

## 저는...

- □ Global IT 기업의 국내 지사에 기술영업 담당
- □ Openstack과 전혀 상관없는 업무 지원
- □ 순수 스터디 자원에서 조인

### About the Openstack Installation

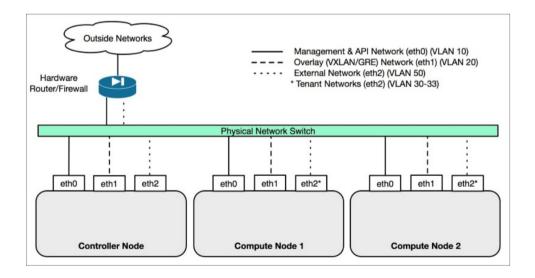
Version: Liberty, OS: Ubuntu 14.04

- VirtualBox 기반, 교재와 동일 환경 구성(1 Controller + 2 Compute nodes)
- 설치는 2nd Edition의 Appendix B.Virtualizing the Environment를 기준으로 설정
- 작업 시 사용한 명령어는 PackPub.com에서 다운로드 받아 참고함.
- NIC는 4개 구성 (eth0 vboxnet1, eth1 internal:overlay, eth2 vboxnet2, eth3 NAT)

Network configurations for VirtualBox Environment

전체 구성

• 네트워크 기본 구성은 다음 그림을 참고하여 구성



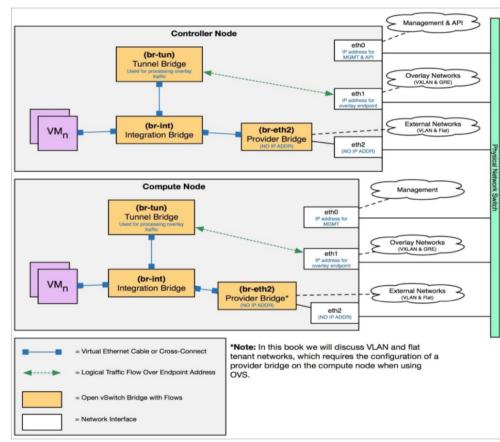


Figure 1.4

# Network configurations for VirtualBox Environment IP Address 정보

- IP 주소는 다음 테이블을 참고하여 구성함.
- Controller: 10.254.254.100/24, Compute nodes: 10.254.254.101~102/24

Network Type	Name	Network	Adapter Address	DHCP
NAT	<default></default>	<default></default>	<default></default>	Yes
Host-only	vboxnet0	10.254.254.0/24	10.254.254.1	No
Host-only	vboxnet1	10.50.0.0/24	10.50.0.1	No
Internal	overlay	172.18.0.0/24	n/a	No

### Network configurations for VirtualBox Environment 개별 NIC 구성 – eth0/eth1

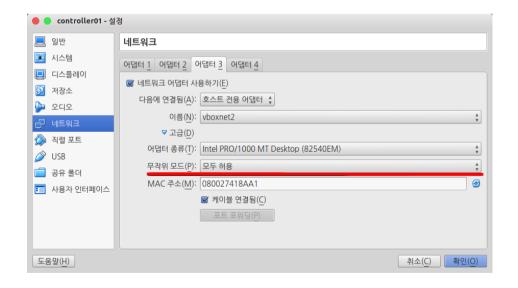
• eth0(호스트 전용)의 네트워크 이름은 vboxnet1, eth1(internal)은 overla로 지정하고, 무작위 모드는 "거부" 설정





## Network configurations for VirtualBox Environment 개별 NIC 구성 – eth2/eth3

• eth2(호스트 전용)의 네트워크 이름은 vboxnet2, eth2는 NAT 지정하고, 무작위 모드는 eth2만 "모두 허용"으로 설정



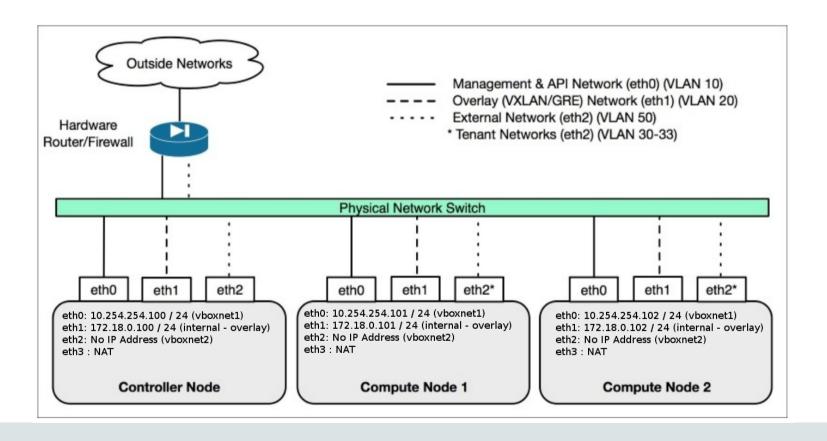


#### Network configurations for VirtualBox Environment Guest VM의 Network 구성 이슈

```
# and how to activate them. For more information, see interfaces(5).
# The loopback network interface
auto lo
iface lo inet loopback
auto eth0
iface eth0 inet static
  address 10.254.254.102
  netmask 255.255.255.0
# gateway 10.254.254.1
  dns-nameserver 8.8.8.8
auto eth1
iface eth1 inet static
  address 172.18.0.102
  netmask 255.255.255.0
auto eth2
iface eth2 inet manual
auto eth3
iface eth3 inet dhcp
jsp@compute02:~$
```

• eth0의 gateway, dnsnameserver → NAT인터페이스쪽의 Gateway와 중복이 발생하여 Comment 처리 후 정상 동작

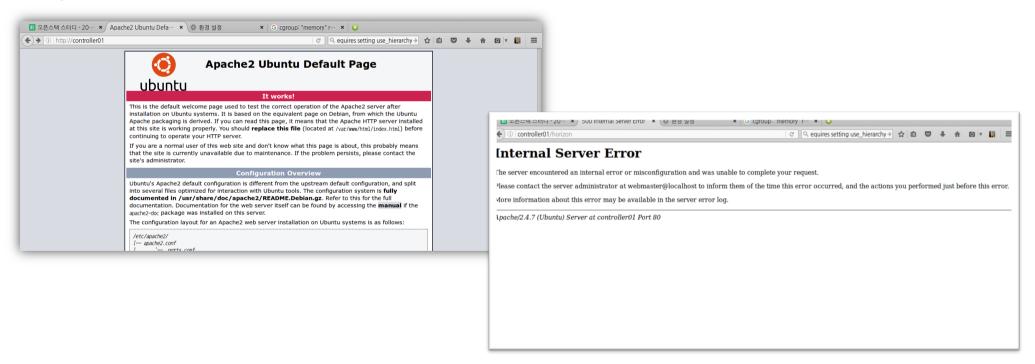
# Network configurations for VirtualBox Environment 최종 네트워크 구성 정보



# 설치시오류

#### Horizon UI 접속 시 접속 오류 발생

• Apache 서버 기본 화면에는 접속이 되지만, Horizon 접속시 오류 발생



# 설치시오류

#### Horizon UI 접속 시 접속 오류 발생

- 에러 로그 확인 시 NameError: name 'controller1' is not defined 확인
- 환경 구성 파일에서 OPENSTACK\_HOST부분 "controller"로 수정

```
[Thu Apr 14 18:31:06.693744 2016] [:error] [pid 3930:tid 139828882614016] [remote 10.254.254.1:32891] Traceback (most recent call last):
[Thu Apr 14 18:31:06.693763 2016] [:error] [pid 3930:tid 139828882614016] [remote 10.254.254.1:32891] File "/usr/share/openstack-dashboard/openst
ack_dashboard/wsgi/django.wsgi", line 16, in <module>
[Thu Apr 14 18:31:06.693811 2016] [:error] [pid 3930:tid 139828882614016] [remote 10.254.254.1:32891]
                                                                                                            application = get_wsgi_application()
Thu Apr 14 18:31:06.693835 2016] [:error] [pld 3930:tid 139828882614016] [remote 10.254.254.1:32891]
                                                                                                          File "/usr/lib/python2.7/dist-packages/djan
go/core/wsgi.py", line 14, in get_wsgi_application
 Thu Apr 14 18:31:06.693874 2016] [:error] [pid 3930:tid 139828882614016] [remote 10.254.254.1:32891]
Thu Apr 14 18:31:06.693896 2016] [:error] [pid 3930:tid 139828882614016] [remote 10.254.254.1:32891] File "/usr/lib/python2.7/dist-packages/djan
go/__init__.py", line 20, in setup
[Thu Apr 14 18:31:06.693935 2016] [:error] [pid 3930:tid 139828882614016] [remote 10.254.254.1:32891]
                                                                                                            configure logging(settings.LOGGING CONFIG
 settings.LOGGING)
[Thu Apr 14 18:31:06.693950 2016] [:error] [pid 3930:tid 139828882614016] [remote 10.254.254.1:32891] File "/usr/lib/python2.7/dist-packages/djan
go/conf/__init__.py", line 46, in __getattr__
[Thu Apr 14 18:31:06.694020 2016] [:error] [pid 3930:tid 139828882614016] [remote 10.254.254.1:32891]
                                                                                                            self. setup(name)
Thu Apr 14 18:31:06.694031 2016] [:error] [pld 3930:tld 139828882614016] [remote 10.254.254.1:32891]
                                                                                                          File "/usr/lib/python2.7/dist-packages/djan
go/conf/__init__.py", line 42, in _setup
[Thu Apr 14 18:31:06.694046 2016] [:error] [pid 3930:tid 139828882614016] [remote 10.254.254.1:32891]
                                                                                                            self._wrapped = Settings(settings_module)
 Thu Apr 14 18:31:06.694055 2016] [:error] [pld 3930:tid 139828882614016] [remote 10.254.254.1:32891]
                                                                                                          File "/usr/lib/python2.7/dist-packages/djan
go/conf/__init__.py", line 94, in __init__
 [Thu Apr 14 18:31:06.694069 2016] [:error] [pid 3930:tid 139828882614016] [remote 10.254.254.1:32891]
                                                                                                            mod = importlib.import module(self.SETTIN
GS MODULE)
[Thu Apr 14 18:31:06.694080 2016] [:error] [pid 3930:tid 139828882614016] [remote 10.254.254.1:32891]
                                                                                                          File "/usr/lib/python2.7/importlib/ init
 .pv". line 37. in import module
[Thu Apr 14 18:31:06.694118 2016] [:error] [pid 3930:tid 139828882614016] [remote 10.254.254.1:32891]
Thu Apr 14 18:31:06.694128 2016 | Ferror | Fpid 3930:tid 139828882614016 | Fremote 10.254.254.1:32891
                                                                                                          File "/usr/share/openstack-dashboard/openst
ack dashboard/wsgi/../../openstack dashboard/settings.py", line 261, in <module>
[Thu Apr 14 18:31:06.694198 2016] [:error] [pid 3930:tid 139828882614016] [remote 10.254.254.1:32891]
                                                                                                            from local.local settings import * # nog
[Thu Apr 14 18:31:06.694210 2016] [:error] [pid 3930:tid 139828882614016] [remote 10.254.254.1:32891]
                                                                                                          File "/usr/share/openstack-dashboard/openst
ack_dashboard/wsgi/../../openstack_dashboard/local/local_settings.py", line 153, in <module>
[Thu Apr 14 18:31:06.694327 2016] [:error] [pid 3930:tid 139828882614016] [remote 10.254.254.1:32891]
                                                                                                            OPENSTACK HOST = controller01
Thu Apr 14 18:31:06.694346 2016] [:error] [pid 3930:tid 139828882614016] [remote 10.254.254.1:32891] NameError: name 'controller01' is not defined
```

```
# Or send them to /dev/null
#EMAIL BACKEND = 'django.core.mail.backends.dummy.EmailBackend
# Configure these for your outgoing email host
#EMAIL_HOST = 'smtp.my-company.com
#EMAIL PORT = 25
#EMAIL_HOST_USER = 'djangomail'
#EMAIL_HOST_PASSWORD = 'top-secret!'
# For multiple regions uncomment this configuration, and add (endpoint, title).
#AVATIABLE REGTONS =
     ('http://cluster1.example.com:5000/v2.0', 'cluster1'),
     ('http://cluster2.example.com:5000/v2.0', 'cluster2'),
#OPENSTACK HOST = "127.0.0.1"
OPENSTACK_HOST = "controller01"
OPENSTACK_KEYSTONE_URL = "http://%s:5000/v2.0" % OPENSTACK_HOST
#OPENSTACK_KEYSTONE_DEFAULT_ROLE = "_member_'
OPENSTACK KEYSTONE DEFAULT ROLE = "user"
# Enables keystone web single-sign-on if set to True.
#WEBSSO ENABLED = False
# Determines which authentication choice to show as default.
#WEBSSO INITIAL CHOICE = "credentials"
# The list of authentication mechanisms
# which include keystone federation protocols.
# Current supported protocol IDs are 'saml2' and 'oidc'
# which represent SAML 2.0, OpenID Connect respectively.
# Do not remove the mandatory credentials mechanism.
```

# 설치 시 오류

- Keystone 관련 명령어 수행 시 에러..
  - LC\_\*\*\*\*
  - ubuntu설치 locale : en\_US.UTF-8
  - host OS local : ko\_KR.UTF-8, adminrc파일에 locale설정 추가하여 해결
- Mysql -u root -p 접속 오류
  - Localhost에서 root 접속 시 오류
  - 일반 사용자로 접속하여 mysql 수정
- Neutron 에이전트 설치 후 상태 이슈
  - :) 대신 xxx
  - agent 구성 파일 오류 (dhcp\_agent.ini에 metadata\_agent.ini내용을 추가)
- crudini는 왜 설치할까? --> 1st Edition 에서 사용, 2nd Edition은 사용하지 않음