Common Operating System Properties		+
➤ CPU Pinning		+
➤ Database Software		+
➤ Guest Memory Backing		+
➤ Hypervisor Selection		+
➤ Image Signature Verification		+

Existing Metadata	Filter	Q
Architecture	x86_64	-
OS Distribution	CentOS 7	-
os_hash_algo	sha512	-
os_hash_value	8ed39503eeaa ...	-
os_hidden	false	-

Click each item to get its description here.

✕ Cancel

Save

Confirmation that image was successfully created.

openstack.

admin

Project

API Access

Compute

Overview

Instances

Images

Key Pairs

Server Groups

Volumes

Network

Admin

Identity

Project / Compute / Images

Images

Click here for filters or full text search.

+ Create Image

Delete Images

Displaying 3 items

	Owner	Name	Type	Status	Visibility	Protected	Disk Format	Size	
<input type="checkbox"/>	admin	cirros-0.5.2-x86_64-disk	Image	Active	Public	No	QCOW2	15.55 MB	<div>Launch</div>
<input type="checkbox"/>	alt_demo	MCI	Image	Active	Image from Other Project - Non-Public	No	QCOW2	3.35 MB	<div>Launch</div>
<input type="checkbox"/>	admin	My Cloud Image	Image	Active	Shared	No	RAW	3.35 MB	<div>Launch</div>

Displaying 3 items

b) Question 2 Open Stack Dashboard (Horizon)

Project creation

openstack.

admin

Project

Admin

Identity

Domains

Projects

Users

Groups

Roles

Application Credentials

Identity / Projects

Projects

Project Name

Filter


+ Create Project

Delete Projects

Displaying 7 items

	Name	Description	Project ID	Domain Name	Enabled	Actions
<input type="checkbox"/>	Site Visit		427cef0b01084e6c9a3b59c479e0bca	Default	Yes	<div>Manage Members</div>
<input type="checkbox"/>	My Pro		5097a4248cbe47378c93be0e191db3ed	Default	Yes	<div>Manage Members</div>
<input type="checkbox"/>	invisible_to_admin		5ac92526b746d8a9814c068e9c8148	Default	Yes	<div>Manage Members</div>
<input type="checkbox"/>	alt_demo		b2f608606a9b4da18d1c2b4f91c96699	Default	Yes	<div>Manage Members</div>
<input type="checkbox"/>	admin	Bootstrap project for initializing the cloud.	bcc78ce261304c7287b5c54f4ada874a	Default	Yes	<div>Manage Members</div>
<input type="checkbox"/>	demo		bd5290d42abac49e1af00b937a048aed7	Default	Yes	<div>Manage Members</div>
<input type="checkbox"/>	service		dd71a3bcbe244196ada9a8bbcbdbd705	Default	Yes	<div>Manage Members</div>

Displaying 7 items



openstack®

Log in

User Name

CloudUser

Password

Sign In

openstack

MyCloud

CloudUser

Project

API

Compute

Volumes

Projects:

MyCloud

compute / Overview

Overview

Limit Summary

Compute

Instances

VCPUs

RAM

c) Attempt for creating a volume

openstack

MyCloud

CloudUser

Project

API Access

Compute

Volumes

Project / Volumes / Volumes

Volumes

Filter

Create Volume

Accept Transfer

Name	Description	Size	Status	Group	Type	Attached To	Availability Zone	Bootable	Encrypt	Create Volume	Actions
No items to display											

Snapshots

Groups

Group Snapshots

Network

Identity

openstack

MyCloud

Project

API Access

Compute

Volumes

Snapshots

Groups

Group Snapshots

Network

Identity

Project / Volumes / Volumes

Volumes

Name

Description

Create Volume

Volume Name

Volume

Description

Volume Source

No source, empty volume

Type

lvmdriver-1

Size (GiB)

1

Availability Zone

nova

Group

No group

Description:

Volumes are block devices that can be attached to instances.

Volume Type Description:

lvmdriver-1

No description available

Volume Limits

Total Gibibytes

0 of 1,000 GiB Used

Number of Volumes

0 of 10 Used

Cancel

Create Volume

Project / Volumes / Volumes

Volumes

Filter

+ Create Volume

= Accept Transfer

Delete Volumes

Displaying 1 item

	Name	Description	Size	Status	Group	Type	Attached To	Availability Zone	Bootable	Encrypted	Actions
<input type="checkbox"/>	Volume	-	1GiB	Error	-	lvmdriver-1		nova	No	No	<div>Delete Volume</div>

Displaying 1 item

Launch Instance

Details

Source

Flavor*

Networks

Network Ports

Security Groups

Key Pair

Configuration

Server Groups

Scheduler Hints

Metadata

Please provide the initial hostname for the instance, the availability zone where it will be deployed, and the instance count. Increase the Count to create multiple instances with the same settings.

Project Name

MyCloud

Instance Name*

cloud instance

Description

Availability Zone

nova

Count*

1

Total Instances (10 Max)

10%

0 Current Usage

1 Added

9 Remaining

Cancel

< Back

Next >

Launch Instance

openstack

MyCloud

Project

API Access

Compute

Overview

Instances

Images

Instances

Key Pairs

Server Groups

Volumes

Network

Identity

Launch Instance

Details

Source

Flavor*

Networks

Network Ports

Security Groups

Key Pair

Configuration

Server Groups

Scheduler Hints

Metadata

Instance source is the template used to create an instance. You can use an image, a snapshot of an instance (image snapshot), a volume or a volume snapshot (if enabled). You can also choose to use persistent storage by creating a new volume.

Select Boot Source

Image

Create New Volume

Yes

No

Allocated

Displaying 0 items

Name	Updated	Size	Format	Visibility
Select an item from Available items below				

Displaying 0 items

Available

Select one

Click here for filters or full text search.

Displaying 1 item

Name	Updated	Size	Format	Visibility
> cirros-0.5.2-x86_64-disk	10/15/21 10:46 PM	15.55 MB	QCOW2	Public

Displaying 1 item

Cancel

< Back

Next >

Launch Instance

openstack

MyCloud

Project

API Access

Compute

Overview

Instances

Images

Key Pairs

Server Groups

Volumes

Network

Identity

Launch Instance

Details

Source

Flavor

Networks

Network Ports

Security Groups

Key Pair

Configuration

Server Groups

Scheduler Hints

Metadata

Instance source is the template used to create an instance. You can use an image, a snapshot of an instance (image snapshot), a volume or a volume snapshot (if enabled). You can also choose to use persistent storage by creating a new volume.

Select Boot Source

Create New Volume

Allocated

Displaying 1 item

Name	Updated	Size	Format	Visibility
ciros-0.5.2-x86_64-disk	10/15/21 10:46 PM	15.55 MB	QCOW2	Public

Displaying 1 item

Available

Click here for filters or full text search.

Displaying 0 items

Name	Updated	Size	Format	Visibility
No items to display.				

Displaying 0 items

Cancel

Back

Next

Launch Instance

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

Available

Name	VCPUS	RAM	Total Disk	Root Disk	Ephemeral Disk	Public
m1.nano	1	128 MB	1 GB	1 GB	0 GB	Yes

Available

Click here for filters or full text search.

Name	VCPUS	RAM	Total Disk	Root Disk	Ephemeral Disk	Public
m1.micro	1	192 MB	1 GB	1 GB	0 GB	Yes
ciros256	1	256 MB	1 GB	1 GB	0 GB	Yes
m1.tiny	1	512 MB	1 GB	1 GB	0 GB	Yes
ds512M	1	512 MB	5 GB	5 GB	0 GB	Yes
ds1G	1	1 GB	10 GB	10 GB	0 GB	Yes
m1.small	1	2 GB	20 GB	20 GB	0 GB	Yes
ds2G	2	2 GB	10 GB	10 GB	0 GB	Yes
m1.medium	2	4 GB	40 GB	40 GB	0 GB	Yes
ds4G	4	4 GB	20 GB	20 GB	0 GB	Yes

Cancel

Back

Next

Launch Instance

openstack

MyCloud

Project

API Access

Compute

Overview

Instances

Images

Key Pairs

Server Groups

Volumes

Network

Identity

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
cloud instance	ciros-0.5.2-x86_64-disk		Not available	-	Build	nova	Scheduling	No State	0 minutes	Associate Floating IP

Displaying 1 item

openstack

MyCloud

CloudUser

Project

API Access

Compute

Overview

Instances

Images

Key Pairs

Server Groups

Volumes

Network

Identity

Project / Compute / Instances

Instances

Instance ID = Filter Launch Instance Delete Instances More Actions

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"/>	cloud instance	cirros-0.5.2-x86_64-disk	192.168.233.149	Not available	-	Build	us-east-1	nova	Spawning	No State	0 minutes	Associate Floating IP

Displaying 1 item

Attaching a new volume created an error message

openstack

MyCloud

CloudUser

Project

API Access

Compute

Overview

Instances

Images

Key Pairs

Server Groups

Volumes

Network

Identity

Project / Compute / Instances

Instances

Instance ID = Filter Launch Instance Delete Instances More Actions

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"/>	cloud instance	cirros-0.5.2-x86_64-disk	192.168.233.149	Not available	-	Active	us-east-1	nova	None	Running	0 minutes	Create Snapshot

Displaying 1 item

Attach Volume

Volume ID

Volume (eabbca73-ca21-4b1f-acc0-35fbc32c56de)

Description:

Attach Volume to Running Instance.

Cancel Attach Volume

openstack MyCloud CloudUser

Project / Compute / Instances

Error: Unable to attach volume. [Details](#)

Instances

Instance ID = Filter [Launch Instance](#) [Delete Instances](#) [More Actions](#)

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"/>	cloud instance	cirros-0.5.2-x86_64-disk	192.168.233.149	m1.nano	-	Active	nova	None	Running	1 minute	Create Snapshot

Displaying 1 item

Signing back in as an admin

openstack

Log in

User Name

admin

Password

.....

Sign In

Removal of the “MyCloud” Project and associated resources

Projects

[+ Create Project](#)

🗑 Delete Projects

Displaying 8 items

Q	Name	Description	Project ID	Domain Name	Enabled	Actions
<input type="checkbox"/>	Site Visit		427cefdb01084e6c9a3b59c479e0bcd	Default	Yes	<div>Manage Members</div>
<input type="checkbox"/>	My Pro		5097a4248cbe47378c93be0e191db3ed	Default	Yes	<div>Manage Members</div>
<input type="checkbox"/>	invisible_to_admin		5ac92526b7464d8a8f814c068e9c8148	Default	Yes	<div>Manage Members</div>
<input type="checkbox"/>	alt_demo		b2f608606a9b4da18d1c2b4f91c66699	Default	Yes	<div>Manage Members</div>
<input type="checkbox"/>	admin	Bootstrap project for initializing the cloud.	bcc78ce261304cf287b5c54f4ada874a	Default	Yes	<div>Manage Members</div>
<input type="checkbox"/>	demo		bd9290d2abac49e1afd0b937a048aed7	Default	Yes	<div>Manage Members</div>
<input type="checkbox"/>	MyCloud		c309bb49603244e49014059cc9692bdd	Default	Yes	<div>Manage Members</div>
<input type="checkbox"/>	service		dd71a3bcb244196ada6a8bbcbdbdf705	Default	Yes	<div>Manage Members</div>

Displaying 8 items

Projects

+ Create Project

🗑 Delete Projects

Displaying 8 items

<input type="checkbox"/>	Name	Description	Project ID	Domain Name	Enabled	Actions
<input type="checkbox"/>	Site Visit		427cefdb01084e6c9a3b59c479e0bcda	Default	Yes	<div>Manage Members</div>
<input type="checkbox"/>	My Pro		5097a4248cbe47378c93be0e191db3ed	Default	Yes	<div>Manage Members</div>
<input type="checkbox"/>	invisible_to_admin		5ac92526b7464d8a8f814c068e9c8148	Default	Yes	<div>Manage Members</div>
<input type="checkbox"/>	alt_demo		b2f608606a9b4da18d1c2b4f91c66699	Default	Yes	<div>Manage Members</div>
<input type="checkbox"/>	admin	Bootstrap project for initializing the cloud.	bcc78ce261304cf287b5c54f4ada874a	Default	Yes	<div>Manage Members</div>
<input type="checkbox"/>	demo		bd9290d2abac49e1afd0b937a048aed7	Default	Yes	<div>Manage Members</div>
<input type="checkbox"/>	MyCloud		c309bb49603244e49014059cc9692bdd	Default	Yes	<div>Manage Members</div>
<input type="checkbox"/>	service		dd71a3bcbe244196ada6a8bbcd9df705	Default	Yes	<div>Modify Groups Edit Project</div>

Displaying 8 items

- Modify Groups
- Edit Project
- View Usage
- Modify Quotas
- Delete Project

Confirm Delete Project

x

You have selected: "MyCloud". Please confirm your selection. This action cannot be undone.

Cancel

Delete Project

Projects

Project Name =

Displaying 7 items

<input type="checkbox"/>	Name	Description	Project ID	Domain Name	Enabled	Actions
<input type="checkbox"/>	Site Visit		427cefdb01084e6c9a3b59c479e0bcda	Default	Yes	<input type="button" value="Manage Members"/> <input type="button" value="▼"/>
<input type="checkbox"/>	My Pro		5097a4248cbe47378c93be0e191db3ed	Default	Yes	<input type="button" value="Manage Members"/> <input type="button" value="▼"/>
<input type="checkbox"/>	invisible_to_admin		5ac92526b7464d8a8f814c068e9c8148	Default	Yes	<input type="button" value="Manage Members"/> <input type="button" value="▼"/>
<input type="checkbox"/>	alt_demo		b2f608606a9b4da18d1c2b4f91c66699	Default	Yes	<input type="button" value="Manage Members"/> <input type="button" value="▼"/>
<input type="checkbox"/>	admin	Bootstrap project for initializing the cloud.	bcc78ce261304cf287b5c54f4ada874a	Default	Yes	<input type="button" value="Manage Members"/> <input type="button" value="▼"/>
<input type="checkbox"/>	demo		bd9290d2abac49e1afd0b937a048aed7	Default	Yes	<input type="button" value="Manage Members"/> <input type="button" value="▼"/>
<input type="checkbox"/>	service		dd71a3bcbe244196ada6a8bbcd9df705	Default	Yes	<input type="button" value="Manage Members"/> <input type="button" value="▼"/>

Displaying 7 items

e) Question 3 Open Stack Identity Management Creation of a new Project and User

Project Groups

default

Default

IdentityTest

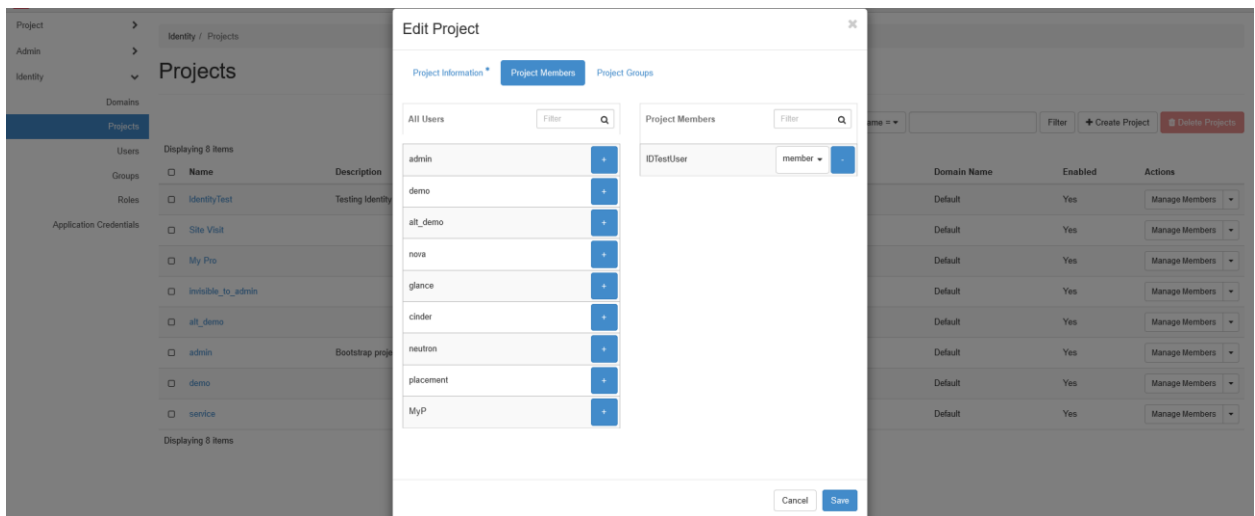
Testing Identity Management

☒

Create Project

Cancel Create User

[illegible]



f) Verifying the new user

The screenshot shows the OpenStack login form. At the top is the OpenStack logo. Below it is the text 'Log in'. There are two input fields: 'User Name' with the value 'IDTestUser' and 'Password' with masked characters. A 'Sign In' button is located at the bottom right of the form.

openstack®

Log in

User Name
IDTestUser

Password
••••••••

Sign In

openstack. IdentityTest IDTestUser

Project Identity

Projects IdentityTest

Projects

Application Credentials

Project Name = Filter

Displaying 1 item

Name	Description	Project ID	Domain Name	Enabled	Actions
IdentityTest	Testing Identity Management	111381bdbb69444bab4023e90aa08bd	Default	Yes	

Displaying 1 item

openstack. IdentityTest IDTestUser

Project Identity

Projects Users

Users

Application Credentials

User Name = Filter

Displaying 1 item

User Name	Description	Email	User ID	Enabled	Domain Name	Actions
IDTestUser	-		b8cf88d5081445ce62e4eff7f4e4cbb9	Yes	Default	

Displaying 1 item

g) Attempt at deleting the IdentityTest project. The member user was unable to delete the Project. Switched back to admin privilege to delete the Project.

openstack

IdentityTest

IDTestUser

Project

API Access

Compute

Volumes

Network

Identity

Identity / Projects

Projects

Project Name = Filter

Displaying 1 item

Name	Description	Project ID	Domain Name	Enabled	Actions
IdentityTest	Testing Identity Management	111381bdb696444bab4023e90aa08bd	Default	Yes	

Displaying 1 item

Edit Project



- Project Information *
- Project Members
- Project Groups

All Users	Filter	Q
demo		+
alt_demo		+
nova		+
glance		+
cinder		+
neutron		+
placement		+
MyP		+

Project Members	Filter	Q
IDTestUser	member	-
admin	member, admin	-

✓ member

ResellerAdmin

Guest

reader

service

✓ admin

anotherrole

openstack

admin

admin

Project

Admin

Identity

Domains

Projects

Users

Groups

Roles

Application Credentials

Identity / Projects

Projects

Project Name =

Filter

Create Project

Delete Projects

Displaying 8 items

<input type="checkbox"/>	Name	Description	Project ID	Domain Name	Enabled	Actions
<input checked="" type="checkbox"/>	IdentityTest	Testing Identity Management	111381b3db6444bab4023ef60aa08bd	Default	Yes	Manage Members
<input type="checkbox"/>	Site Visit		427cefdb01084e6c9a3b59c479e0bcda	Default	Yes	Manage Members
<input type="checkbox"/>	My Pro		5097a4248cbe47378c93be0e191db3ed	Default	Yes	Manage Members
<input type="checkbox"/>	invisible_to_admin		5ac92526b7464d8a8f14c068e9c8148	Default	Yes	Manage Members
<input type="checkbox"/>	all_demo		b2608060a9b4da18d1c2b4f91c66699	Default	Yes	Manage Members
<input type="checkbox"/>	admin	Bootstrap project for initializing the cloud.	bcc78ce261304c287b5c544ada874a	Default	Yes	Manage Members
<input type="checkbox"/>	demo		bd9290d2abac49e1afd06937a048aed7	Default	Yes	Manage Members
<input type="checkbox"/>	service		dd71a3bcbe244196adafa8bbcbdf705	Default	Yes	Manage Members

Displaying 8 items

Confirm Delete Projects

You have selected: "IdentityTest". Please confirm your selection. This action cannot be undone.

Cancel

Delete Projects

openstack

admin

admin

Project

Admin

Identity

Domains

Projects

Users

Groups

Roles

Application Credentials

Identity / Projects

Projects

Project Name =

Filter

Create Project

Delete Projects

Displaying 7 items

<input type="checkbox"/>	Name	Description	Project ID	Domain Name	Enabled	Actions
<input type="checkbox"/>	Site Visit		427cefdb01084e6c9a3b59c479e0bcda	Default	Yes	Manage Members
<input type="checkbox"/>	My Pro		5097a4248cbe47378c93be0e191db3ed	Default	Yes	Manage Members
<input type="checkbox"/>	invisible_to_admin		5ac92526b7464d8a8f14c068e9c8148	Default	Yes	Manage Members
<input type="checkbox"/>	all_demo		b2608060a9b4da18d1c2b4f91c66699	Default	Yes	Manage Members
<input type="checkbox"/>	admin	Bootstrap project for initializing the cloud.	bcc78ce261304c287b5c544ada874a	Default	Yes	Manage Members
<input type="checkbox"/>	demo		bd9290d2abac49e1afd06937a048aed7	Default	Yes	Manage Members
<input type="checkbox"/>	service		dd71a3bcbe244196adafa8bbcbdf705	Default	Yes	Manage Members

Displaying 7 items

h) Question 4 – Networking

Creation of the network, subnet, router and router interface

openstack

admin

admin

Project

Admin

Compute

Volume

Network

Networks

Routers

Floating IPs

RBAC Policies

System

Identity

Admin / Network / Networks

Networks

Project = Filter + Create Network Delete Networks

Project	Network Name	Subnets Associated	Shared	External	Status	Admin State	Availability Zones	Actions
admin	shared	shared-subnet 192.168.233.0/24	Yes	No	Active	UP	-	Edit Network
admin	Small_net	small_small_net 172.16.1.0/24 medium_small_net 192.168.3.0/24	No	No	Active	UP	-	Edit Network
demo	private	private-subnet 10.0.0.0/26 ipv6-private-subnet fd:c0:b5dc:693b::/64	No	No	Active	UP	-	Edit Network
admin	public	public-subnet 10.0.4.224/27 ipv6-public-subnet 2001:db8::/64	No	Yes	Active	UP	-	Edit Network

Displaying 4 items

openstack

admin

admin

Project

Admin

Compute

Volume

Network

Networks

Routers

Floating IPs

RBAC Policies

System

Identity

Admin / Network / Networks

Networks

Project = Filter + Create Network Delete Networks

Create Network

Network * Subnet Subnet Details

Name

Project * Select a project

Provider Network Type * Local

☒ Enable Admin State

☐ Shared

☐ External Network

☒ Create Subnet

Availability Zone Hints

MTU

Cancel Back Next

Create a new network. In addition, a subnet associated with the network can be created in the following steps of this wizard.

Admin State	Availability Zones	Actions
UP	-	Edit Network
UP	-	Edit Network
UP	-	Edit Network
UP	-	Edit Network

Create Network



Network *

Subnet

Subnet Details

Name

Cloud Lab Exam

Create a new network. In addition, a subnet associated with the network can be created in the following steps of this wizard.

Project *

admin

This field is required.

Provider Network Type * ?

Local

☒ Enable Admin State ?

☐ Shared

☐ External Network

☒ Create Subnet

Availability Zone Hints ?

MTU ?

Cancel

« Back

Next »

Create Network



Network *

Subnet

Subnet Details

Subnet Name

cloud comp

Network Address Source

Enter Network Address manually

Network Address ?

192.168.1.0/24

IP Version

IPv4

Gateway IP ?

☐ Disable Gateway

Creates a subnet associated with the network. You need to enter a valid "Network Address" and "Gateway IP". If you did not enter the "Gateway IP", the first value of a network will be assigned by default. If you do not want gateway please check the "Disable Gateway" checkbox. Advanced configuration is available by clicking on the "Subnet Details" tab.

Cancel

« Back

Next »

Create Network



Network *

Subnet

Subnet Details

☒ Enable DHCP

Specify additional attributes for the subnet.

Allocation Pools ?

DNS Name Servers ?

8.8.8.8
8.8.4.4

Host Routes ?

Cancel

« Back

Create

Admin / Network / Networks

Networks

Project =

Filter

+ Create Network

Delete Networks

Displaying 5 items

<input type="checkbox"/>	Project	Network Name	Subnets Associated	Shared	External	Status	Admin State	Availability Zones	Actions
<input type="checkbox"/>	admin	Cloud Lab Exam	cloud comp 192.168.1.0/24	No	No	Active	UP	-	Edit Network

Add Interface

Subnet *

Cloud Lab Exam: 192.168.1.0/24 (cloud comp) ▼

IP Address (optional) ?

Description:

You can connect a specified subnet to the router.
If you don't specify an IP address here, the gateway's IP address of the selected subnet will be used as the IP address of the newly created interface of the router. If the gateway's IP address is in use, you must use a different address which belongs to the selected subnet.

Cancel

Submit

openstack

admin

admin

Project

API Access

Compute

Volumes

Network

Network Topology

Networks

Routers

Security Groups

Floating IPs

Admin

Identity

Project / Network / Routers / Cloud

Cloud

Overview Interfaces Static Routes

Set Gateway ▼

➕ Add Interface Delete Interfaces

Displaying 1 item

<input type="checkbox"/>	Name	Fixed IPs	Status	Type	Admin State	Actions
<input type="checkbox"/>	a1fbcc43-e69d	192.168.1.1	Active	Internal Interface	UP	Delete Interface

Displaying 1 item

i) Deployment of the Virtual Machine

Launch Instance



Details

Source

Flavor

Networks

Network Ports

Security Groups

Key Pair

Configuration

Server Groups

Scheduler Hints

Metadata

Please provide the initial hostname for the instance, the availability zone where it will be deployed, and the instance count. Increase the Count to create multiple instances with the same settings.

Project Name

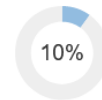
Instance Name *

Description

Availability Zone

Count *

Total Instances
(10 Max)



0 Current Usage
1 Added
9 Remaining

✕ Cancel

< Back

Next >

Launch Instance

Launch Instance



Details

Source

Flavor

Networks

Network Ports

Security Groups

Key Pair

Configuration

Server Groups

Scheduler Hints

Metadata

Instance source is the template used to create an instance. You can use an image, a snapshot of an instance (image snapshot), a volume or a volume snapshot (if enabled). You can also choose to use persistent storage by creating a new volume.

Select Boot Source

Image

Create New Volume

Yes

No

Allocated

Displaying 1 item

Name	Updated	Size	Format	Visibility	
> cirros-0.5.2-x86_64-disk	10/15/21 10:46 PM	15.55 MB	QCOW2	Public	⌵

Displaying 1 item

Available 2

Select one

Displaying 2 items

Name	Updated	Size	Format	Visibility	
> MCI	3/18/24 1:31 AM	3.35 MB	QCOW2	Shared	⬆
> My Cloud Image	3/18/24 2:47 AM	3.35 MB	RAW	Shared	⬆

Displaying 2 items

Cancel

Back

Next

Launch Instance

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	Root Disk	Ephemeral Disk	Public	
> m1.nano	1	128 MB	1 GB	1 GB	0 GB	Yes	↓

▼ Available 11

Select one

Q	Click here for filters or full text search.						X
Name	VCPUS	RAM	Total Disk	Root Disk	Ephemeral Disk	Public	
> m1.micro	1	192 MB	1 GB	1 GB	0 GB	Yes	↑
> cirros256	1	256 MB	1 GB	1 GB	0 GB	Yes	↑
> m1.tiny	1	512 MB	1 GB	1 GB	0 GB	Yes	↑
> ds512M	1	512 MB	5 GB	5 GB	0 GB	Yes	↑
> ds1G	1	1 GB	10 GB	10 GB	0 GB	Yes	↑
> m1.small	1	2 GB	20 GB	20 GB	0 GB	Yes	↑
> ds2G	2	2 GB	10 GB	10 GB	0 GB	Yes	↑
> m1.medium	2	4 GB	40 GB	40 GB	0 GB	Yes	↑

Launch Instance

[Details](#)[Source](#)[Flavor](#)[Networks](#)[Network Ports](#)[Security Groups](#)[Key Pair](#)[Configuration](#)[Server Groups](#)[Scheduler Hints](#)[Metadata](#)

Networks provide the communication channels for instances in the cloud.

▼ Allocated 1

Select networks from those listed below.

Network	Subnets Associated	Shared	Admin State	Status	
1 > Cloud Lab Exam	cloud comp	No	Up	Active	↓

▼ Available 3

Select at least one network

Q	Click here for filters or full text search.				X
Network	Subnets Associated	Shared	Admin State	Status	
> Small_net	small_small_net medium_small_net	No	Up	Active	↑
> public	public-subnet ipv6-public-subnet	No	Up	Active	↑
> shared	shared-subnet	Yes	Up	Active	↑

X Cancel

< Back

Next >

Launch Instance

openstack

admin

Project

API Access

Compute

Overview

Instances

Images

Key Pairs

Server Groups

Volumes

Network

Admin

Identity

Project / Compute / Instances

Instances

Instance ID = Filter Launch Instance Delete Instances More Actions

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"/>	Cloud	cirros-0.5.2-x86_64-disk	192.168.1.215	Not available	fln	Build	nova	Spawning	No State	0 minutes	<button>Associate Floating IP</button>

Displaying 1 item

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"/>	Cloud	cirros-0.5.2-x86_64-disk	192.168.1.215	Not available	fln	Active	nova	None	Running	0 minutes	<div><div>Create Snapshot</div><div><div>Associate Floating IP</div><div>Attach Interface</div><div>Detach Interface</div><div>Edit Instance</div><div>Attach Volume</div><div>Detach Volume</div><div>Update Metadata</div></div></div>

Displaying 1 item

Allocate Floating IP

Pool *

public

Description

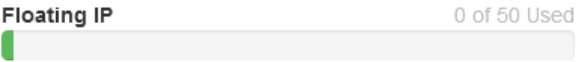
DNS Domain

DNS Name

Description:

Allocate a floating IP from a given floating IP pool.

Project Quotas



Cancel

Allocate IP

Manage Floating IP Associations

IP Address

10.0.4.227

+

Port to be associated

Cloud: 192.168.1.215

▼

Select the IP address you wish to associate with the selected instance or port.

Cancel

Associate

Success: Allocated Floating IP 10.0.4.227.

Filter

Launch Instance

Delete Instances

More Actions

Task	Power State	Age	Actions
None	Running	1 minute	Create Snapshot

openstack

admin

admin

Project

API Access

Compute

Overview

Instances

Images

Key Pairs

Server Groups

Volumes

Network

Admin

Identity

Project / Compute / Instances

Instances

Instance ID

Filter

Launch Instance

Delete Instances

More Actions

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"/>	Cloud	cirros-0.5.2-x86_64-disk	192.168.1.215, 10.0.4.227	m1.nano	flan	Active	us-east-1a	nova	None	Running	2 minutes	Create Snapshot

Displaying 1 item

j) Creation of the SSH key pair

openstack

admin

admin

Project

API Access

Compute

Overview

Instances

Key Pairs

Server Groups

Volumes

Network

Admin

Identity

Project / Compute / Key Pairs

Key Pairs

Click here for filters or full text search.

Create Key Pair

Import Public Key

Delete Key Pairs

Displaying 1 item

<input type="checkbox"/>	Name	Type	Fingerprint	Actions
<input type="checkbox"/>	flan	ssh	37:65:22:b9:75:64:11:6f:eb:c3:14:f5:cc:bc:ef:45	Delete Key Pair

Displaying 1 item

Create Key Pair

✕

?

Key Pair Name *

Security

✓

Key Type *

SSH Key

▼

✕ Cancel

+ Create Key Pair

Security.pem

Open File

Security.pem

ssh

8f:55:e7:23:38:a8:14:23:4d:1f:81:18:05:84:a1:89

Delete Key Pair

Sign out

➞ Sign Out