

## **TEKTON**

간단한 설치 가이드

#### 가상머신 설치

powershell> Enable-WindowsOptionalFeature -Online -FeatureName Microsoft-Hyper-V -All

powershell> mkdir \VMs

powershell> mkdir \VMdata

powershell> New-VM -Name master -MemoryStartupBytes 4GB -BootDevice VHD -

NewVHDPath .\VMs\master.vhdx -Path .\VMData -NewVHDSizeBytes 12GB -Generation 2 -Switch External

powershell> Add-VMDvdDrive -VMName master -Path rockylinux.iso

powershell> SET-VMProcessor –VMName master -count 2

powershell> New-VMSwitch -name InternalSwitch -SwitchType Internal

powershell> ADD-VMNetworkAdapter –VMName master –Switchname Internal

master/node]# cat <<EOF> /etc/hosts

192.168.90.250 master.example.com master

192.168.90.110 node.example.com node

#### **EOF**

master/node]# cat <<EOF> /etc/modules-load.d/k8s-modules.conf

br\_netfilter

overlay

**EOF** 

```
master/node]# modprobe br_netfilter
master/node]# modprobe overlay
master/node]# lsmod | grep -e br_netfilter -e overlay
```

```
master/node]# cat <<EOF> /etc/sysctl.d/99-k8s.conf
net.bridge.bridge-nf-call-iptables = 1
net.ipv4.ip_forward = 1
net.bridge.bridge-nf-call-ip6tables = 1
```

**EOF** 

```
master/node]# sysctl --system
master/node]# cat <<EOF> /etc/yum.repos.d/kubernetes.repo
[kubernetes]
name=Kubernetes
baseurl=https://pkgs.k8s.io/core:/stable:/v1.26/rpm/
enabled=1
gpgcheck=1
gpgkey=https://pkgs.k8s.io/core:/stable:/v1.26/rpm/repodata/repomd.xml.key
exclude=kubelet kubeadm kubectl cri-tools kubernetes-cni
EOF
```

master/node]# dnf search --disableexcludes=kubernetes kubectl
master]# dnf install kubeadm kubelet kubectl -y --disableexcludes=kubernetes
node]# dnf install kubeadm kubelet -y --disableexcludes=kubernete

#### 런타임 설치

```
master/node]# cat <<EOF> /etc/yum.repos.d/libcontainer.repo
```

[devel\_kubic\_libcontainers\_stable]

name=devel\_kubic\_libcontainers\_stable

type=rpm-md

baseurl=https://download.opensuse.org/repositories/devel:/kubic:/libcontainers:/stable/CentOS\_9\_Stream/

gpgcheck=1

gpgkey=https://download.opensuse.org/repositories/devel:/kubic:/libcontainers:/stable/CentOS\_9\_Stream/repod ata/repomd.xml.key

enabled=1

**EOF** 

#### 런타임 설치

```
master/node]# cat <<EOF> /etc/yum.repos.d/crio_stable.repo
[crio]
name=cri-o for derivatives RHEL
type=rpm-md
baseurl=https://download.opensuse.org/repositories/devel:/kubic:/libcontainers:/stable:/cri-
o:/1.24:/1.24.6/CentOS_8/
gpgcheck=1
gpgkey=https://download.opensuse.org/repositories/devel:/kubic:/libcontainers:/stable:/cri-
o:/1.24:/1.24.6/CentOS_8/repodata/repomd.xml.key
enabled=1
EOF
```

master]# **dnf repolist** 

master]# dnf search crio cri-o

master/node]# dnf install cri-o -y

master/node]# systemctl enable --now crio

master/node]# systemctl is-active crio

> active

### 쿠버네티스 초기화

```
master/node]# curl -o /etc/containers/policy.json
https://raw.githubusercontent.com/tangt64/training_memos/main/opensource/kubernetes-
101/files/policy.json
master]# kubeadm init --apiserver-advertise-address=192.168.90.250 \
--pod-network-cidr=192.168.0.0/16 \
--service-cidr=10.90.0.0/16
node]# kubeadm join 192.168.90.250:6443 --token kzu7ci.jylu1yzdcwt85c20 \
--discovery-token-ca-cert-hash \
sha256:15a5b5e9c5463ca9c359ec96c8677ddd62615fe3afcf986e4b6703e6cbcdef0b
master]# systemctl enable --now kubelet
```

### 쿠버네티스 초기화

node]# kubeadm join 192.168.90.250:6443 --token kzu7ci.jylu1yzdcwt85c20 \

--discovery-token-ca-cert-hash \

sha256:15a5b5e9c5463ca9c359ec96c8677ddd62615fe3afcf986e4b6703e6cbcdef0b

master]# export KUBECONFIG=/etc/kubernetes/admin.conf

master]# kubectl get pods -A

master]# kubectl get nodes

master]# kubeadm token create --print-join-command

> kubeadm join 192.168.90.250:6443 --token 7tot4i.ry9xoeeum6ffw6yu --discovery-token-ca-cert-hash sha256:15a5b5e9c5463ca9c359ec96c8677ddd62615fe3afcf986e4b6703e6cbcdef0b

### 네트워크

master]# kubectl create -f

https://raw.githubusercontent.com/projectcalico/calico/v3.26.1/manifests/tigera-operator.yaml

master]# wget https://raw.githubusercontent.com/tangt64/duststack-k8s-auto/master/roles/cni/cnicalico/templates/custom-resources.yaml

master]# vi custom-resources.yaml

> cidr: 192.168.0.0/16

master]# kubectl apply -f custom-resources.yaml

#### 네트워크

#### master]# kubectl get pods -A

```
> calico-apiserver calico-apiserver-7cf9cc6788-9q27x
                                                             Running 0
                                                        1/1
                                                                             9m26s
                                                       1/1
                                                             Running 0
> calico-apiserver calico-apiserver-7cf9cc6788-dcvvs
                                                                            9m26s
                 calico-kube-controllers-65bfc7f4d9-2lstq
                                                         1/1
                                                              Running 0
                                                                              11m
> calico-system
                                                       Running 0
> calico-system
                 calico-node-5mwks
                                                 1/1
                                                                       11m
                                               1/1
> calico-system
                 calico-node-qqllc
                                                     Running 0
                                                                    11m
> calico-system
                 calico-typha-5d7cdf588-q9x2z
                                                     1/1
                                                           Running 0
                                                                           11m
> calico-system
                 csi-node-driver-m8ht6
                                                  2/2
                                                        Running 0
                                                                       11m
                 csi-node-driver-zm6r6
                                                  2/2
                                                       Running 0
> calico-system
                                                                       11m
```

### 네트워크

master/node]# curl -o /etc/containers/policy.json https://raw.githubusercontent.com/tangt64/training\_memos/main/opensource/kubernetes-101/files/policy.json

# 테크톤설치

## 2023-09-12

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#### 테크톤 설치

master]# kubectl apply --filename https://storage.googleapis.com/tekton-releases/pipeline/latest/release.yaml
master]# wget https://github.com/tektoncd/cli/releases/download/v0.32.0/tkn\_0.32.0\_Linux\_x86\_64.tar.gz
master]# kubectl apply --filename https://github.com/tektoncd/dashboard/releases/latest/download/tektondashboard-release.yaml

master]# kubectl delete validatingwebhookconfigurations.admissionregistration.k8s.io config.webhook.pipeline.tekton.dev

master]# kubectl delete validatingwebhookconfigurations.admissionregistration.k8s.io validation.webhook.pipeline.tekton.dev

master]# kubectl delete mutatingwebhookconfigurations.admissionregistration.k8s.io webhook.pipeline.tekton.dev

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#### 테크톤 설치

master]# kubectl delete validatingwebhookconfigurations.admissionregistration.k8s.io config.webhook.pipeline.tekton.dev

master]# kubectl delete validatingwebhookconfigurations.admissionregistration.k8s.io validation.webhook.pipeline.tekton.dev

master]# kubectl delete mutatingwebhookconfigurations.admissionregistration.k8s.io webhook.pipeline.tekton.dev

```
spec:
```

host Net work: true

replicas: 1

selector:

## argo-cd