DevStack Installation

NOVA-NETWORK

2016.05.10

설치환경

- Hyper-V on Window 10
- Ubuntu 14.04
- DevStack
 - http://docs.openstack.org/developer/devstack
 - All-In-One Single Node
- DevStack Guide Docs
 - http://docs.openstack.org/developer/devstack
 - http://docs.openstack.org/developer/devstack/#all-in-one-single-vm

DevStack Install

- http://docs.openstack.org/liberty/install-guide-ubuntu/environment-networking.html
- DevStack Nova-Network
 - http://docs.openstack.org/developer/devstack/guides/nova.html

Liberty: DevStackInstall

- http://docs.openstack.org/liberty/install-guide-ubuntu/environment-networking.html
- Dashboard 로딩실패
- oconf 설정 오류

OpenStack Install Guide - 네트워킹 변화

• Kilo Install Guide

- http://docs.openstack.org/kilo/install-guide/install/apt/content/ch_basic_environment.html#basics-networking
- Nova-Network, Neutron

• Liberty Install Guide

- http://docs.openstack.org/liberty/install-guideubuntu/common/get_started_openstack_networking.html
- Neutron
 - Nova-network 가이드 없음
 - 구성은 가능하지만, Neutron 권장

· Add the Networking service

Before you begin

network)

OpenStack Networking (neutron)

E Legacy networking (nova-

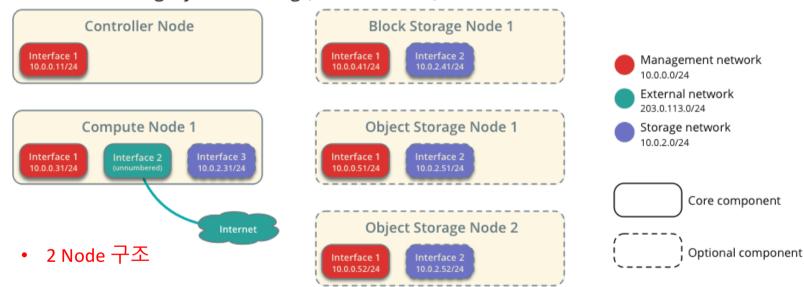
Security

Networking

- OpenStack Networking
- Networking (neutron) concepts
- Install and configure controller node
- Install and configure compute node

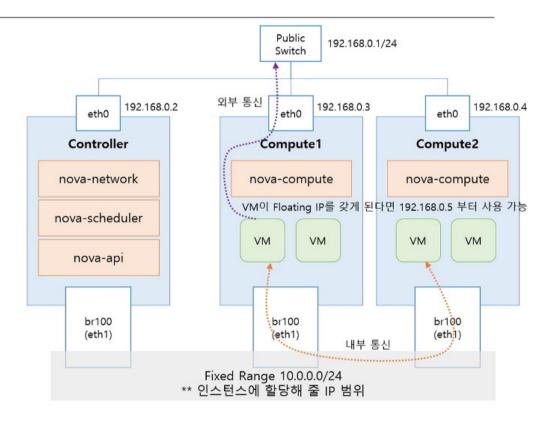
Kilo network layout: Nova-network

Minimal Architecture Example - Network Layout Legacy Networking (nova-network)



Nova-network 요약

- 네트워크 관리 서비스
- 네트워크 관리 프로세스
- 물리 스위치 사용 (L2)
 - Linux Brigde 로 물리 NIC 사용
- Floating IP 가 호스트 머신 네트워크에 속 함
 - 단일 또는 소규모 네트워크에 적합
 - 다수 있스턴스(VM) 운영시, 네트워크 서비 스 장애에 취약
- 네트워킹 자동화 어려움
 - Fixed IP
 - Floation IP
- 설정
 - /etc/nova/nova.conf

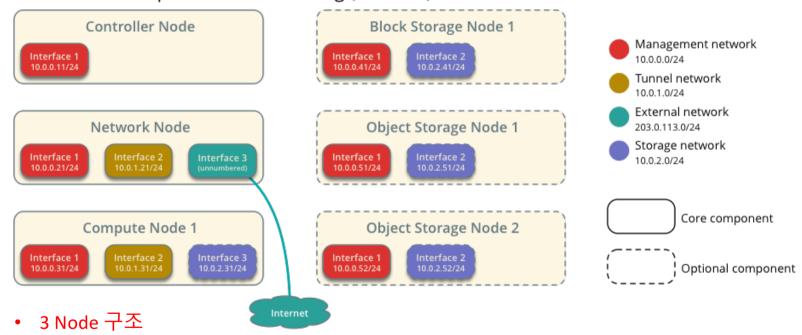


http://naleejang.tistory.com/146

Kilo network layout: Neutron

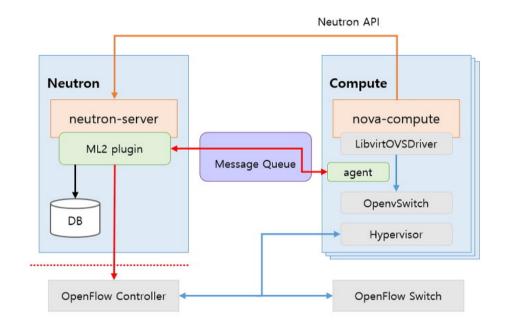
Minimal Architecture Example - Network Layout
OpenStack Networking (neutron)

• 네트워크 노드



Neutron 요약

- SDN (software define network) 개념도입
- Neutron 이 네트워크 담당
- OpenvSwitch (OVS)
- ML2 플러그인 (L2 드라이버)



Liberty network – Neutron 기반

