

OpenStack (Kilo) Installation using vasabilab's install scripts

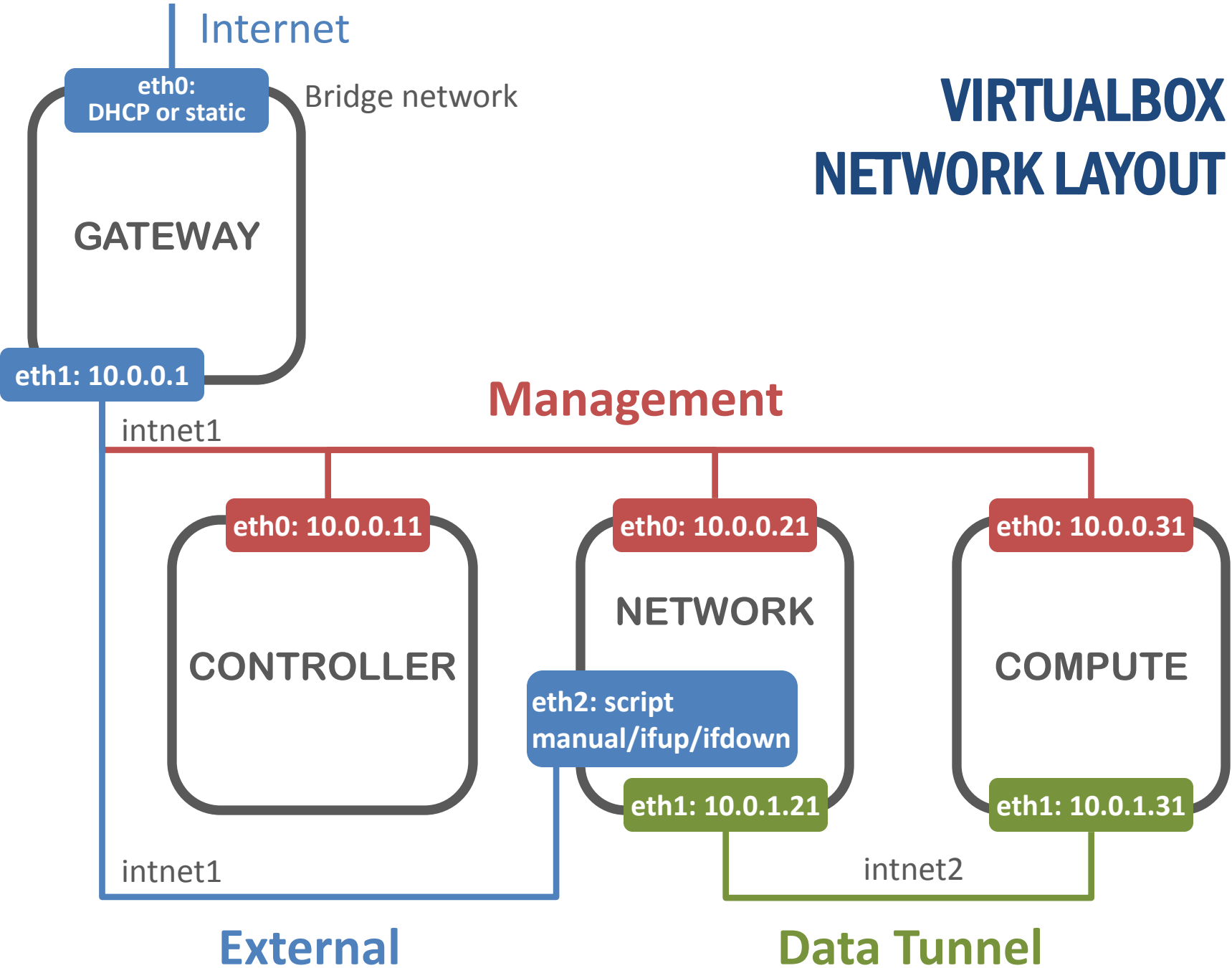
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VirtualBox Setting

Host	vcpu	RAM	Disk	Network
Controller	2	1-2 GB	8-16 GB	1) Internal network "intnet1"
Network	1	1 GB	5 GB	1) Internal network "intnet1" 2) Internal network "intnet2" 3) Internal network "intnet1"
Compute	2-4	2 GB	16 GB	1) Internal network "intnet1" 2) Internal network "intnet2"
Gateway	1	1 GB	5 GB	1) Bridge network 2) Internal network "intnet1"

VIRTUALBOX NETWORK LAYOUT



Internet

gateway

```

DOMAINNAME = openstackcloud.com
DNS_IP = 8.8.8.8
VPN_IP_RANGE = 10.0.0.225-254
LOCAL_REPO = 203.131.208.24
LOCAL_SECURITY_REPO =
  203.131.208.24
LOCAL_CLOUD_REPO = 203.131.208.24

```

```

MANAGEMENT_CIDR = 10.0.0.0/24
MANAGEMENT_NETWORK = 10.0.0.0
MANAGEMENT_NETWORK_NETMASK
  = 255.255.255.0
BROADCAST_ADDRESS = 10.0.0.255
GATEWAY_IP = 10.0.0.1

```

```

CONTROLLER_IP = 10.0.0.11
NETWORK_IP = 10.0.0.21
COMPUTE_IP = 10.0.0.31

```

Management Network

network

compute

controller

```

START_FLOATING_IP = 10.0.0.100
END_FLOATING_IP = 10.0.0.200

```

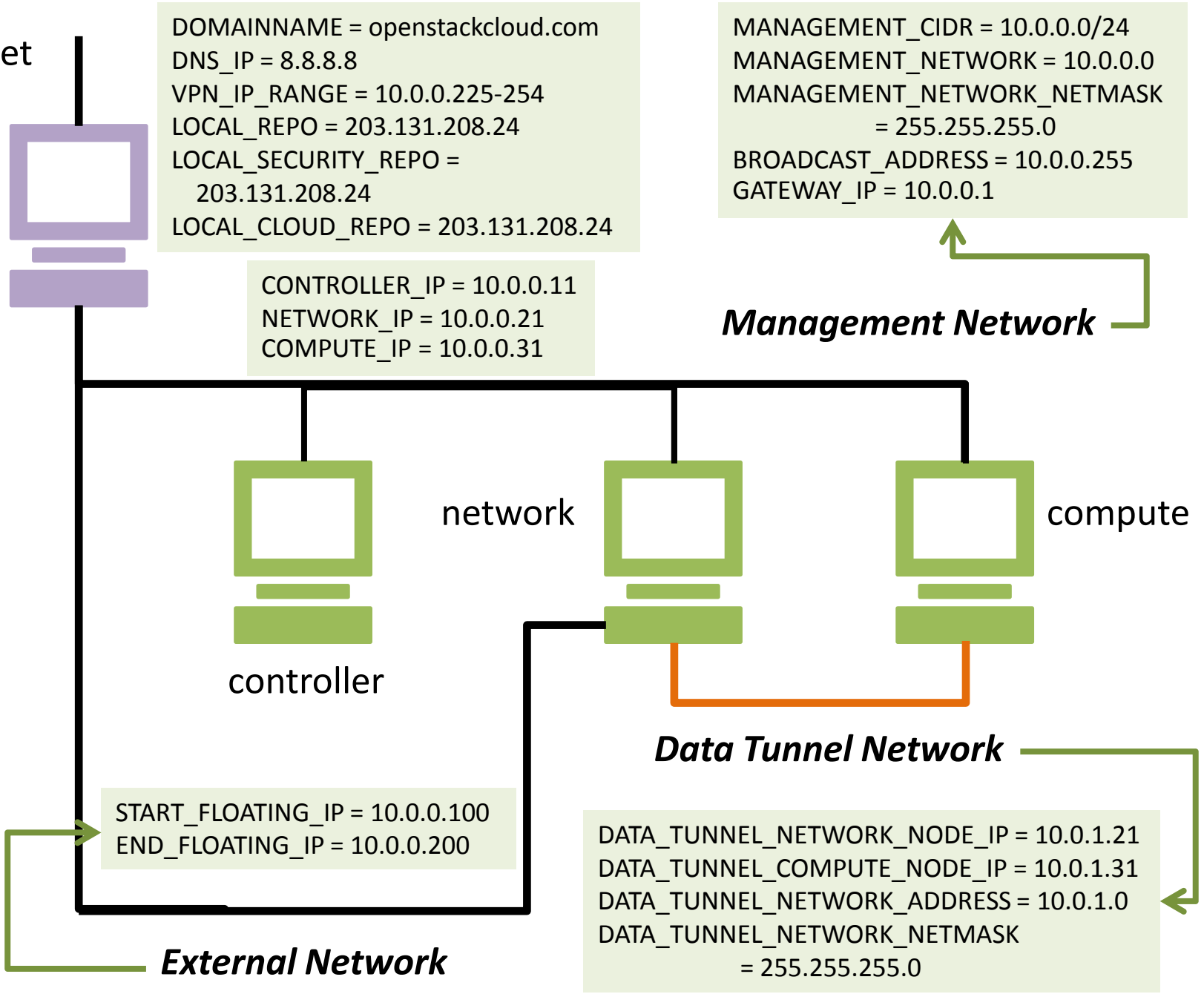
Data Tunnel Network

```

DATA_TUNNEL_NETWORK_NODE_IP = 10.0.1.21
DATA_TUNNEL_COMPUTE_NODE_IP = 10.0.1.31
DATA_TUNNEL_NETWORK_ADDRESS = 10.0.1.0
DATA_TUNNEL_NETWORK_NETMASK
  = 255.255.255.0

```

External Network



After the Installation

CONTROLLER

MySQL Database
RabbitMQ
Keystone
Glance
Nova Management
Neutron Server
ML2 Plug-In

NETWORK

ML2 Plug-In
Layer 2 Agent (OVS)
Layer 3 Agent
DHCP Agent

COMPUTE

Nova Hypervisor
KVM or QEMU
ML2 Plug-In
Layer 2 Agent (OVS)

Account on Every Host

- User “*openstack*”
- Password “*vasabilab*”
- If you want to change the networking parameters, you can do so by changing values in *./install-paramrc.sh* file

Installation Step 1

- รั้น VM ทั้ง 4 VM (Controller, Network, Compute, Gateway)
- Log in เข้าเครื่อง Gateway
 - User: openstack
 - Password: vasabilab
- Download script

```
$ wget http://203.131.208.24/installer/OpenStackInstaller-kilo.tar
```

Installation Step 2

- รัน config

```
$ tar xvf OpenStackInstaller-kilo.tar  
$ cd OpenStackInstaller-kilo  
$ ./exe-config-installer.sh
```


Installation Step 3

- รัน script

```
$ cd OPSInstaller/gateway  
  
$ ./OS-installer-00-set-remote-access.sh  
    ถาม password ให้ใส่ vasabilab  
  
$ ./OS-installer-01-node-setups.sh  
$ ./OS-installer-02-mysql.sh  
$ ./OS-installer-03-rabbitmq.sh  
$ ./OS-installer-04-keystone.sh  
$ ./OS-installer-05-glance.sh  
$ ./OS-installer-06-nova.sh  
$ ./OS-installer-07-neutron.sh  
$ ./OS-installer-08-initial-user-network.sh  
$ ./OS-installer-09-horizon.sh
```

Dashboard (Horizon)

- Connect VPN
 - Address: gateway's external network
 - Username: openstack
 - Password: vasabilab
- เปิด browser เข้าไปที่ <http://10.0.0.11/horizon>
 - Username: demo Password: demopassword
 - Username: admin Password: adminpassword

Dashboard Usage

- Security group
- Network
 - Create network
 - Create router
 - Add interface
- Launch instance