

Openstack User Tutorial

Based on Openstack Stein

Web frontend: Dashboard

Mário David <david@lip.pt>

Jorge Gomes <jorge@lip.pt>


co-funded by:



Dashboard - Login

Login:
<https://stratus.ncg.ingrid.pt>

Domain: **default**
Username: **<your_username>**
Password: **<your_password>**



openstack®

Log in

Domain

default

User Name

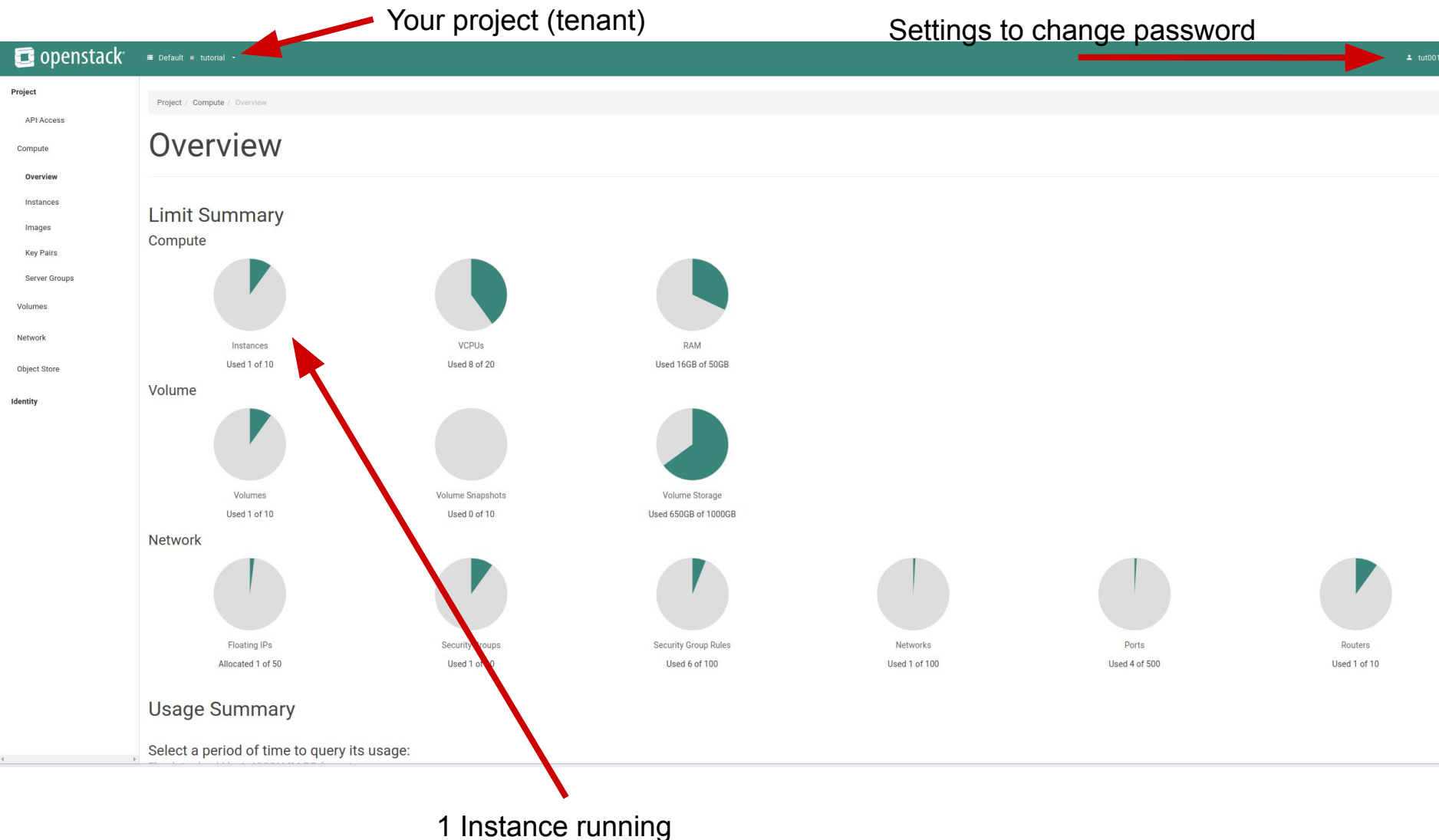
tut

Password

.....

[SIGN IN](#)

Dashboard - Overview




Dashboard – change passwd

To change the password

The screenshot shows the OpenStack dashboard interface. The top navigation bar is green with the OpenStack logo and a dropdown menu showing 'Default' and 'Tutorial'. The left sidebar contains a list of navigation items: 'Project', 'Identity', 'Settings', 'User Settings', and 'Change Password'. The 'User Settings' item is highlighted, and a red arrow points from it to the 'User Settings' page header. The main content area is titled 'User Settings' and contains several settings: 'Language' (English (en)), 'Timezone' (UTC), 'Items Per Page' (20), and 'Log Lines Per Instance' (35). A 'Description' section on the right states 'Modify dashboard settings for your user.'

Dashboard – View images

Images and snapshots



openstack

Default tutorial

tut001

Project

- API Access
- Compute
- Overview
- Instances
- Images**
- Key Pairs
- Server Groups
- Volumes
- Network
- Object Store
- Identity

Project / Compute / Images

Images

Click here for filters or full text search.

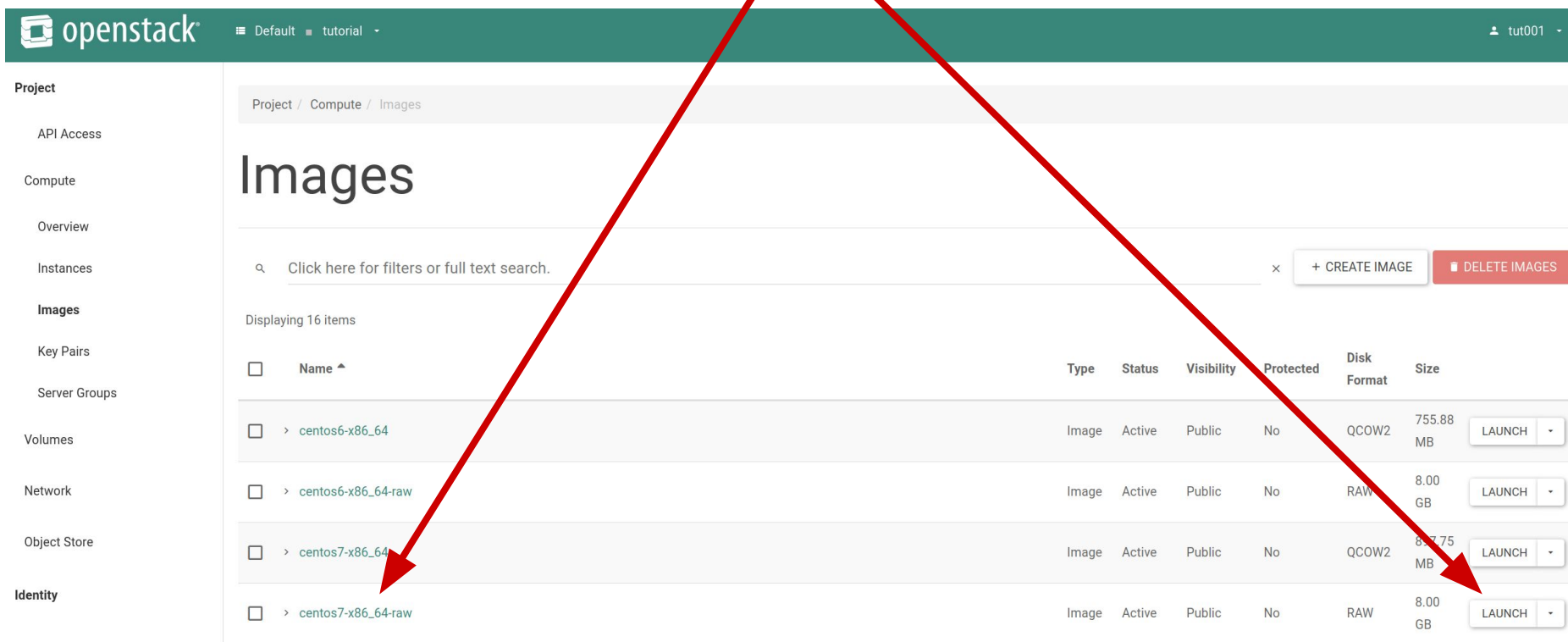
+ CREATE IMAGE DELETE IMAGES

Displaying 16 items

<input type="checkbox"/>	Name ^	Type	Status	Visibility	Protected	Disk Format	Size	
<input type="checkbox"/>	> centos6-x86_64	Image	Active	Public	No	QCOW2	755.88 MB	LAUNCH
<input type="checkbox"/>	> centos6-x86_64-raw	Image	Active	Public	No	RAW	8.00 GB	LAUNCH
<input type="checkbox"/>	> centos7-x86_64	Image	Active	Public	No	QCOW2	897.75 MB	LAUNCH
<input type="checkbox"/>	> centos7-x86_64-raw	Image	Active	Public	No	RAW	8.00 GB	LAUNCH

Dashboard – Launch images

Launch (instantiate) an image



The screenshot shows the OpenStack Images dashboard. A red triangle is drawn over the table, pointing to the 'LAUNCH' button for the 'centos7-x86_64' image. The dashboard includes a sidebar with navigation links, a top header with the OpenStack logo and user 'tut001', and a main content area with a search bar and a table of images.

Project / Compute / Images

Images

Click here for filters or full text search. × + CREATE IMAGE DELETE IMAGES

Displaying 16 items

<input type="checkbox"/>	Name ^	Type	Status	Visibility	Protected	Disk Format	Size	
<input type="checkbox"/>	> centos6-x86_64	Image	Active	Public	No	QCOW2	755.88 MB	LAUNCH
<input type="checkbox"/>	> centos6-x86_64-raw	Image	Active	Public	No	RAW	8.00 GB	LAUNCH
<input type="checkbox"/>	> centos7-x86_64	Image	Active	Public	No	QCOW2	8.07.75 MB	LAUNCH
<input type="checkbox"/>	> centos7-x86_64-raw	Image	Active	Public	No	RAW	8.00 GB	LAUNCH

Launch instance - Details

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.

Instance Name *

Description

Availability Zone

nova

Count *

1

Total Instances (10 Max)

20%

1 Current Usage

1 Added

8 Remaining

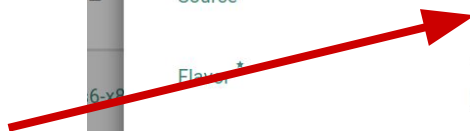
× CANCEL

← BACK

NEXT →

LAUNCH INSTANCE

Insert instance name



Launch instance - Image

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

Volume Size (GB) *

8

Create New Volume

YES NO

Delete Volume on Instance Delete

YES NO

Allocated

Name	Updated	Size	Type	Visibility
> centos7-x86_64-raw	8/9/19 7:44 AM	8.00 GB	raw	Public

Available 15

Select one

Click here for filters or full text search.

Name	Updated	Size	Type	Visibility
> centos6-x86_64	8/9/19 7:34 AM	755.88 MB	qcow2	Public
> centos6-x86_64-raw	8/9/19 7:39 AM	8.00 GB	raw	Public
> centos7-x86_64	8/9/19 7:39 AM	897.75 MB	qcow2	Public
> debian-10-amd64	8/9/19 7:51 AM	492.00 MB	qcow2	Public

Choose image
Set delete volume

Launch instance - Flavor

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
> svc2.s	2	2 GB	40 GB	40 GB	0 GB	Yes

Available 19

Select one

Click here for filters or full text search.

Name	VCPUS	RAM	Total Disk	Root Disk	Ephemeral Disk	Public
> svc1.xs	1	1 GB	10 GB	10 GB	0 GB	Yes
> svc1.s	1	2 GB	40 GB	40 GB	0 GB	Yes
> svc3.s	1	2 GB	750 GB	750 GB	0 GB	Yes
> svc3.m	2	4 GB	750 GB	750 GB	0 GB	Yes
> svc1.m	2	4 GB	40 GB	40 GB	0 GB	Yes
> svc2.m	4	4 GB	40 GB	40 GB	0 GB	Yes
> svc3.l	4	8 GB	750 GB	750 GB	0 GB	Yes

Choose flavor

Launch instance - Network

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= 1 > tutorial_net	tutorial_subnet	No	Up	Active

Available ¹
 Select at least one network

Click here for filters or full text search.

Network	Subnets Associated	Shared	Admin State	Status
> public_net	cnet_subnet public_subnet	Yes	Up	Active

× CANCEL

← BACK

NEXT →

LAUNCH INSTANCE

Choose network

Launch instance - Key pair

Add ssh public key if you plan to login through ssh

Launch Instance

Details

Source

Flavor

Networks

Network Ports

Security Groups

Key Pair

Configuration

Server Groups

Scheduler Hints

Metadata

A key pair allows you to SSH into your newly created instance. You may select an existing key pair, import a key pair, or generate a new key pair.

+ CREATE KEY PAIR

IMPORT KEY PAIR

Allocated

Displaying 0 items

Name	Type	Fingerprint
Select a key pair from the available key pairs below.		

Displaying 0 items

Available 0

Select one

Click here for filters or full text search.

Displaying 0 items

Name	Type	Fingerprint
No items to display.		

Displaying 0 items

CANCEL

BACK

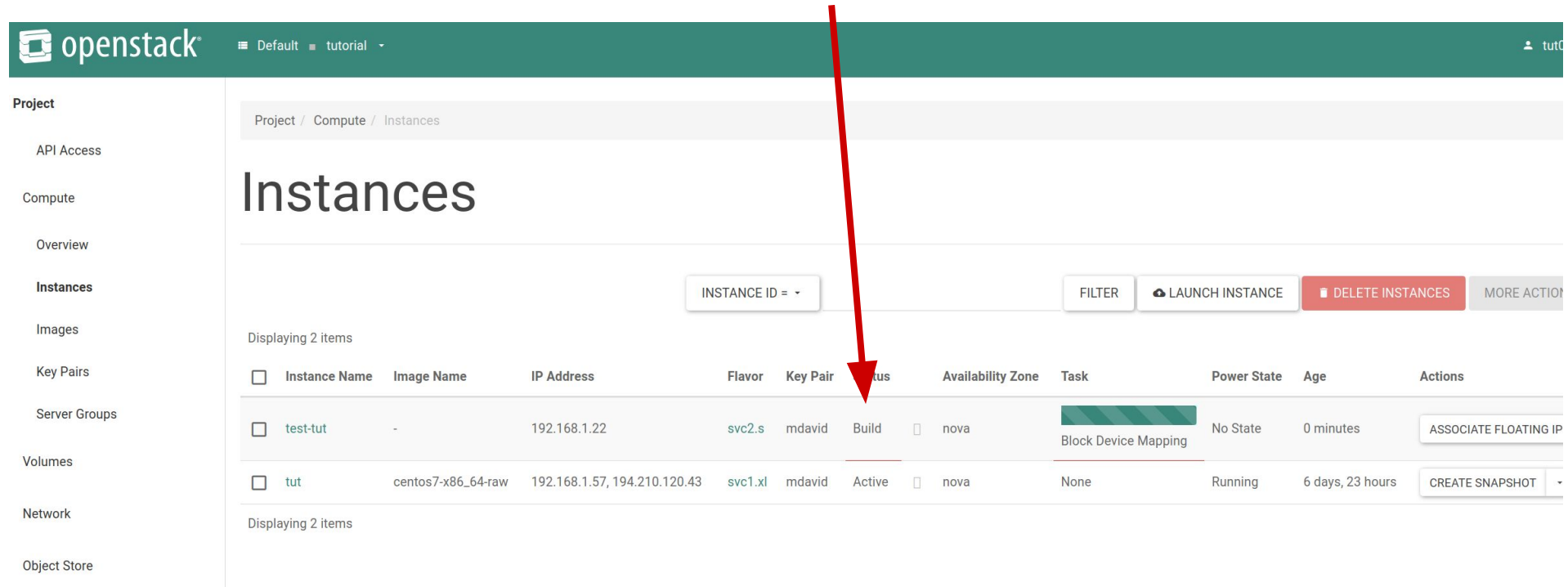
NEXT

LAUNCH INSTANCE

Launch the instance

Dashboard - Instances

Building - spawning



The screenshot shows the OpenStack dashboard interface. The left sidebar contains navigation links: Project, API Access, Compute, Overview, **Instances**, Images, Key Pairs, Server Groups, Volumes, Network, and Object Store. The main content area is titled 'Instances' and shows a table of instances. A red arrow points to the 'Build' status of the 'test-tut' instance.

Project / Compute / Instances

Instances

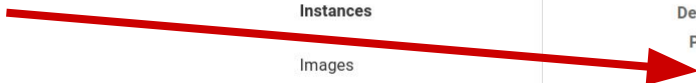
Displaying 2 items


<input type="checkbox"/>	Instance Name	Image Name	IP Address	Flavor	Key Pair	Status	Availability Zone	Task	Power State	Age	Actions
<input type="checkbox"/>	test-tut	-	192.168.1.22	svc2.s	mdavid	Build	nova	Block Device Mapping	No State	0 minutes	ASSOCIATE FLOATING IP
<input type="checkbox"/>	tut	centos7-x86_64-raw	192.168.1.57, 194.210.120.43	svc1.xl	mdavid	Active	nova	None	Running	6 days, 23 hours	CREATE SNAPSHOT

Displaying 2 items

Instance - detailed information

Active - running




Default tutorial

Project

API Access

Compute

Overview

Instances

Images

Key Pairs

Server Groups

Volumes

Network

Object Store

Identity

test-tut

Overview

Interfaces

Log

Console

Action Log

Name	test-tut
ID	f6b36cb2-7b59-47e1-860a-dd32c2fe60c8
Description	-
Project ID	e51b8a89b30945adbf52a5d568912e4c
Status	Active
Locked	False
Availability Zone	nova
Created	Sept. 6, 2019, 2:43 p.m.
Age	0 minutes

Specs


Flavor Name	svc2.s
Flavor ID	47a96ab3-4905-4ec6-8d50-0babac3c6e06
RAM	2GB
VCPUs	2 VCPU
Disk	40GB

IP Addresses

tutorial_net	192.168.1.22
--------------	--------------

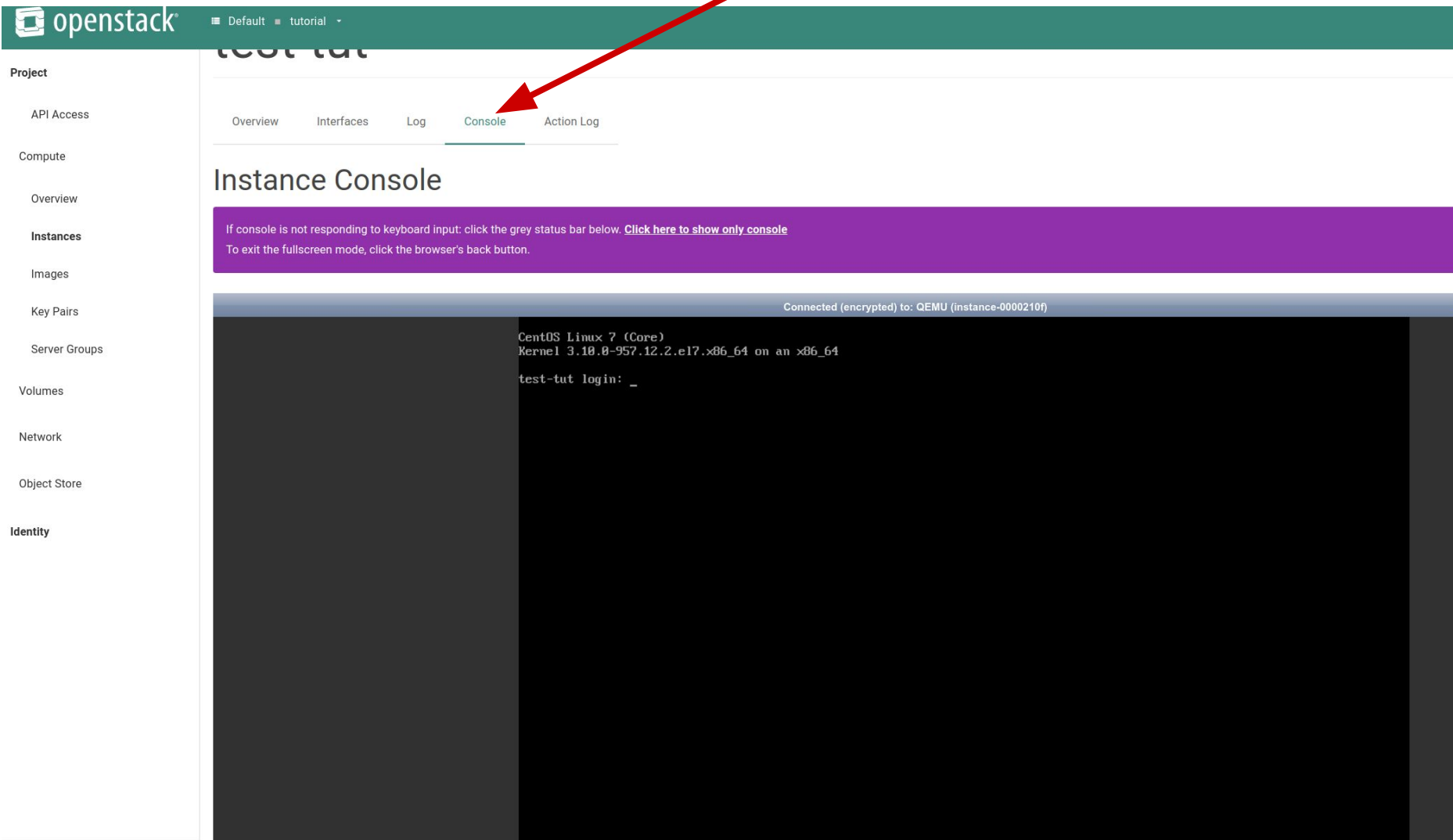
Security Groups

default	ALLOW IPv4 from default ALLOW IPv4 icmp from 0.0.0.0/0 ALLOW IPv6 to ::/0 ALLOW IPv4 22/tcp from 0.0.0.0/0 ALLOW IPv6 from default ALLOW IPv4 to 0.0.0.0/0
---------	---


 CC BY

13

Instance console



The screenshot shows the OpenStack Instance Console interface. The top navigation bar includes the OpenStack logo and a dropdown menu with 'Default' and 'tutorial'. The left sidebar lists various OpenStack services: Project, API Access, Compute, Overview, Instances, Images, Key Pairs, Server Groups, Volumes, Network, Object Store, and Identity. The main content area has tabs for 'Overview', 'Interfaces', 'Log', 'Console', and 'Action Log'. The 'Console' tab is selected, and a red arrow points to it. Below the tabs, the title 'Instance Console' is displayed. A purple banner contains instructions: 'If console is not responding to keyboard input: click the grey status bar below. [Click here to show only console](#). To exit the fullscreen mode, click the browser's back button.' The console window shows the text 'Connected (encrypted) to: QEMU (instance-0000210f)' and the CentOS Linux 7 (Core) boot output: 'CentOS Linux 7 (Core) Kernel 3.10.0-957.12.2.el7.x86_64 on an x86_64 test-tut login: _'.

Associate floating (Public) IP

Instances

INSTANCE ID = ▾

Displaying 2 items

<input type="checkbox"/>	Instance Name	Image Name	IP Address	Flavor	Key Pair	Status	Availability Zone	Task	Power State	Age	Actions
<input type="checkbox"/>	test-tut	centos7-x86_64-raw	192.168.1.22	svc2.s	mdavid	Active	nova	None	Running	2 minutes	<input type="button" value="CREATE SNAPSHOT"/>
<input type="checkbox"/>	tut	centos7-x86_64-raw	192.168.1.57, 194.210.120.43	svc1.xl	mdavid	Active	nova	None	Running	6 days, 23 hours	<input type="button" value="ASSOCIATE FLOATING IP"/> <input type="button" value="ATTACH INTERFACE"/> <input type="button" value="DETACH INTERFACE"/> <input type="button" value="EDIT INSTANCE"/> <input type="button" value="ATTACH VOLUME"/> <input type="button" value="DETACH VOLUME"/> <input type="button" value="UPDATE METADATA"/>

Displaying 2 items

Manage Floating IP Associations

IP Address *

NO FLOATING IP ADDRESSES ALLOCATED

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

Port to be associated *

TEST-TUT: 192.168.1.22

Allocate Floating IP

Pool *

PUBLIC_NET

Description:

Allocate a floating IP from a given floating IP pool.

Description

Project Quotas

Floating IP 1 of 50 Used

Manage Floating IP Associations

IP Address *

194.210.120.123

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

Port to be associated *

TEST-TUT: 192.168.1.22

Instances

Displaying 2 items

<input type="checkbox"/>	Instance Name	Image Name	IP Address	Flavor	Key Pair	Status	Availability Zone	Task	Power State
<input type="checkbox"/>	test-tut	centos7-x86_64-raw	192.168.1.22	svc2.s	mdavid	Active	nova	None	Running
<input type="checkbox"/>	tut	centos7-x86_64-raw	192.168.1.57, 194.210.120.43	svc1.xl	mdavid	Active	nova	None	Running

Displaying 2 items

Associate floating (Public) IP

Instances

INSTANCE ID = ▾

Displaying 2 items

<input type="checkbox"/>	Instance Name	Image Name	IP Address	Flavor	Key Pair	Status	Availability Zone	Task	Power State	Age	Actions
<input type="checkbox"/>	test-tut	centos7-x86_64-raw	192.168.1.22	svc2.s	mdavid	Active	nova	None	Running	2 minutes	<input type="button" value="CREATE SNAPSHOT"/>
<input type="checkbox"/>	tut	centos7-x86_64-raw	192.168.1.57, 194.210.120.43	svc1.xl	mdavid	Active	nova	None	Running	6 days, 23 hours	<input type="button" value="ASSOCIATE FLOATING IP"/> <input type="button" value="ATTACH INTERFACE"/>

Instances

INSTANCE ID = ▾

Displaying 2 items

<input type="checkbox"/>	Instance Name	Image Name	IP Address	Flavor	Key Pair	Status
<input type="checkbox"/>	test-tut	centos7-x86_64-raw	192.168.1.22, 194.210.120.123	svc2.s	mdavid	Active


Port to be associated *

TEST-TUT: 192.168.1.22

ssh to VM

```
david@pcdavid:~$  
david@pcdavid:~$ ssh centos@194.210.120.123  
Warning: Permanently added '194.210.120.123' (ECDSA) to the list of known hosts.  
X11 forwarding request failed on channel 0  
[centos@test-tut ~]$
```

Dashboard – Network topology


Default tutorial

Project

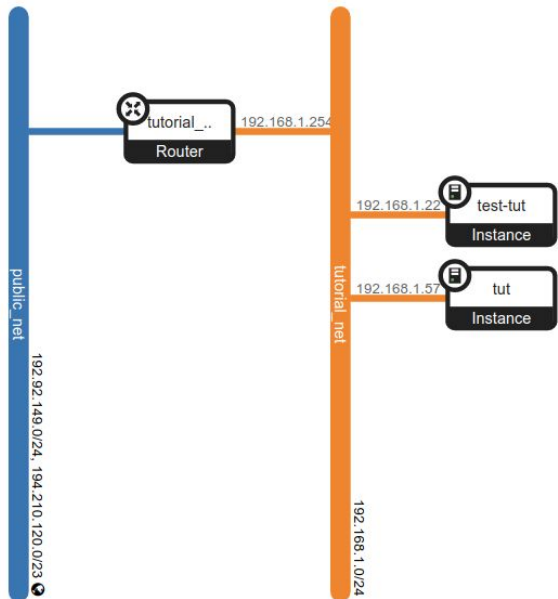
- API Access
- Compute
- Volumes
- Network
 - Network Topology**
 - Networks
 - Routers
 - Security Groups
 - Floating IPs
 - Object Store
- Identity

Project / Network / Network Topology

Network Topology

Topology Graph

SMALL NORMAL



```

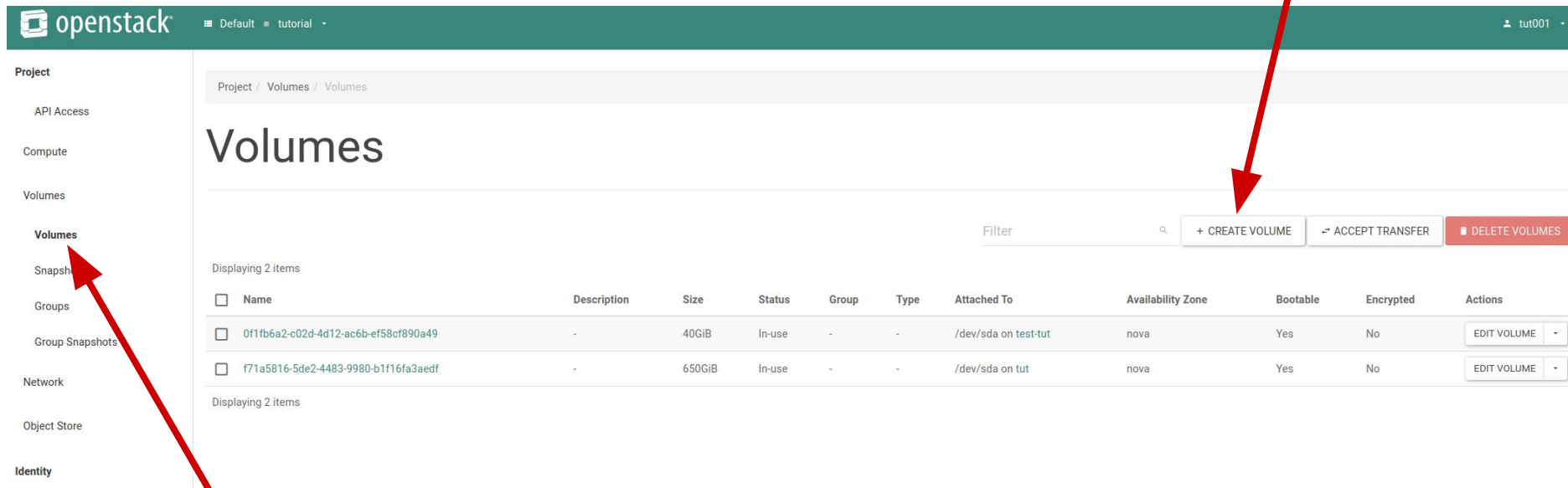
graph LR
    PublicNet[public_net  
192.92.149.0/24, 194.210.120.0/23] --- Router[tutorial_...  
Router]
    Router --- TutorialNet[tutorial_net  
192.168.1.0/24]
    TutorialNet --- testTut[test-tut  
Instance]
    TutorialNet --- tut[tut  
Instance]
  
```

The diagram illustrates a network topology. On the left, a blue vertical bar represents the **public_net** with IP ranges 192.92.149.0/24 and 194.210.120.0/23. A line connects this to a **Router** icon labeled **tutorial_...**. The router is connected to an orange vertical bar representing the **tutorial_net** with IP range 192.168.1.0/24. From the tutorial_net, two lines connect to instance icons: **test-tut** (Instance) and **tut** (Instance). IP addresses are shown on the connections: 192.168.1.254 between the router and tutorial_net, 192.168.1.22 between tutorial_net and test-tut, and 192.168.1.57 between tutorial_net and tut.

LAUNCH INSTANCE
+ CREATE NETWORK
+ CREATE ROUTER

Dashboard – Volumes

Create a volume



openstack | Default | tutorial | tut001

Project / Volumes / Volumes

Volumes

Filter [] + CREATE VOLUME ACCEPT TRANSFER DELETE VOLUMES

Displaying 2 items

<input type="checkbox"/>	Name	Description	Size	Status	Group	Type	Attached To	Availability Zone	Bootable	Encrypted	Actions
<input type="checkbox"/>	0f1fb6a2-c02d-4d12-ac6b-ef58cf890a49	-	40GiB	In-use	-	-	/dev/sda on test-tut	nova	Yes	No	EDIT VOLUME -
<input type="checkbox"/>	f71a5816-5de2-4483-9980-b1f16fa3aedef	-	650GiB	In-use	-	-	/dev/sda on tut	nova	Yes	No	EDIT VOLUME -

Displaying 2 items

Volumes

Dashboard – Create a Volume

Volume name

Volume size

×

Create Volume

Volume Name

test-vol

Description

Volume Source

NO SOURCE, EMPTY VOLUME

Type

NO VOLUME TYPE

Size (GiB) *

10

Availability Zone

NOVA

Group ?

NO GROUP

Description:

Volumes are block devices that can be attached to instances.

Volume Type Description:

If "No volume type" is selected, the volume will be created without a volume type.

Volume Limits

Total Gibibytes

690 of 5,000 GiB Used

Number of Volumes

2 of 150 Used

CANCEL

CREATE VOLUME

Create volume

Dashboard – Volumes

Volumes

Displaying 3 items

Filter

[+ CREATE VOLUME](#)
[← ACCEPT TRANSFER](#)
[DELETE VOLUMES](#)

<input type="checkbox"/>	Name	Description	Size	Status	Group	Type	Attached To	Availability Zone	Bootable	Encrypted	Actions
<input type="checkbox"/>	test-vol	-	10GiB	Available	-	-		nova	No	No	EDIT VOLUME
<input type="checkbox"/>	0f1fb6a2-02d-4d12-ac6b-ef58cf890a49	-	40GiB	In-use	-	-	/dev/sda on test-tut	nova	Yes	No	EXPAND VOLUME MANAGE ATTACHMENTS CREATE SNAPSHOT CHANGE VOLUME TYPE UPLOAD TO IMAGE CREATE TRANSFER DELETE VOLUME UPDATE METADATA
<input type="checkbox"/>	f71a5816-5c2-4483-9980-b1f16fa3aedd	-	650GiB	In-use	-	-	/dev/sda on tut	nova	Yes	No	

Displaying 3 items

Attach to instance

Newly created Volume

Dashboard – Attach Volume

×

Manage Volume Attachments

Instance	Device	Actions
No items to display.		

Attach To Instance

Attach to Instance ?

TEST-TUT (F6B36CB2-7B59-47E1-860A-DD32C2FE60C8)

CANCEL

ATTACH VOLUME

Select which instance to attach volume

Attach to instance

Dashboard – Attach Volume

Default
tutorial

Status

Active

Locked

False

Availability Zone

nova

Created

Sept. 6, 2019, 2:43 p.m.

Age

1 week, 2 days

Specs

Flavor Name

svc2.s

Flavor ID

47a96ab3-4905-4ec6-8d50-0babac3c6e06

RAM

2GB

VCPUs

2 VCPU

Disk

40GB

IP Addresses

tutorial_net

192.168.1.22, 194.210.120.123

Security Groups

default

ALLOW IPv4 from default
 ALLOW IPv4 icmp from 0.0.0.0/0
 ALLOW IPv6 to ::/0
 ALLOW IPv4 22/tcp from 0.0.0.0/0
 ALLOW IPv6 from default
 ALLOW IPv4 to 0.0.0.0/0

Metadata

Key Name

mdavid

Image

None

Volumes Attached

Attached To

0f1fb6a2-c02d-4d12-ac6b-ef58cf890a49 on /dev/sda

Attached To

test-vol on /dev/sdb

Volume device in VM

Console - Partitions

Check partition table

Format device

```
[centos@test-tut ~]$ cat /proc/partitions
major minor #blocks name
 8         0  41943040 sda
 8         1  41941999 sda1
 8        16  10485760 sdb

[centos@test-tut ~]$ sudo mkfs.xfs /dev/sdb
meta-data=/dev/sdb            isize=512    agcount=4, agsize=655360 blks
               =               sectsz=512    attr=2, projid32bit=1
               =               crc=1        finobt=0, sparse=0
data        =               bsize=4096    blocks=2621440, imaxpct=25
               =               sunit=0      swidth=0 blks
naming      =version 2        bsize=4096    ascii-ci=0 ftype=1
log         =internal log    bsize=4096    blocks=2560, version=2
               =               sectsz=512    sunit=0 blks, lazy-count=1
realtime    =none            extsz=4096    blocks=0, rtextents=0
```

Formatted device

```
[centos@test-tut ~]$ sudo parted /dev/sdb
GNU Parted 3.1
Using /dev/sdb
Welcome to GNU Parted! Type 'help' to view a list of commands.
(parted) print
Model: QEMU QEMU HARDDISK (scsi)
Disk /dev/sdb: 10,7GB
Sector size (logical/physical): 512B/512B
Partition Table: loop
Disk Flags:



Number  Start   End     Size    File system  Flags
  1      0,00B   10,7GB  10,7GB  xfs

(parted) 
```


Dashboard – Create a snapshot

Create snapshot - live instance

Instances

INSTANCE ID ▾ FILTER  LAUNCH INSTANCE  DELETE INSTANCES MORE ACTIONS ▾

Displaying 2 items

<input type="checkbox"/>	Instance Name	Image Name	IP Address	Flavor	Key Pair	Status	Availability Zone	Task	Power State	Age	Actions
<input type="checkbox"/>	test-tut	centos7-x86_64-raw	192.168.1.22	svc2.s	mdavid	Active	nova	None	Running	2 minutes	CREATE SNAPSHOT ▾ ASSOCIATE FLOATING IP ATTACH INTERFACE DETACH INTERFACE EDIT INSTANCE ATTACH VOLUME DETACH VOLUME UPDATE METADATA EDIT SECURITY GROUPS EDIT PORT SECURITY GROUPS CONSOLE
<input type="checkbox"/>	tut	centos7-x86_64-raw	192.168.1.57, 194.210.120.43	svc1.xl	mdavid	Active	nova	None	Running	6 days, 23 hours	

Displaying 2 items

Dashboard – Create a snapshot

Create Snapshot

Snapshot Name *

Description:

A snapshot is an image which preserves the disk state of a running instance.

CANCEL

CREATE SNAPSHOT

IP Address	Flavor	Key Pair	Status	Availability Zone
192.168.1.22, 194.210.120.123	svc2.s	mdavid	Active	nova
192.168.1.57, 194.210.120.43	svc1.xl	mdavid	Active	nova

Snapshot name

Create snapshot

Dashboard – Show snapshot

Images

Click here for filters or full text search.

+ CREATE IMAGE

DELETE IMAGES

Displaying 17 items

<input type="checkbox"/> Name ▾	Type	Status	Visibility	Protected	Disk Format	Size	
<input type="checkbox"/> > ubuntu-19.04-amd64-raw	Image	Active	Public	No	RAW	2.20 GB	LAUNCH ▾
<input type="checkbox"/> > ubuntu-19.04-amd64	Image	Active	Public	No	QCOW2	473.19 MB	LAUNCH ▾
<input type="checkbox"/> > ubuntu-18.04-amd64-raw	Image	Active	Public	No	RAW	2.20 GB	LAUNCH ▾
<input type="checkbox"/> > ubuntu-18.04-amd64	Image	Active	Public	No	QCOW2	327.63 MB	LAUNCH ▾
<input type="checkbox"/> > ubuntu-16.04-amd64-raw	Image	Active	Public	No	RAW	2.20 GB	LAUNCH ▾
<input type="checkbox"/> > ubuntu-16.04-amd64	Image	Active	Public	No	QCOW2	282.75 MB	LAUNCH ▾
<input type="checkbox"/> > test-snap	Snapshot	Active	Private	No	QCOW2	0 bytes	LAUNCH ▾

Dashboard – Show snapshot

test-snap

Image

ID	affb1b5c-ed90-4b26-af60-99fd1e28caa2
Type	
Status	Active
Size	0 bytes
Min. Disk	40
Min. RAM	0
Disk Format	QCOW2
Container Format	BARE
Created At	9/16/19 12:01 PM
Updated At	9/16/19 12:02 PM

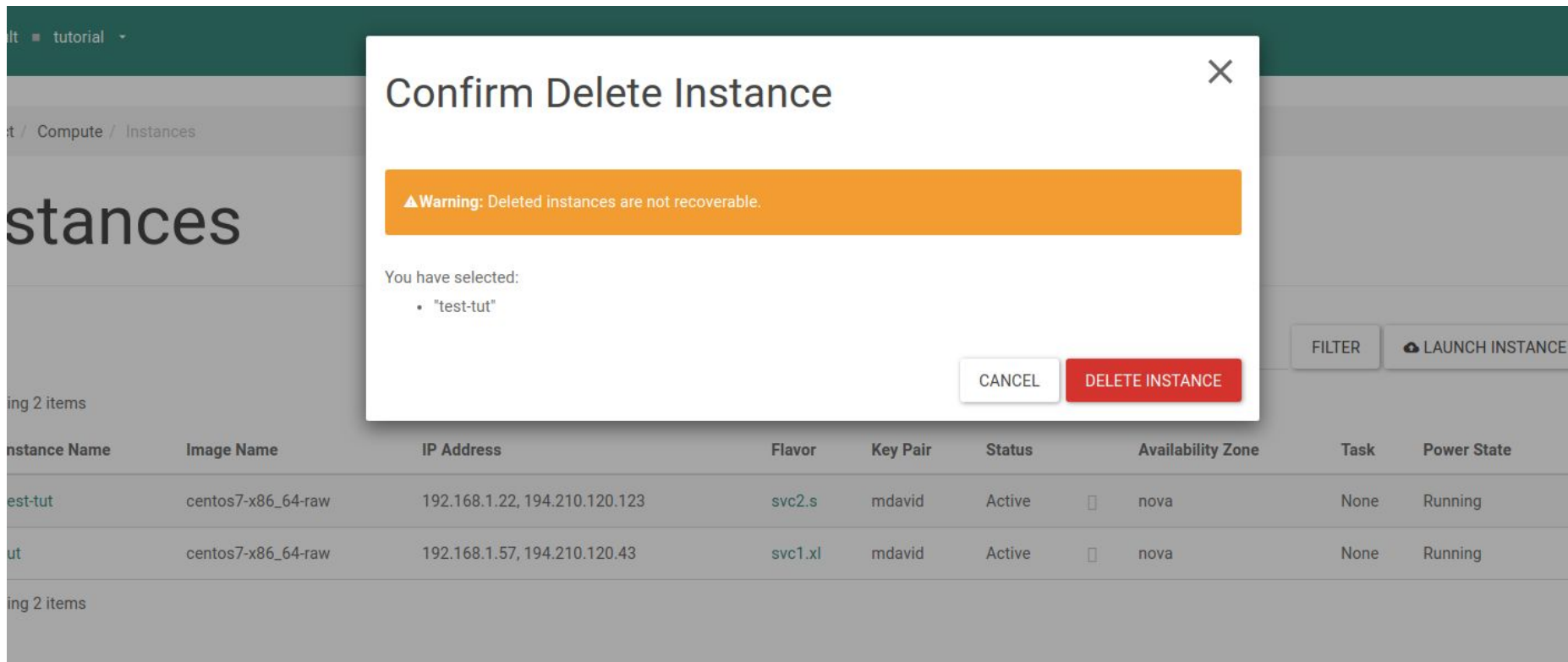
Security

Owner	e51b8a89b30945adbf52a5d568912e4c
Filename	-
Visibility	Private
Protected	No
Checksum	d41d8cd98f00b204e9800998ecf8427e

Custom Properties

bdm_v2	True
Virtual Size	
os_hash_value	cf83e1357eefb8bdf1542850d66d8007d620e4050b5715dc83f4a921d36ce9ce47d0d13c5d85f2b0ff8318d2877eec2f63b931bd47417a81a538327af927da3e
os_require_quiesce	yes
Tags	
locations	[{"url": "rbd://3db72b11-6b19-477b-b947-02d735c745c5/images/affb1b5c-ed90-4b26-af60-99fd1e28caa2/snap", "metadata": {}}]
hw_qemu_guest_agent	yes
block_device_mapping	[{"guest_format": null, "boot_index": 0, "delete_on_termination": true, "no_device": null, "snapshot_id": "4964c42a-80a5-4a9b-9e5b-4314a5781d47", "volume_type": null, "device_name": "/dev/sda", "disk_bus": "scsi", "image_id": null, "source_type": "snapshot", "tag": null, "device_type": "disk", "volume_id": null, "destination_type": "volume", "volume_size": 40}, {"guest_format": null, "boot_index": null, "delete_on_termination": false, "no_device": null, "snapshot_id": "74712e83-4963-439d-81a1-531b1bd3d4c5", "volume_type": null, "device_name": "/dev/sdb", "disk_bus": null, "image_id": null, "source_type": "snapshot", "tag": null, "device_type": null, "volume_id": null, "destination_type": "volume", "volume_size": 10}]
os_hidden	false

Dashboard – Terminate instance



Confirm Delete Instance

⚠ Warning: Deleted instances are not recoverable.

You have selected:

- "test-tut"

CANCEL DELETE INSTANCE

Instance Name	Image Name	IP Address	Flavor	Key Pair	Status	Availability Zone	Task	Power State
test-tut	centos7-x86_64-raw	192.168.1.22, 194.210.120.123	svc2.s	mdavid	Active	nova	None	Running
tut	centos7-x86_64-raw	192.168.1.57, 194.210.120.43	svc1.xl	mdavid	Active	nova	None	Running