



OpenStack Setup using Horizon - 1

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- ❖ **OpenStack Setup Using Horizon # 1**
- ❖ **OpenStack Setup Using Horizon # 2**
- ❖ **OpenStack Setup Using Horizon # 3**

❖ VM Image (admin)

- Register a VM OS image file to Glance
- System → Images → Create Image
- Image Source
 - Image file path (local) or URL
 - http://download.cirros-cloud.net/0.3.4/cirros-0.3.4-x86_64-disk.img
- Format
 - QCOW2: more suitable than other types if the hypervisor is QEMU

Images									
		Image Name =		Filter	+ Create Image		Delete Images		
<input type="checkbox"/>	Project	Image Name	Type	Status	Public	Protected	Format	Size	Actions
<input type="checkbox"/>	admin	cirros	Image	<div></div> Saving	Yes	No	QCOW2	12.7 MB	Edit Image

<Images Panel>

Create An Image

Name *

cirros

Description

Image Source

Image Location

Image Location ?

http://download.cirros-cloud.net/0.3.4/cirros-0.3.4-x86_64-disk.img

Format *

QCOW2 - QEMU Emulator

Architecture

Minimum Disk (GB) ?

Minimum RAM (MB) ?

☒ Copy Data ?

☒ Public

☐ Protected

Description:

Specify an image to upload to the Image Service.

Currently only images available via an HTTP/HTTPS URL are supported. The image location must be accessible to the Image Service.

Please note: The Image Location field MUST be a valid and direct URL to the image binary. URLs that redirect or serve error pages will result in unusable images.

Cancel

Create Image

<VM Image Setup>

❖ VM Flavor (admin)

- Flavor: a profile that defines the resource specification for a VM
- System → Flavors → Create Flavor
- Assign minimum amount of resource to spawn a VM
 - vCPU: 1
 - RAM: 256 MB
 - Root Disk: 1 GB

Create Flavor

Flavor Information * Flavor Access

Name *
flavor1

ID ?
auto

VCPU's *
1

RAM (MB) *
256

Root Disk (GB) *
1

Ephemeral Disk (GB)
0

Swap Disk (MB)
0

RX/TX Factor
1

Flavors define the sizes for RAM, disk, number of cores, and other resources and can be selected when users deploy instances.

Cancel Create Flavor

Flavors

Filter + Create Flavor Delete Flavors

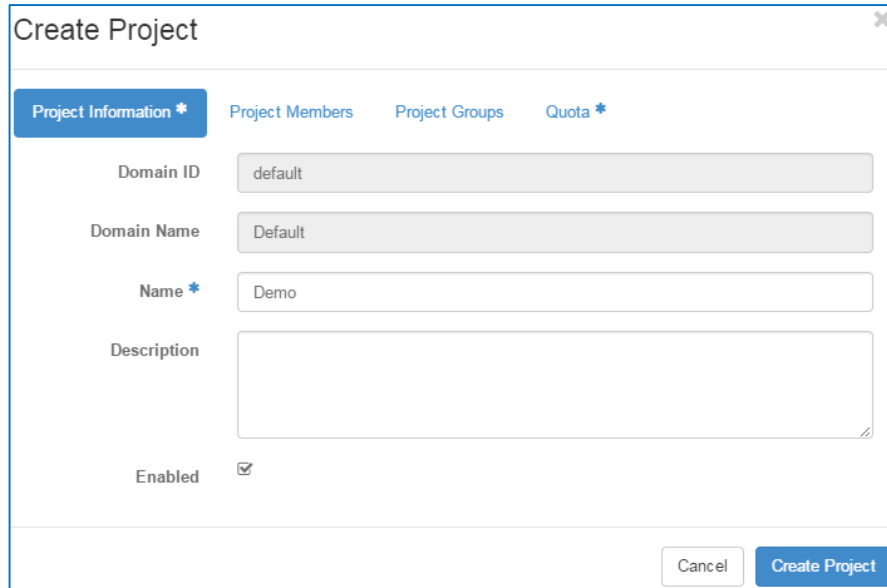
<input type="checkbox"/>	Flavor Name	VCPU's	RAM	Root Disk	Ephemeral Disk	Swap Disk	RX/TX factor	ID	Public	Metadata	Actions
<input type="checkbox"/>	flavor1	1	256MB	1GB	0GB	0MB	1.0	4c2ece21-86b0-4ca7-b6aa-9d00d2d5432e	Yes	No	Edit Flavor
<input type="checkbox"/>	m1.large	4	8GB	80GB	0GB	0MB	1.0	4	Yes	No	Edit Flavor

<Flavors Panel>

<Flavor Setup>

❖ Project (admin)

- A project provides an isolated OpenStack name space to a guest user
 - Stands for “tenant”
- Identity → Projects → Create Project
- Name: Demo
- Project Members
 - Add any users to this project as members
 - Use the existing “admin” user in this tutorial



Create Project

Project Information * Project Members Project Groups Quota *

Domain ID default

Domain Name Default

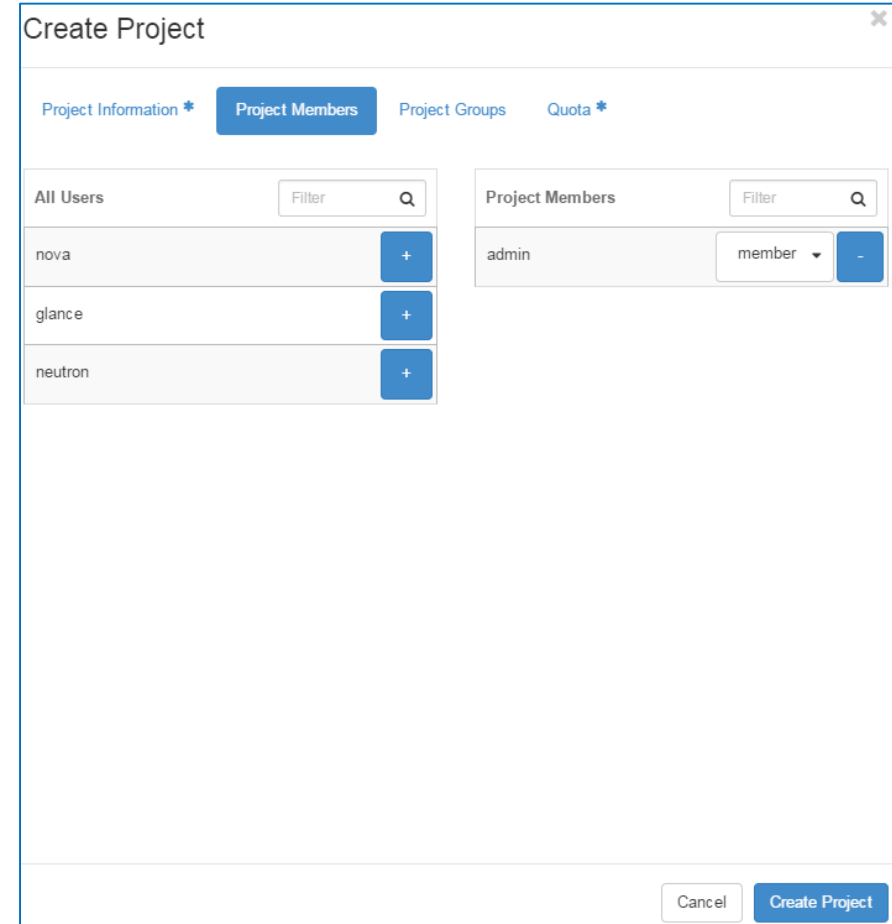
Name * Demo

Description

Enabled ☒

Cancel Create Project

<Project Setup 1>



Create Project

Project Information * Project Members Project Groups Quota *

All Users Filter

nova	+
glance	+
neutron	+

Project Members Filter

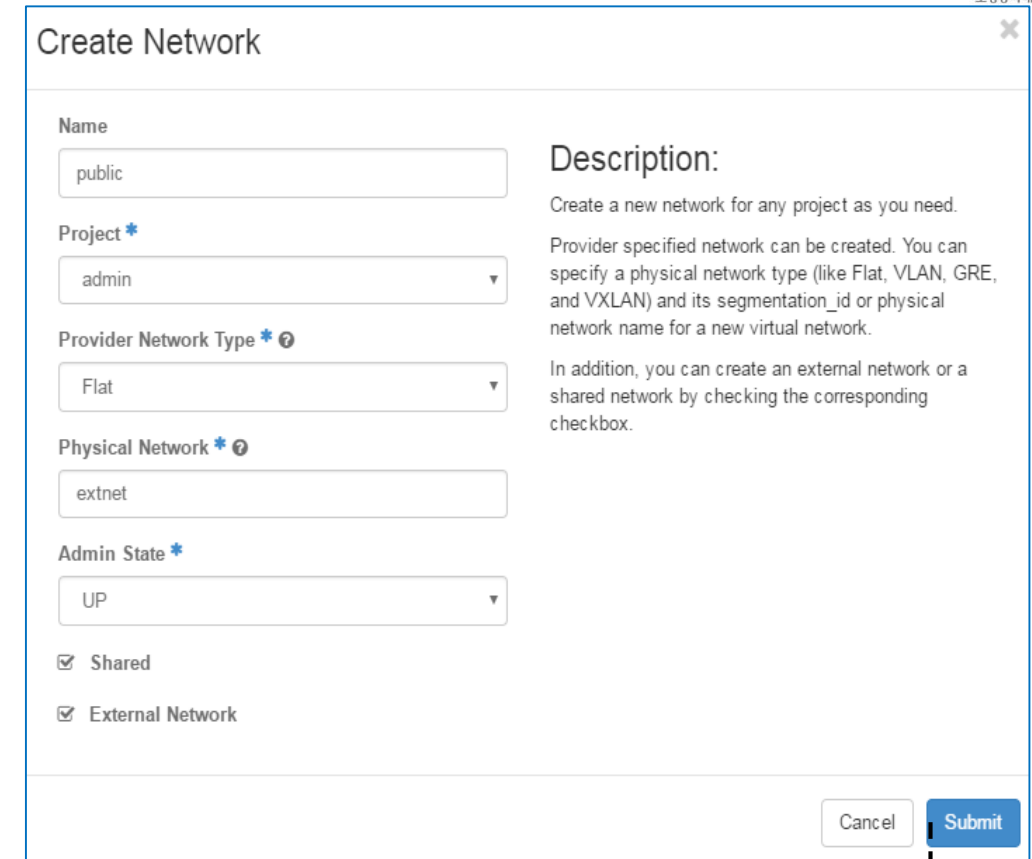
admin	member	-
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Cancel Create Project

<Project Setup 2>

❖ Provider Network (admin)

- An infrastructure or underlay network deployed by an OpenStack service provider
 - VirtualBox NAT network (192.168.11.0/24)
- System → Networks → Create Network
- Project
 - This network belongs to admin (provider)
- Provider Network Type
 - Flat: no hierarchy. all the nodes reside on the same network (192.168.11.0/24)
- Physical Network
 - “extnet”: the name for this network defined in the given Packstack answer file
- Shared
 - Shared by all tenants
- External Network
 - Connected to external network



Create Network

Name: public

Project: admin

Provider Network Type: Flat

Physical Network: extnet

Admin State: UP

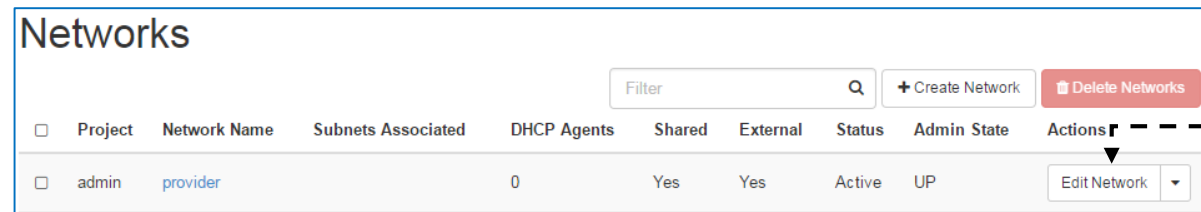
☒ Shared

☒ External Network

Description: Create a new network for any project as you need. Provider specified network can be created. You can specify a physical network type (like Flat, VLAN, GRE, and VXLAN) and its segmentation_id or physical network name for a new virtual network. In addition, you can create an external network or a shared network by checking the corresponding checkbox.

Cancel Submit

<Network Setup>



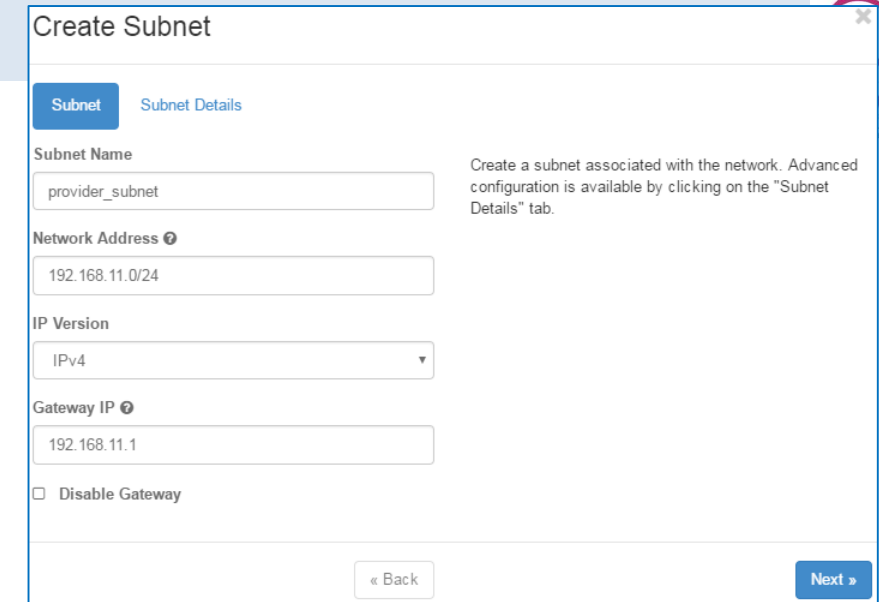
	Project	Network Name	Subnets Associated	DHCP Agents	Shared	External	Status	Admin State	Actions
<input type="checkbox"/>	admin	provider		0	Yes	Yes	Active	UP	Edit Network

<Networks Panel>

OpenStack Setup using Horizon

❖ Floating IP Pool (admin)

- A subset of the provider network's IP address space
- System → Networks → “provider” → Create Subnet
- Network Address
 - CIDR of the provider network (192.168.11.0/24)
- Gateway IP
 - G/W IP of the provider network (192.168.11.1)
- Subnet Details
 - Uncheck “Enable DHCP”
 - Allocation Pools: define floating IP range. [start,end] on each line
 - Domain Name Servers: DNS IP of the provider network



Create Subnet

Subnet Subnet Details

Subnet Name
provider_subnet

Network Address ⓘ
192.168.11.0/24

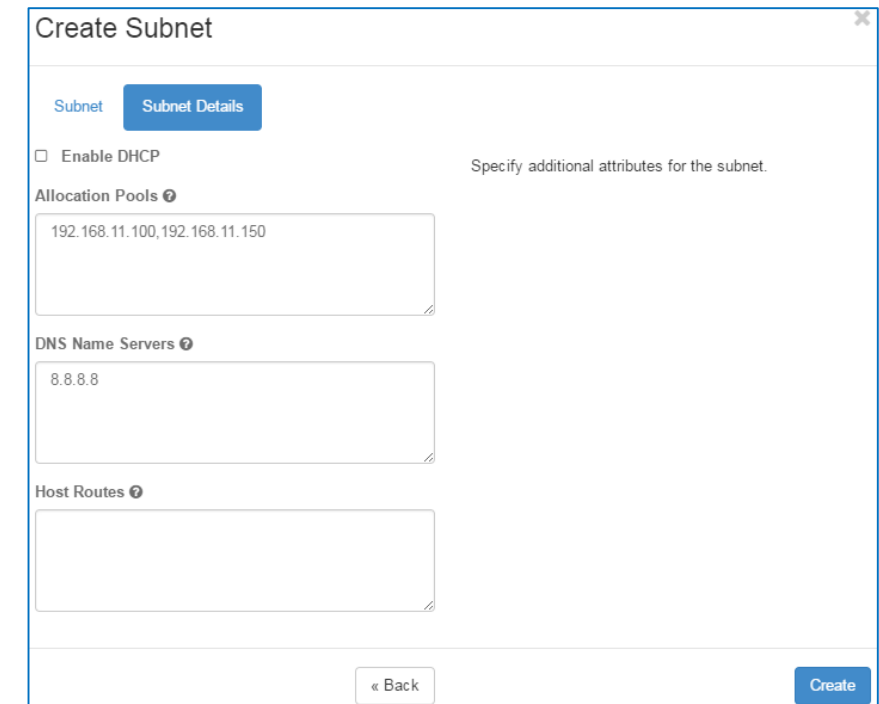
IP Version
IPv4

Gateway IP ⓘ
192.168.11.1

☐ Disable Gateway

« Back Next »

Create a subnet associated with the network. Advanced configuration is available by clicking on the "Subnet Details" tab.



Create Subnet

Subnet Subnet Details

☐ Enable DHCP

Allocation Pools ⓘ
192.168.11.100,192.168.11.150

DNS Name Servers ⓘ
8.8.8.8

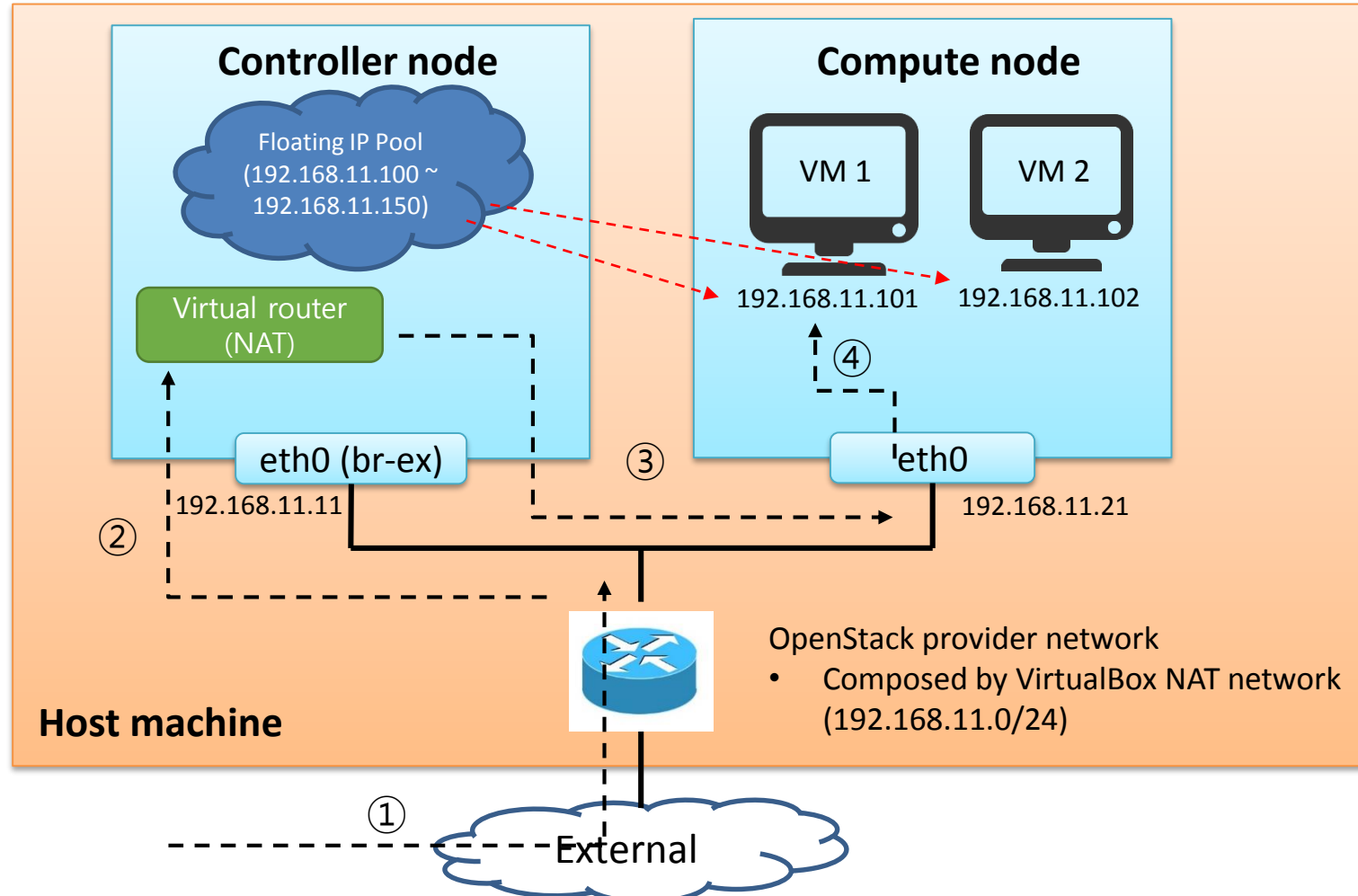
Host Routes ⓘ

« Back Create


Specify additional attributes for the subnet.

❖ Floating IP

- Connectivity: External --- OpenStack Provider network --- Virtual router (NAT) --- VM
- L3 agent NAT table: mapping between a floating IP and tenant (private) IP



영역 00:00:00 오디오 플레이어



Log in

User Name

Password

Connect