OpenStack Setup using Horizon - 1

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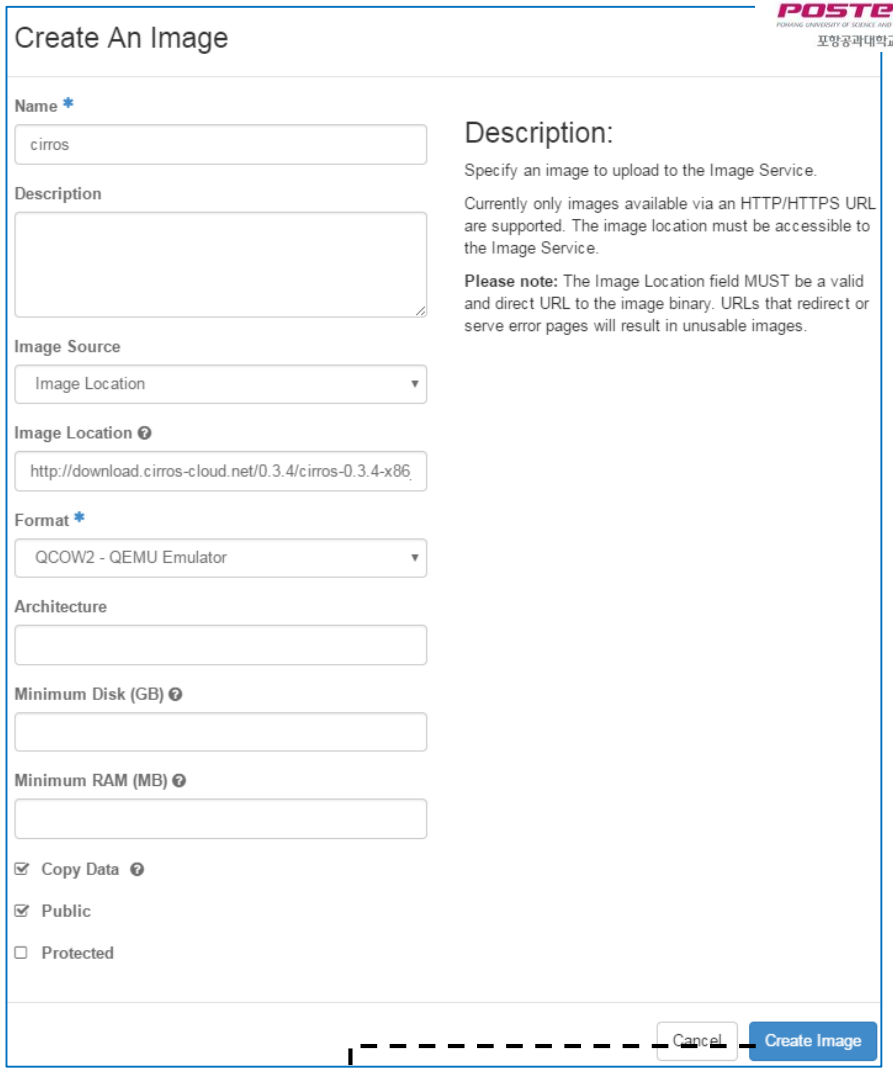
Outline

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

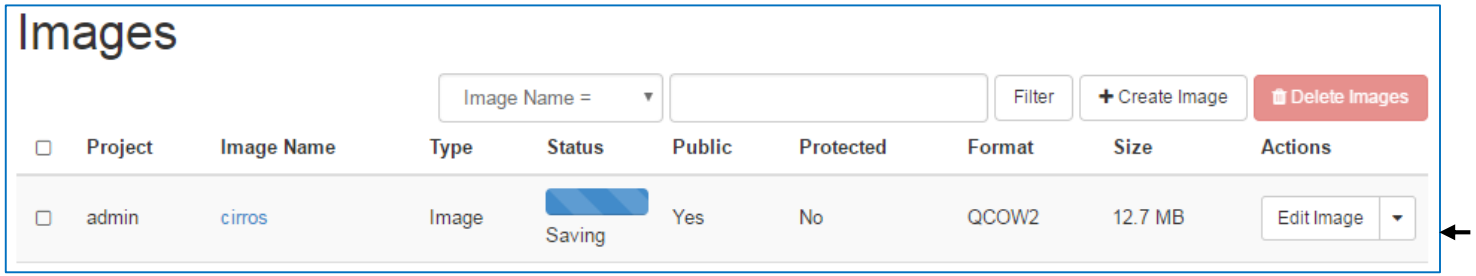
OpenStack Setup using Horizon

❖ 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



<VM Image Setup>

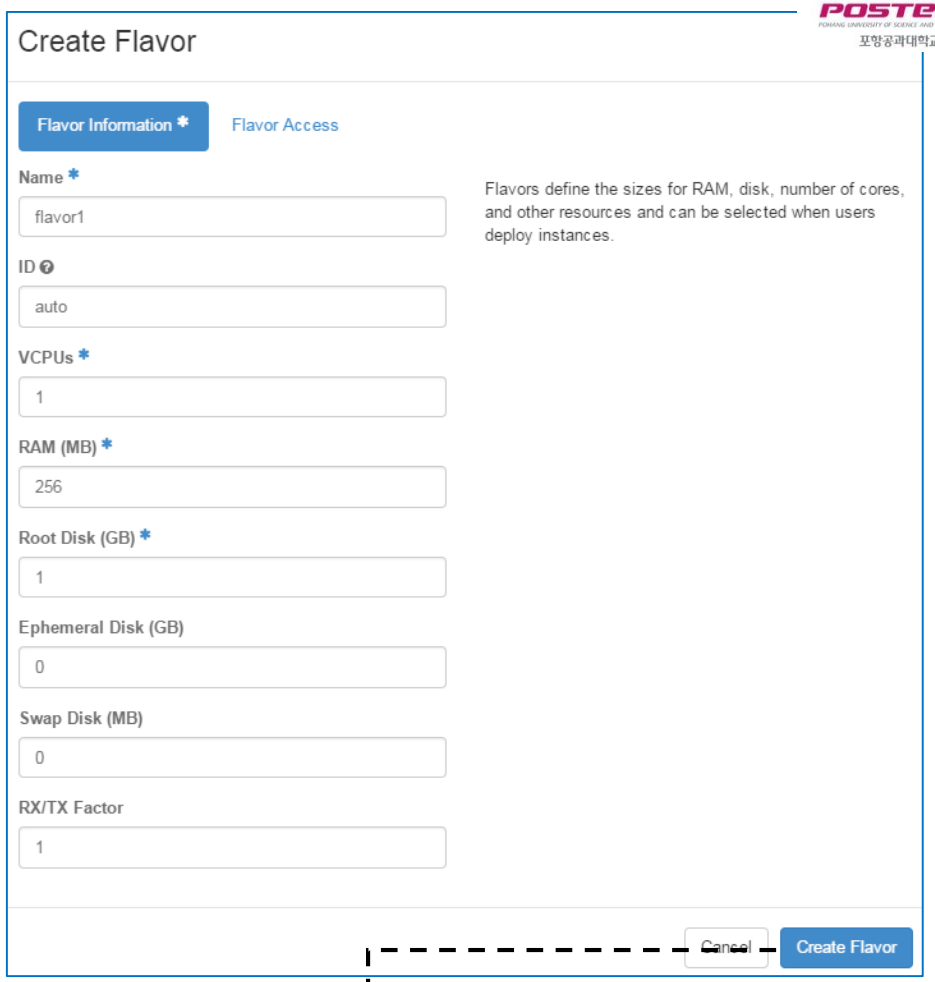


<Images Panel>

OpenStack Setup using Horizon

❖ 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 with a tiny cirros image
  - vCPU: 1
  - RAM: 256 MB
  - Root Disk: 1 GB



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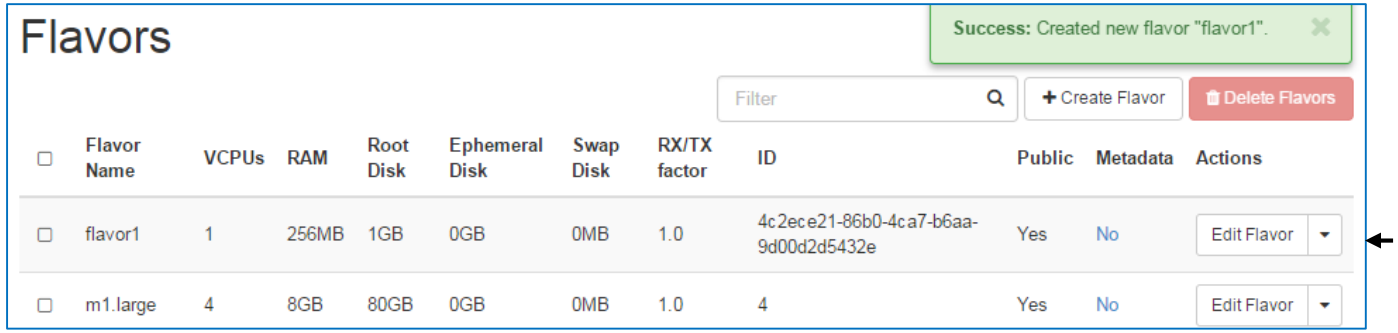
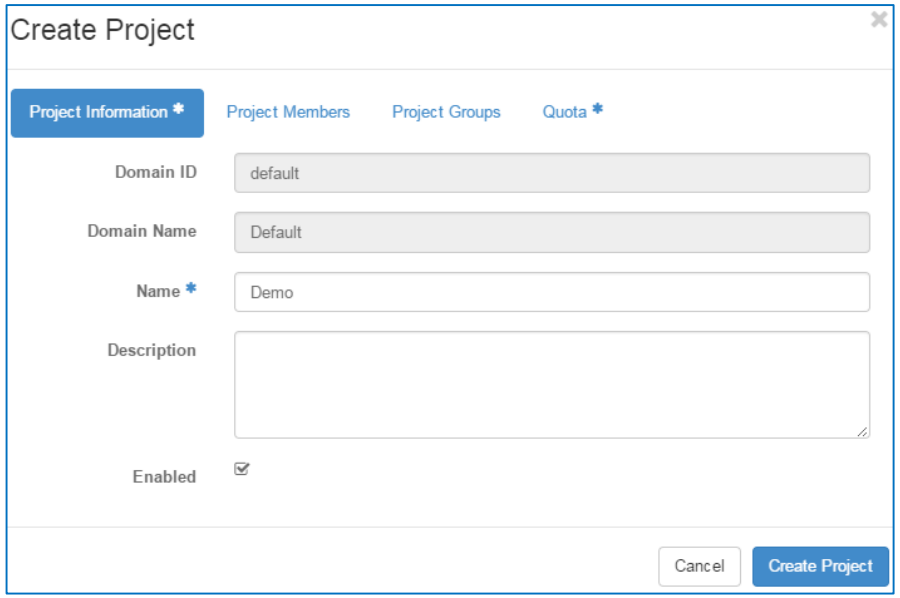


<Flavors Panel>

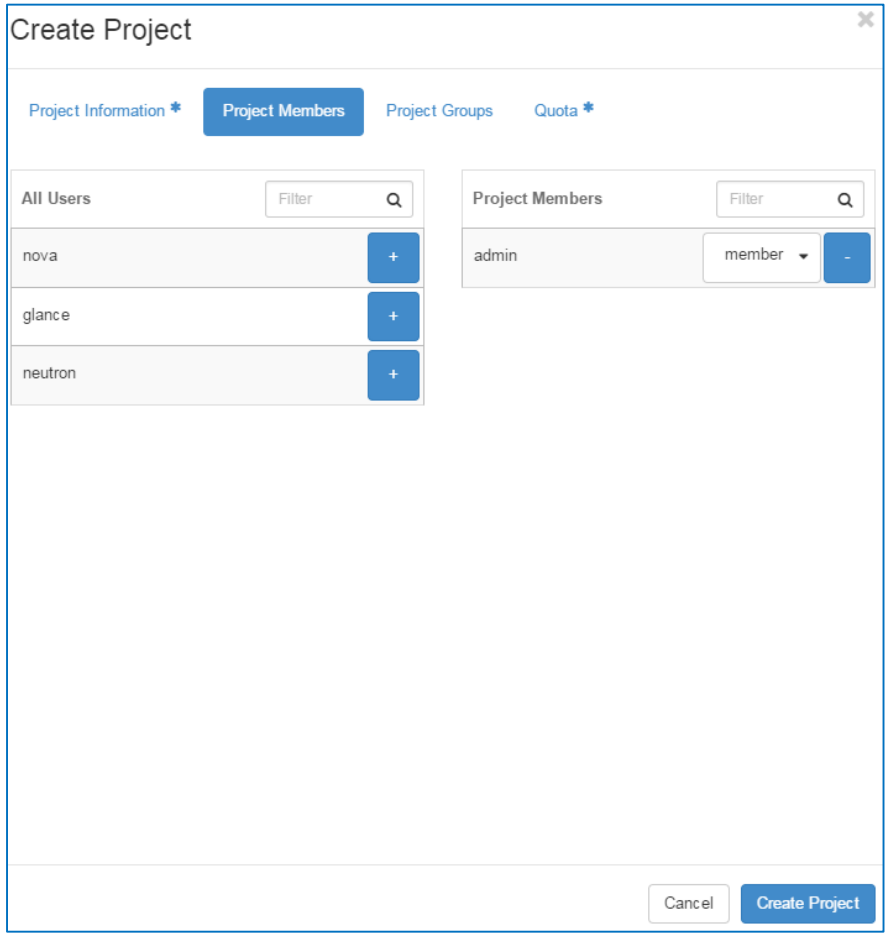
OpenStack Setup using Horizon

❖ 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 exsting “admin” user in this tutorial



<Project Setup 1>

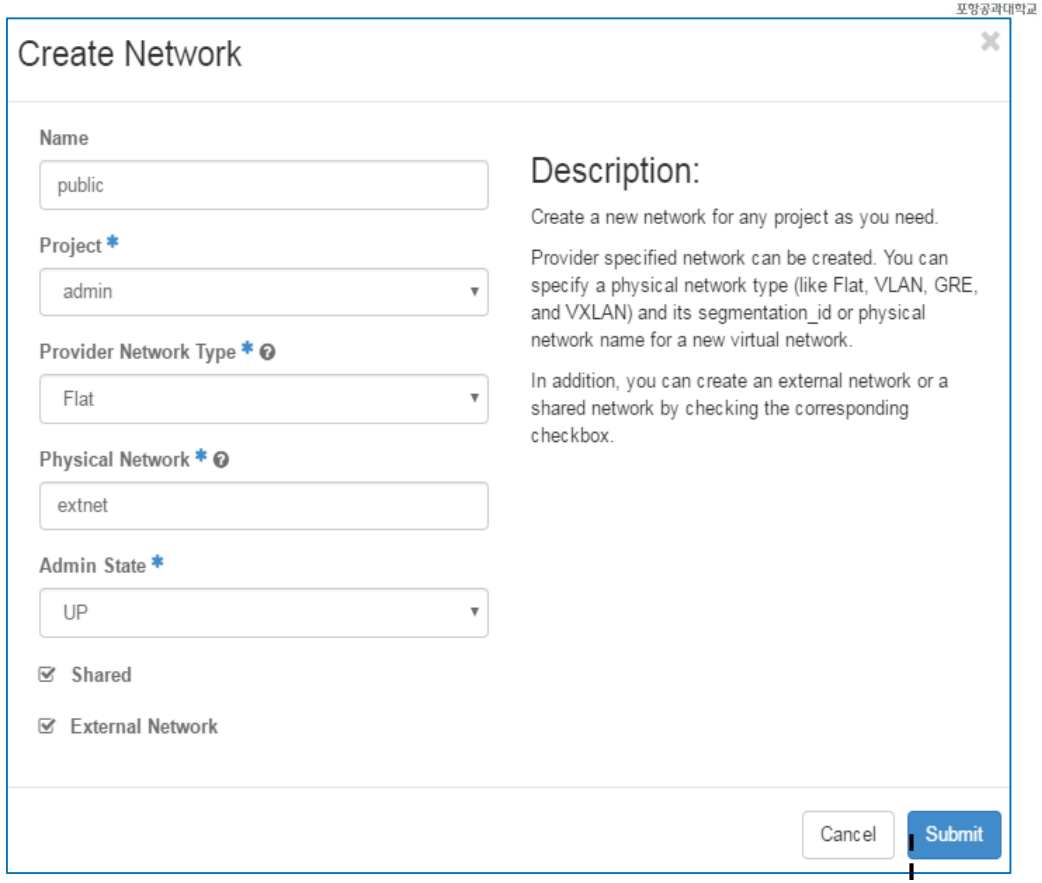


<Project Setup 2>

OpenStack Setup using Horizon

❖ 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



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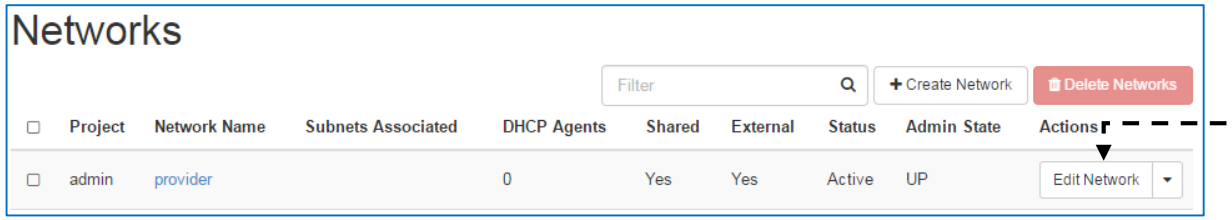
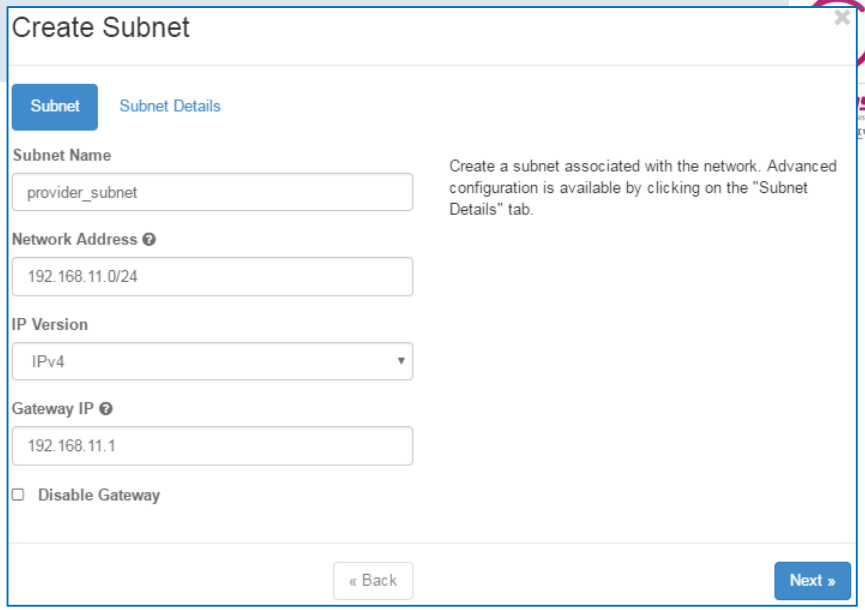


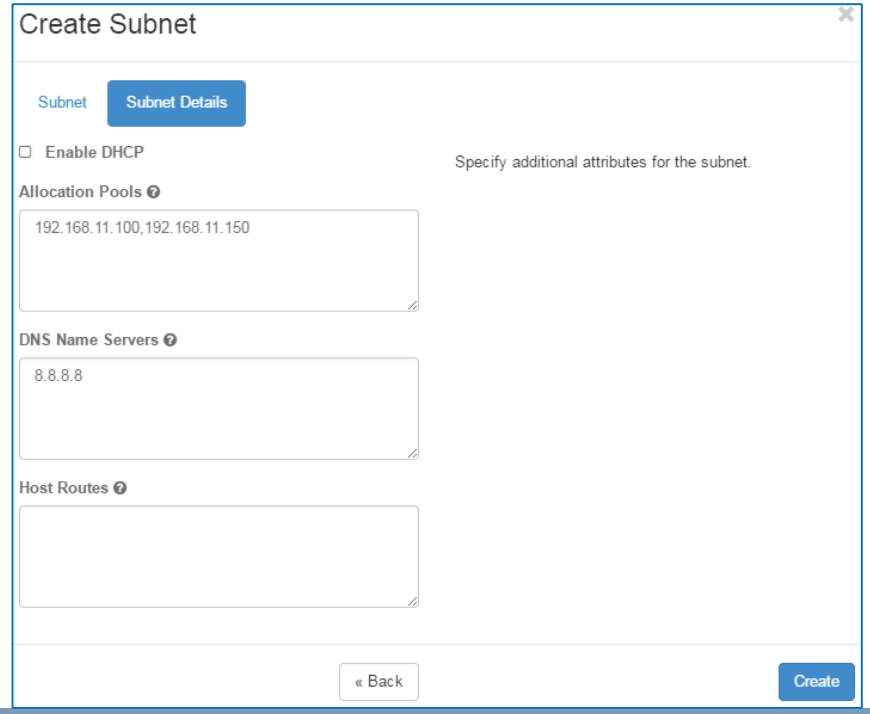
<Networks Panel>

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

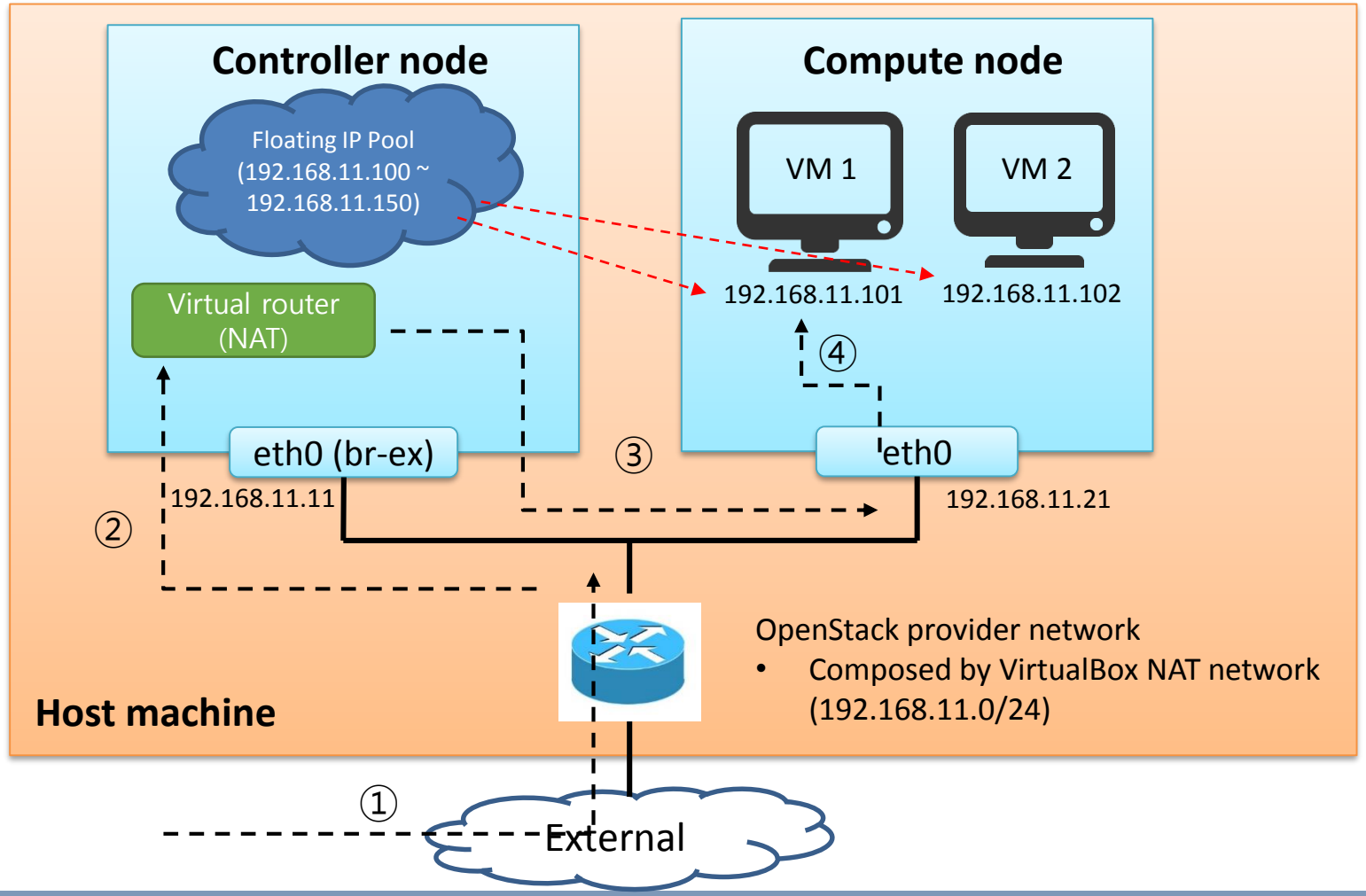




OpenStack Setup using Horizon

❖ Floating IP

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



Demo

00:00:00
오디오
포인터

openstack
DASHBOARD
Log in
User Name
Password
Connect