

Master ROOT user only

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- ```
sudo kubeadm init --pod-network-cidr=172.16.0.0/16 --apiserver-advertise-address=192.168.0.100
...
kubeadm join 10.0.1.2:6443 --token nnnnnnnnnnnn --discovery-token-ca-cert-hash
sha256:nnnnnnnnn <-- 잘 복사할것
...
```

## • 예시

```
...
Your Kubernetes control-plane has initialized successfully!

To start using your cluster, you need to run the following as a regular user:

mkdir -p $HOME/.kube
sudo cp -i /etc/kubernetes/admin.conf $HOME/.kube/config
sudo chown $(id -u):$(id -g) $HOME/.kube/config

You should now deploy a pod network to the cluster.
Run "kubectl apply -f [podnetwork].yaml" with one of the options listed at:
https://kubernetes.io/docs/concepts/cluster-administration/addons/

Then you can join any number of worker nodes by running the following on each as root:

kubeadm join 192.168.0.100:6443 --token 2bnj8x.t4odyls0snm1bq8b \
--discovery-token-ca-cert-hash sha256:a51bfb3121d40d300e0eb5399610511852597bfb3a5391db37d535cc
```

20231010 결과

```
kubeadm join 192.168.0.130:6443 --token zf4ub4.aa659burc1jlp42u \
--discovery-token-ca-cert-hash
sha256:dfb5baf24d4e8eec7f9e54a8ce5a376688d8a9d5222496fa0eb0e1c845a22eb4
```

## • 아래와 같이 오류가 날 때

```
hyunsu@3-kubemaster:~$ sudo kubeadm init --pod-network-cidr=172.16.0.0/16 --apiserver-
advertise-address=192.168.0.200
[init] Using Kubernetes version: v1.28.2
[preflight] Running pre-flight checks
error execution phase preflight: [preflight] Some fatal errors occurred:
[ERROR CRI]: container runtime is not running: output: time="2023-10-04T14:44:26Z" level=fatal
msg="validate service connection: CRI v1 runtime API is not implemented for endpoint \"unix:///var/
```

```
run/containerd/containerd.sock\": rpc error: code = Unimplemented desc = unknown service
runtime.v1.RuntimeService\"
, error: exit status 1
[preflight] If you know what you are doing, you can make a check non-fatal with `--ignore-preflight-
errors=...`
To see the stack trace of this error execute with --v=5 or higher
```

```
sudo rm /etc/containerd/config.toml
sudo systemctl restart containerd
sudo kubeadm init --pod-network-cidr=172.16.0.0/16 --apiserver-advertise-address=192.168.0.100
```

- api 서버가 자주 죽을 때 : <https://jh-labs.tistory.com/476> , 쿠버네티스 1.24 버전 부터는 설치시 다음과 같은 작업이 추가로 필요합니다.

```
containerd의 기본설정 정의
sudo mkdir -p /etc/containerd
sudo containerd config default | sudo tee /etc/containerd/config.toml

containerd enabled 여부 확인
systemctl is-enabled containerd

disabled일 경우
systemctl enable containerd

config 수정
sudo vi /etc/containerd/config.toml

[plugins.\"io.containerd.grpc.v1.cri\".containerd.runtimes.runc.options]
 # SystemdCgroup = false 기본 false로 되어있는 부분을 true로 변경한다.
 SystemdCgroup = true

containerd 재시작
sudo systemctl restart containerd
```

<https://no-easy-dev.tistory.com/5>

- Master 일반 유저

```
mkdir -p $HOME/.kube
sudo cp -i /etc/kubernetes/admin.conf $HOME/.kube/config
sudo chown $(id -u):$(id -g) $HOME/.kube/config
export KUBECONFIG=$HOME/.kube/config
export KUBECONFIG=$HOME/.kube/config | tee -a ~/.bashrc
```

- Master calico를 사용 일반 유저

```
kubectl apply -f https://docs.projectcalico.org/v3.1/getting-started/kubernetes/installation/hosted/rbac-kdc
kubectl apply -f https://docs.projectcalico.org/v3.1/getting-started/kubernetes/installation/hosted/kuberne
```

o

```
잘모르겠다 이부분
export kubever=$(kubectl version | base64 | tr -d '\n')
kubectl apply -f "https://cloud.weave.works/k8s/net?k8s-version=$kubever"
```

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