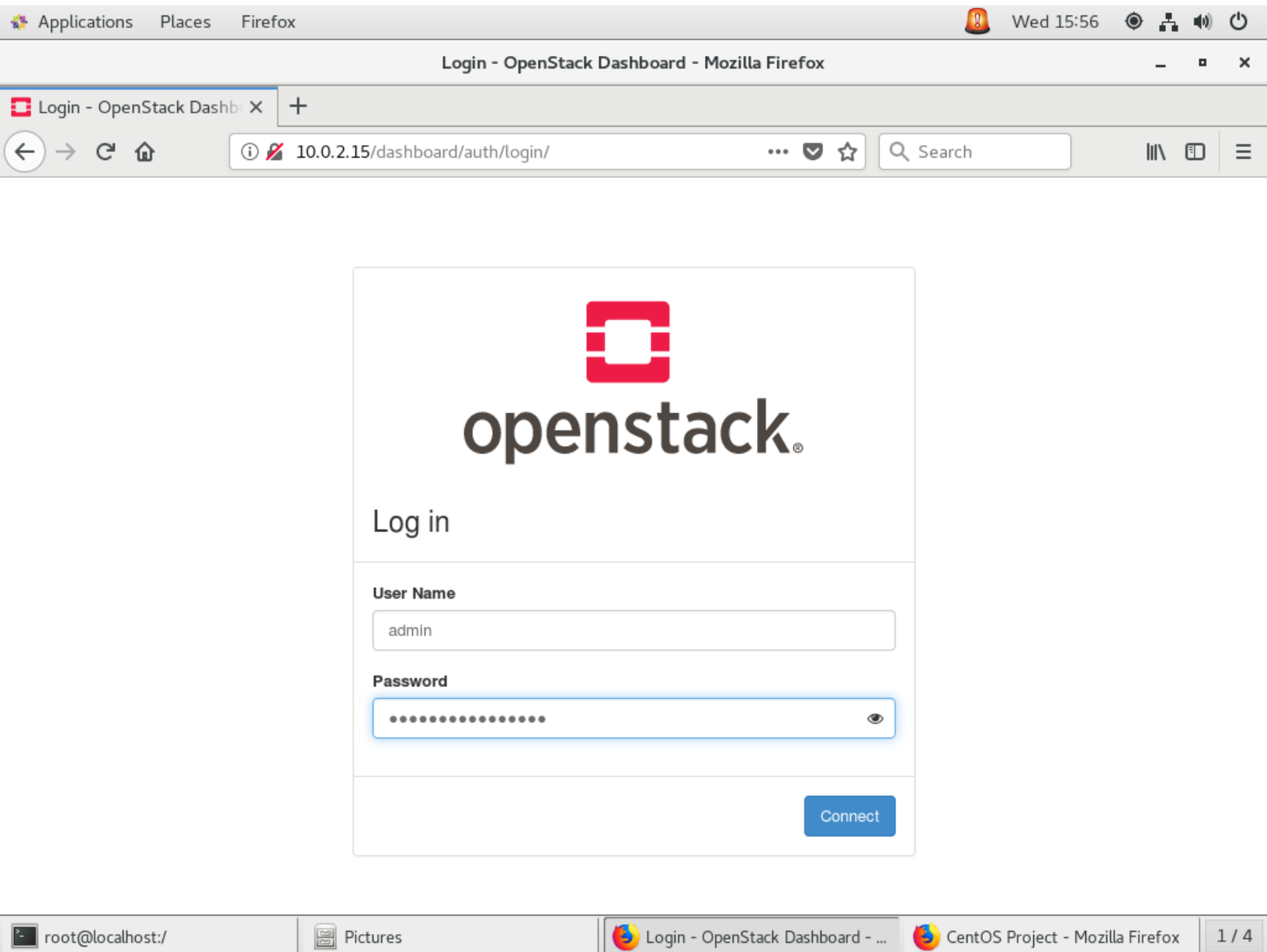


OpenStack Instance Deployment in CentOS

After installing OpenStack in CentOS, We deployed a CirrOS(minimal linux) as an instacne in the cloud.

Login Page: OpenStack Dashboard



Project Overview:

Applications Places Firefox Wed 15:56

Projects - OpenStack Dashboard - Mozilla Firefox

Projects - OpenStack Dashboard

10.0.2.15/dashboard/identity/ Search

openstack admin admin

Project > Identity / Projects

Admin >

Identity > Projects

Users

Groups

Roles

Project Name = Filter + Create Project Delete Projects

Displaying 3 items

<input type="checkbox"/>	Name	Description	Project ID	Domain Name	Enabled	Actions
<input type="checkbox"/>	admin	admin tenant	133958c2003f4fe395b42e6b03710326	Default	Yes	Manage Members
<input type="checkbox"/>	services	Tenant for the openstack services	2c4acbc1b5224127995bf792ee5952e2	Default	Yes	Manage Members
<input type="checkbox"/>	demo	default tenant	f12eb46c7a30430d9cadfcd10e3ad1c0	Default	Yes	Manage Members

Displaying 3 items

root@localhost:/ Pictures Projects - OpenStack Dashboard - ... 1 / 4

Overview of Compute node deployed:

Applications Places Firefox Wed 15:57

Instance Overview - OpenStack Dashboard - Mozilla Firefox

Instance Overview - Open X +

10.0.2.15/dashboard/project/ Search

openstack admin admin

Project

API Access

Compute

Overview

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Key Pairs

Volumes

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Admin

Identity

Project / Compute / Overview

Overview

Limit Summary

 <p>Instances</p> <p>Used 1 of 10</p>	 <p>VCPUs</p> <p>Used 1 of 20</p>	 <p>RAM</p> <p>Used 512MB of 50GB</p>
 <p>Floating IPs</p> <p>Allocated 0 of 50</p>	 <p>Security Groups</p> <p>Used 1 of 10</p>	 <p>Volumes</p> <p>Used 1 of 10</p>
 <p>Volume Storage</p>		

10.0.2.15/dashboard/project/ root@localhost:/ Pictures Instance Overview - OpenStack Das... 1 / 4

Instance details

ApplicationsPlacesFirefox

Instances - OpenStack Dashboard - Mozilla Firefox

Instances - OpenStack Dashboard +

10.0.2.15/dashboard/project/instances/

Search

openstackadminadmin

Project

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Project / Compute / Instances

Instances

Instance ID = FilterLaunch InstanceDelete InstancesMore

Displaying 1 item

	Instance Name	Image Name	IP Address	Flavour	Key Pair	Status	Availability Zone	Task	Power State	Time since created	Actions
<input type="checkbox"/>	Trial	-	172.24.4.3	m1.tiny	TrialKey	Active	nova	None	Running	1 hour, 8 minutes	Create Snapshot

Displaying 1 item

root@localhost:/

Pictures

Instances - OpenStack Dashboard - ...

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Instance Overview

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Project / Compute / Instances / Trial

Trial

Create Snapshot

OverviewLogConsoleAction Log

Name

Description

ID

Status

Locked

Availability Zone

Created

Time Since Created

Host

Trial

A Trial instance

ee39e704-85dc-4a20-921f-ea6e97515358

Active

False

nova

25 Jul 2018, 9:19 a.m.

1 hour, 9 minutes

localhost.localdomain

Specs

Flavour Name

Flavour ID

RAM

VCPUs

Disk

m1.tiny

1

512MB

1 VCPU

1GB

IP Addresses

Public

172.24.4.3

Security Groups

default

ALLOW IPv4 to 0.0.0.0/0

ALLOW IPv4 from default

ALLOW IPv6 to ::/0

ALLOW IPv6 from default

ALLOW IPv4 80/tcp from 0.0.0.0/0

Metadata

Key Name

Image

TrialKey

None

Volumes Attached

Attached To [7710c740-9b9f-41f6-9a6b-a187ec9f097e](#) on /dev/vda

root@localhost:/

Pictures

Trial - OpenStack Dashboard - Mozil... 1 / 4

CirrosOS Instance Console

Applications Places Firefox Wed 16:05

Trial(ee39e704-85dc-4a20-921f-ea6e97515358) - Mozilla Firefox

10.0.2.15:6080/vnc_auto.html?token=98e9d867-dc88-4605-8c2f-85d9a323b0ba&title=Trial... ☆

Connected (unencrypted) to: QEMU (instance-00000001) Send CtrlAltDel

```
[ 3.488177] Magic number: 10:457:73
[ 3.507449] rtc_cmos 00:01: setting system clock to 2018-07-25 10:03:34 UTC (1532513014)
[ 3.508871] powernow-k8: Processor cpuid 6d3 not supported
[ 3.508871] BIOS EDD facility v0.16 2004-Jun-25, 0 devices found
[ 3.508871] EDD information not available.
[ 3.586117] Freeing unused kernel memory: 928k freed
[ 3.631524] Write protecting the kernel read-only data: 12288k
[ 3.681458] Freeing unused kernel memory: 1596k freed
[ 3.850772] Freeing unused kernel memory: 1184k freed

further output written to /dev/ttyS0

login as 'cirros' user. default password: 'cubswin:'. use 'sudo' for root.
cirros login: cirros
Password:
$ ls
$ cd /
$ ls
bin          home         linuxrc      old-root     run          usr
boot         init         lost+found   opt          sbin         var
dev          initrd.img  media        proc         sys          vmlinuz
etc          lib          mnt          root         tmp
$ _
```

10.0.2.15/dashboard/project/instances/ee39e704-85dc-4a20-921f-ea6e97515358/auto_console

root@localhost:/ Pictures Network Topology - OpenStack... Trial(ee39e704-85dc-4a20-921... 1 / 4

Instance Console Log

Images

Instance Console Log

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```

Jul 25 11:03:39 cirros kern.info kernel: [ 8.291470] acpiphp: Slot [15] registered
Jul 25 11:03:39 cirros kern.info kernel: [ 8.291470] acpiphp: Slot [16] registered
Jul 25 11:03:39 cirros kern.info kernel: [ 8.291470] acpiphp: Slot [17] registered
Jul 25 11:03:39 cirros kern.info kernel: [ 8.291470] acpiphp: Slot [18] registered
Jul 25 11:03:39 cirros kern.info kernel: [ 8.294468] acpiphp: Slot [19] registered
Jul 25 11:03:39 cirros kern.info kernel: [ 8.295028] acpiphp: Slot [20] registered
Jul 25 11:03:39 cirros kern.info kernel: [ 8.295567] acpiphp: Slot [21] registered
Jul 25 11:03:39 cirros kern.info kernel: [ 8.295921] acpiphp: Slot [22] registered
Jul 25 11:03:39 cirros kern.info kernel: [ 8.296254] acpiphp: Slot [23] registered
Jul 25 11:03:39 cirros kern.info kernel: [ 8.296484] acpiphp: Slot [24] registered
Jul 25 11:03:39 cirros kern.info kernel: [ 8.296837] acpiphp: Slot [25] registered
Jul 25 11:03:39 cirros kern.info kernel: [ 8.297359] acpiphp: Slot [26] registered
Jul 25 11:03:39 cirros kern.info kernel: [ 8.297594] acpiphp: Slot [27] registered
Jul 25 11:03:39 cirros kern.info kernel: [ 8.298035] acpiphp: Slot [28] registered
Jul 25 11:03:39 cirros kern.info kernel: [ 8.298766] acpiphp: Slot [29] registered
Jul 25 11:03:39 cirros kern.info kernel: [ 8.298999] acpiphp: Slot [30] registered
Jul 25 11:03:39 cirros kern.info kernel: [ 8.299435] acpiphp: Slot [31] registered
Jul 25 11:03:39 cirros kern.info kernel: [ 8.381089] e1000: Intel(R) PRO/1000 Network Driver - version 7
Jul 25 11:03:39 cirros kern.info kernel: [ 8.381299] e1000: Copyright (c) 1999-2006 Intel Corporation.
Jul 25 11:03:39 cirros kern.info kernel: [ 8.421545] ne2k-pci.c:v1.03 9/22/2003 D. Becker/P. Gortmaker
Jul 25 11:03:39 cirros kern.info kernel: [ 8.458997] 8139cp: 8139cp: 10/100 PCI Ethernet driver v1.3 (Ma
Jul 25 11:03:39 cirros kern.info kernel: [ 8.495356] pcnet32: pcnet32.c:v1.35 21.Apr.2008 tsbogend@alpha
Jul 25 11:03:39 cirros kern.info kernel: [ 8.547061] ip_tables: (C) 2000-2006 Netfilter Core Team
Jul 25 11:03:51 cirros kern.debug kernel: [ 20.996289] eth0: no IPv6 routers present
Jul 25 11:07:36 cirros authpriv.info dropbear[301]: Running in background
##### debug end #####

```

Image Details

ApplicationsPlacesFirefox

Images - OpenStack Dashboard - Mozilla Firefox

Images - OpenStack Dash X

10.0.2.15/dashboard/project/images

Search

admin

Project / Compute / Images

Project

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Click here for filters.

Create Image

Delete Images

Displaying 1 item

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

Displaying 1 item

root@localhost:/

Pictures

Images - OpenStack Dashboard - M...

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Key pairs details

ApplicationsPlacesFirefox

Key Pairs - OpenStack Dashboard - Mozilla Firefox

Key Pairs - OpenStack Da X

10.0.2.15/dashboard/project/key_pairs

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e

Click here for filters.

Create Key Pair

Import Public Key

Delete Key Pairs

Displaying 1 item

☐

Name ^

☐

> TrialKey

Delete Key Pair

Displaying 1 item

root@localhost:/

Pictures

Key Pairs - OpenStack Dashboard - ...

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Volume Details

Applications

Places

Firefox

Wed 16:04

Volumes - OpenStack Dashboard - Mozilla Firefox

Volumes - OpenStack Dashboard

+

10.0.2.15/dashboard/project/volumes/

...

☆

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openstack.

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Snapshots

Consistency Groups

Consistency Group Snapshots

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Project / Volumes / Volumes

Volumes

Filter

+ Create Volume

≡ Accept Transfer

Delete Volumes

Displaying 1 item

<input type="checkbox"/>	Name	Description	Size	Status	Type	Attached To	Availability Zone	Bootable	Encrypted	Actions
<input type="checkbox"/>	7710c740-9b9f-41f6-9a6b-a187ec9f097e	-	1GiB	In-use	iscsi	/dev/vda on Disk	nova	Yes	No	<div>Edit Volume</div>

Displaying 1 item

root@localhost:/

Pictures

Volumes - OpenStack Dashboard - ...

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Network Topology

ApplicationsPlacesFirefox

Wed 16:04

Network Topology - OpenStack Dashboard - Mozilla Firefox

Network Topology - Open X

10.0.2.15/dashboard/project/network_topology/

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openstack.

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Launch Instance

Create Network

Create Router

ApplicationsPlacesFirefox

Wed 16:10

Network Topology - OpenStack Dashboard - Mozilla Firefox

Network Topology - Open X

10.0.2.15/dashboard/project/network_topology/

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Launch Instance

Create Network

Create Router

Toggle Labels

Toggle Network Collapse

public

ID 649476a0-eb6b-4780-a734-38bd5b1781b7

STATUS Active

Subnets

456c52d4-55... 172.24.4.0/24

Create Subnet

Delete Subnet

View Details

root@localhost:/

Pictures

Network Topology - OpenStack Da...

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Networks

ApplicationsPlacesFirefox

Wed 16:10

Networks - OpenStack Dashboard - Mozilla Firefox

Networks - OpenStack Dashboard

10.0.2.15/dashboard/project/networks/

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Networks

Name =

Filter

+ Create Network

Delete Networks

Displaying 1 item

	Name	Subnets Associated	Shared	External	Status	Admin State	Availability Zones	Actions
<input type="checkbox"/>	public	public_subnet 172.24.4.0/24	No	Yes	Active	UP	nova	Edit Network

Displaying 1 item

10.0.2.15/dashboard/project/routers/

root@localhost:/

Pictures

Networks - OpenStack Dashboard - ...

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Security Groups

ApplicationsPlacesFirefox

Security Groups - OpenStack Dashboard - Mozilla Firefox

Security Groups - OpenStack Dashboard

10.0.2.15/dashboard/project/security_groups/

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Security Groups

Filter

Create Security Group

Delete Security Groups

Displaying 1 item

	Name	Security Group ID	Description	Actions
<input type="checkbox"/>	default	13e27655-04a8-450e-997a-c39e12befc72	Default security group	Manage Rules

Displaying 1 item

root@localhost:/

Pictures

Security Groups - OpenStack Dashb...

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Orchestration Overview

Applications Places Firefox Wed 16:11

Usage Overview - OpenStack Dashboard - Mozilla Firefox

Usage Overview - OpenStack Dashboard

10.0.2.15/dashboard/admin/ Search

openstack admin admin

Overview

- Compute
- Volume
- Network
- System
- Identity

Overview

Usage Summary

Select a period of time to query its usage:
The date should be in YYYY-MM-DD format.

2018-07-24 to 2018-07-25 [Submit](#)

Active Instances: 1
Active RAM: 512MB
This Period's VCPU-Hours: 1.34
This Period's GB-Hours: 1.34
This Period's RAM-Hours: 687.65

Usage

[Download CSV Summary](#)

Displaying 1 item

Project Name	VCPU	Disk	RAM	VCPU Hours	Disk GB Hours	Memory MB Hours
admin	1	1GB	512MB	1.34	1.34	687.65

Displaying 1 item

root@localhost:/ Pictures Usage Overview - OpenStack Dashb... 1 / 4

Hypervisors

ApplicationsPlacesFirefox

Wed 16:11

Hypervisors - OpenStack Dashboard - Mozilla Firefox

Hypervisors - OpenStack

10.0.2.15/dashboard/admin/hypervisors/

Search

admin

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All Hypervisors


Hypervisor Summary



VCPU Usage
Used 1 of 2



Memory Usage
Used 1GB of 11.6GB



Local Disk Usage
Used 1GB of 23GB

Hypervisor

Compute Host

Displaying 1 item

Hostname	Type	VCPUs (used)	VCPUs (total)	RAM (used)	RAM (total)	Local Storage (used)	Local Storage (total)	Instances
localhost.localdomain	QEMU	1	2	1GB	11.6GB	1GB	23GB	1

Displaying 1 item

10.0.2.15/dashboard/admin/hypervisors/?tab=hypervisor_info__compute_host

root@localhost:/

Pictures

Hypervisors - OpenStack Dashboard...

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Host Aggregates

ApplicationsPlacesFirefox

Host Aggregates - OpenStack Dashboard - Mozilla Firefox

Host Aggregates - OpenS X

10.0.2.15/dashboard/admin/aggregates/

Search

openstack.adminadmin

ProjectAdminOverviewComputeHypervisorsHost AggregatesInstancesFlavoursImagesVolumeNetworkSystemIdentity

Admin / Compute / Host Aggregates

Host Aggregates

Host AggregatesFilter+ Create Host Aggregate

Name	Availability Zone	Hosts	Metadata	Actions
No items to display.				

Availability Zones

Filter

Displaying 2 items

Availability Zone Name	Hosts	Available
internal	localhost.localdomain (Services Up)	Yes
nova	localhost.localdomain (Services Up)	Yes

Displaying 2 items

root@localhost:/PicturesHost Aggregates - OpenStack Dash...1 / 4

Flavours

ApplicationsPlacesFirefox

Flavours - OpenStack Dashboard - Mozilla Firefox

Flavours - OpenStack Dashboard

10.0.2.15/dashboard/admin/flavors/

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Flavors

Filter>Create FlavourDelete Flavours

Displaying 5 items

	Flavour Name	VCPUs	RAM	Root Disk	Ephemeral Disk	Swap Disk	RX/TX factor	ID	Public	Metadata	Actions
<input type="checkbox"/>	m1.large	4	8GB	80GB	0GB	0MB	1.0	4	Yes	No	Update Metadata
<input type="checkbox"/>	m1.medium	2	4GB	40GB	0GB	0MB	1.0	3	Yes	No	Update Metadata
<input type="checkbox"/>	m1.small	1	2GB	20GB	0GB	0MB	1.0	2	Yes	No	Update Metadata
<input type="checkbox"/>	m1.tiny	1	512MB	1GB	0GB	0MB	1.0	1	Yes	No	Update Metadata
<input type="checkbox"/>	m1.xlarge	8	16GB	160GB	0GB	0MB	1.0	5	Yes	No	Update Metadata

Displaying 5 items

root@localhost:/

Pictures

Flavours - OpenStack Dashboard - ...

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Overall Networks

ApplicationsPlacesFirefox

Wed 16:13

Networks - OpenStack Dashboard - Mozilla Firefox

Networks - OpenStack Dashboard

10.0.2.15/dashboard/admin/networks/

Search

admin

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Admin / Network / Networks

Networks

Project = Filter + Create Network Delete Networks

Displaying 2 items

Project	Network Name	Subnets Associated	DHCP Agents	Shared	External	Status	Admin State	Availability Zones	Actions
<input type="checkbox"/> admin	public	public_subnet 172.24.4.0/24	1	No	Yes	Active	UP	nova	Edit Network
<input type="checkbox"/> demo	private	private_subnet 10.0.0.0/24	1	No	No	Active	UP	nova	Edit Network

Displaying 2 items

10.0.2.15/dashboard/admin/routers/

root@localhost:/

Pictures

Networks - OpenStack Dashboard - ...

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Routers

ApplicationsPlacesFirefox

Wed 16:13

Routers - OpenStack Dashboard - Mozilla Firefox

Routers - OpenStack Dasl X

+

10.0.2.15/dashboard/admin/routers/

Search

openstack.

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Admin / Network / Routers

Routers

Router Name =

Filter

Delete Routers

Displaying 1 item

	Project	Name	Status	External Network	Availability Zones	Admin State	Actions
<input type="checkbox"/>	demo	router1	Active	public	nova	UP	Edit Router

Displaying 1 item

root@localhost:/

Pictures

Routers - OpenStack Dashboard - M...

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System Information

Applications

Places

Firefox

Wed 16:14

System Information - OpenStack Dashboard - Mozilla Firefox

System Information - Ope X

+

10.0.2.15/dashboard/admin/info/

...

☆

Search

↓

≡

openstack.

admin

admin

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Admin / System / System Information

System Information

Services

Compute Services

Block Storage Services

Network Agents

Filter

Displaying 10 items

Name	Service	Region	Endpoints
keystone	identity	RegionOne	<div>Admin http://10.0.2.15:35357/v3</div> <div>Internal http://10.0.2.15:5000/v3</div> <div>Public http://10.0.2.15:5000/v3</div>
heat	orchestration	RegionOne	<div>Admin http://10.0.2.15:8004/v1/133958c2003f4fe395b42e6b03710326</div> <div>Internal http://10.0.2.15:8004/v1/133958c2003f4fe395b42e6b03710326</div> <div>Public http://10.0.2.15:8004/v1/133958c2003f4fe395b42e6b03710326</div>
neutron	network	RegionOne	<div>Admin http://10.0.2.15:9696</div> <div>Internal http://10.0.2.15:9696</div> <div>Public http://10.0.2.15:9696</div>
placement	placement	RegionOne	<div>Admin http://10.0.2.15:8778/placement</div> <div>Internal http://10.0.2.15:8778/placement</div> <div>Public http://10.0.2.15:8778/placement</div>
nova	compute	RegionOne	<div>Admin http://10.0.2.15:8774/v2.1/133958c2003f4fe395b42e6b03710326</div> <div>Internal http://10.0.2.15:8774/v2.1/133958c2003f4fe395b42e6b03710326</div> <div>Public http://10.0.2.15:8774/v2.1/133958c2003f4fe395b42e6b03710326</div>
glance	image	RegionOne	<div>Admin http://10.0.2.15:9292</div> <div>Internal http://10.0.2.15:9292</div> <div>Public http://10.0.2.15:9292</div>
cinder	volume	RegionOne	<div>Admin http://10.0.2.15:8776/v1/133958c2003f4fe395b42e6b03710326</div> <div>Internal http://10.0.2.15:8776/v1/133958c2003f4fe395b42e6b03710326</div> <div>Public http://10.0.2.15:8776/v1/133958c2003f4fe395b42e6b03710326</div>
cinderv3	volumev3	RegionOne	<div>Admin http://10.0.2.15:8776/v3/133958c2003f4fe395b42e6b03710326</div> <div>Internal http://10.0.2.15:8776/v3/133958c2003f4fe395b42e6b03710326</div> <div>Public http://10.0.2.15:8776/v3/133958c2003f4fe395b42e6b03710326</div>

Displaying 10 items

root@localhost:/

Pictures

System Information - OpenStack Da...

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Version: 13.0.1