[kubernetes 설치]-centos7

Kubernetes 패키지는 몇 가지 서비스를 제공합니다 : kube-apiserver, kube-scheduler, kube-controller-manager, kubelet, kube-proxy. 이러한 서비스는 systemd에서 관리하며 구성은 /etc/ kubernetes에 있습니다. 첫 번째 호스트 인 centos-master는 Kubernetes 마스터가됩니다. 이 호스트는 kube-apiserver, kube-controller-manager, etcd, kube-scheduler를 실행합니다. 나머지 호스트 인 centos-minion-n은 kobelet, proxy, cadvisor 및 docker를 노드로 사용합니다

1. ip할당 & 방화벽해제 [모든노드]

**centos-master = 192.168.17.206**

**centos-minion-1 = 192.168.17.205**

**setenforce 0**

**systemctl disable iptables-services firewalld**

**systemctl stop iptables-services firewalld**

2 . repo설정 [모든노드]

[virt7-docker-common-release]

name=virt7-docker-common-release

baseurl=http://cbs.centos.org/repos/virt7-docker-common-release/x86\_64/os/

gpgcheck=0

enabled=1

3. pkg설치 [모든노드]

yum -y install kubernetes etcd flannel

4. /etc/hosts파일추가 [모든노드]

**192.168.17.206 centos-master**

**192.168.17.205 centos-minion-1**

5. /etc/kubernetes/config 파일수정 [모든노드]

# logging to stderr means we get it in the systemd journal

KUBE\_LOGTOSTDERR="--logtostderr=true"

# journal message level, 0 is debug

KUBE\_LOG\_LEVEL="--v=0"

# Should this cluster be allowed to run privileged docker containers

KUBE\_ALLOW\_PRIV="--allow-privileged=false"

# How the replication controller and scheduler find the kube-apiserver

KUBE\_MASTER="--master=http://centos-master:8080"

6. /etc/etcd/etcd.conf 파일수정 [master만]

**# [member]**

**ETCD\_NAME=default**

**ETCD\_DATA\_DIR="/var/lib/etcd/default.etcd"**

**ETCD\_LISTEN\_CLIENT\_URLS="http://0.0.0.0:2379"**

**#[cluster]**

**ETCD\_ADVERTISE\_CLIENT\_URLS=**[**http://0.0.0.0:2379**](http://0.0.0.0:2379)

7. /etc/kubernetes/apiserver 파일수정 [master만]

**# The address on the local server to listen to.**

**KUBE\_API\_ADDRESS="--address=0.0.0.0"**

**# The port on the local server to listen on.**

**KUBE\_API\_PORT="--port=8080"**

**# Port kubelets listen on**

**KUBELET\_PORT="--kubelet-port=10250"**

**# Comma separated list of nodes in the etcd cluster**

**KUBE\_ETCD\_SERVERS="--etcd-servers=http://centos-master:2379"**

**# Address range to use for services**

**KUBE\_SERVICE\_ADDRESSES="--service-cluster-ip-range=10.254.0.0/16"**

**#KUBE\_ADMISSION\_CONTROL="--admission-control=NamespaceLifecycle,NamespaceExists,LimitRanger,SecurityContextDeny,ServiceAccount,ResourceQuota"**

**# Add your own!**

**KUBE\_API\_ARGS=""**

7. etcd 기동 및 overlay네트워크 생성 [master만]

**systemctl start etcd**

**etcdctl mkdir /kube-centos/network**

**etcdctl mk /kube-centos/network/config "{ \"Network\": \"172.30.0.0/16\", \"SubnetLen\": 24, \"Backend\": { \"Type\": \"vxlan\" } }"**

8. 데몬 기동 [master만]

**for SERVICES in etcd kube-apiserver kube-controller-manager kube-scheduler flanneld; do**

**systemctl restart $SERVICES**

**systemctl enable $SERVICES**

**systemctl status $SERVICES**

**done**

9. /etc/kubernetes/kubelet 설정[minion-1만]

**# The address for the info server to serve on**

**KUBELET\_ADDRESS="--address=0.0.0.0"**

**# The port for the info server to serve on**

**KUBELET\_PORT="--port=10250"**

**# You may leave this blank to use the actual hostname**

**# Check the node number!**

**KUBELET\_HOSTNAME="--hostname-override=centos-minion-n"**

**# Location of the api-server**

**KUBELET\_API\_SERVER="--api-servers=http://centos-master:8080"**

**# Add your own!**

**KUBELET\_ARGS=""**

10. etc/sysconfig/flanneld 설정[minion-1만]

**# Flanneld configuration options**

**# etcd url location. Point this to the server where etcd runs**

**FLANNEL\_ETCD\_ENDPOINTS="http://centos-master:2379"**

**# etcd config key. This is the configuration key that flannel queries**

**# For address range assignment**

**FLANNEL\_ETCD\_PREFIX="/kube-centos/network"**

**# Any additional options that you want to pass**

**#FLANNEL\_OPTIONS=""**

11. 데몬 기동 [minion-1만]

**for SERVICES in kube-proxy kubelet flanneld docker; do**

**systemctl restart $SERVICES**

**systemctl enable $SERVICES**

**systemctl status $SERVICES**

**done**

12. kubectl 설정 [master]

**kubectl config set-cluster default-cluster --server=http://centos-master:8080**

**kubectl config set-context default-context --cluster=default-cluster --user=default-admin**

**kubectl config use-context default-context**

**[root@centos-master yum.repos.d]# kubectl config view**

**apiVersion: v1**

**clusters:**

**- cluster:**

**server: http://centos-master:8080**

**name: default-cluster**

**contexts:**

**- context:**

**cluster: default-cluster**

**user: default-admin**

**name: default-context**

**current-context: default-context**

**kind: Config**

**preferences: {}**

**users: []**

**[root@centos-master yum.repos.d]# kubectl cluster-info**

**Kubernetes master is running at** [**http://centos-master:8080**](http://centos-master:8080)

12. cluster node확인 [master]

**[root@centos-master yum.repos.d]# kubectl get nodes**

**NAME STATUS AGE**

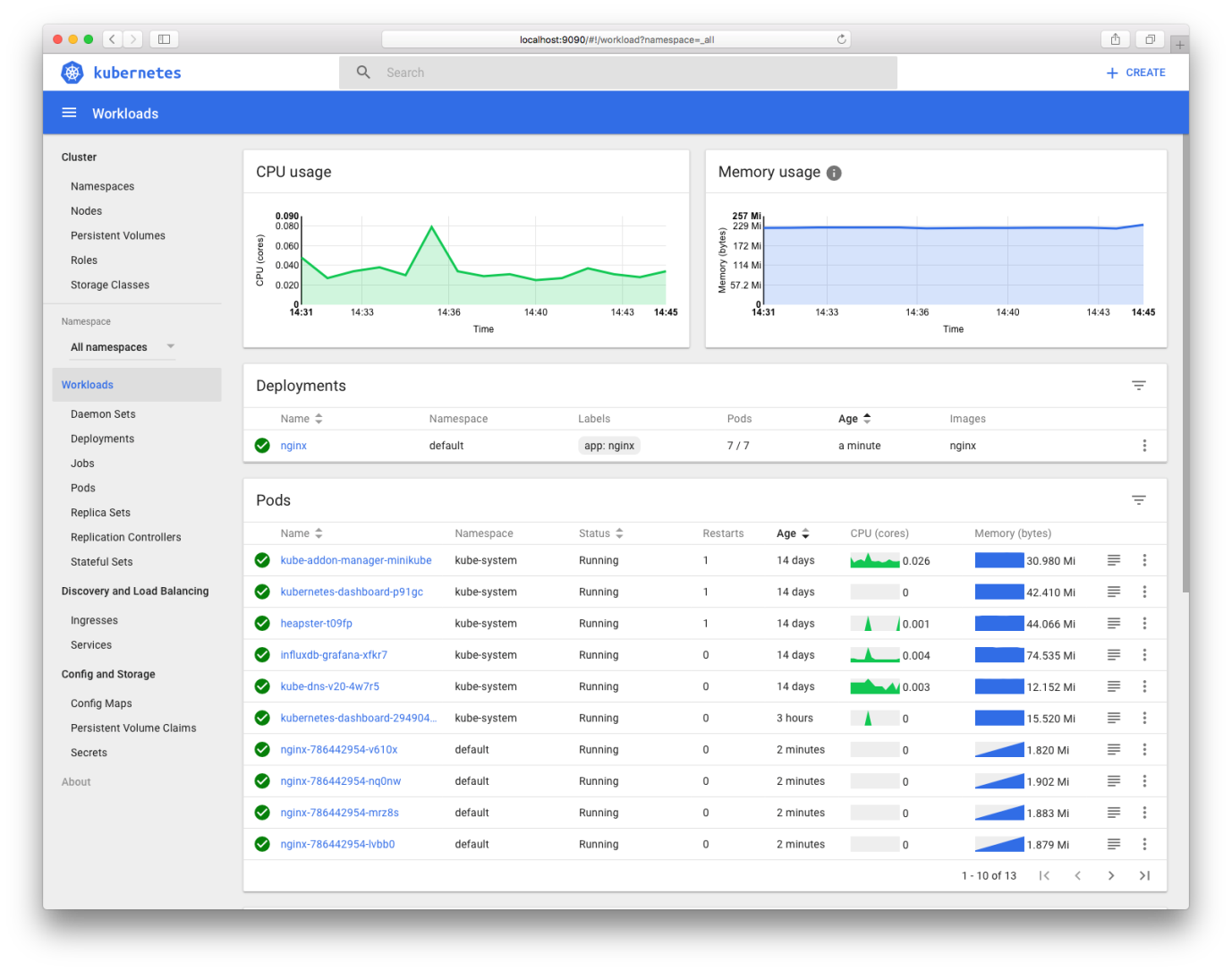
**centos-minion-1 Ready 5m**

13. dashboard 설치 [master]

**kubectl create -f** [**https://git.io/kube-dashboard-no-rbac**](https://git.io/kube-dashboard-no-rbac)

**kubectl proxy**

[**http://localhost:8001/ui**](http://localhost:8001/ui)

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