

Kubernetes Installation steps for Cent-OS

Kubernetes uninstallation steps apply on all nodes and master

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- 1: k get nodes
- 2: k delete node worker1
- 3: k delete node worker2
- 4: k delete node master
- 5: yum remove kube* -y
- 6: yum remove *docker* -y
- 7: yum remove *container* -y
- 8: rm -rf /var/lib/docker
- 9: rm -rf /root/.kube
- 10: rm -rf /etc/kubernetes/
- 11: rm -rf /etc/containerd/
- 12: rm -rf /etc/cni/net.d/*
- 13: rm -rf /etc/yum.repos.d/kubernetes.repo
- 14: rm -rf /etc/yum.repos.d/docker-ce.repo

Installation steps for all nodes.

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For Master and nodes

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- 1: dnf config-manager --add-repo=https://download.docker.com/linux/centos/docker-ce.repo
- 2: dnf install
https://download.docker.com/linux/centos/7/x86_64/stable/Packages/containerd.io-1.2.6-3.3.el7.x86_64.rpm -y
- 3: dnf install docker-ce -y --allow-erase
- 5: systemctl enable docker
- 6: systemctl start docker
- 7: cat <<EOF > /etc/yum.repos.d/kubernetes.repo

[kubernetes]

name=Kubernetes

baseurl=https://packages.cloud.google.com/yum/repos/kubernetes-el7-x86_64

enabled=1

gpgcheck=1

repo_gpgcheck=1

gpgkey=https://packages.cloud.google.com/yum/doc/yum-key.gpg

https://packages.cloud.google.com/yum/doc/rpm-package-key.gpg

EOF

8: dnf install kubeadm -y

9: swapoff -a

10: rm /etc/containerd/config.toml

11: systemctl restart containerd

12: systemctl enable kubelet

13: systemctl start kubelet

In case of version different :

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yum install

https://download.docker.com/linux/centos/7/x86_64/stable/Packages/containerd.io*

For master only

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1: kubeadm init

in case facing error in above command

kubeadm reset

rm -rf /var/lib/etcd/*

2: mkdir -p \$HOME/.kube

cp -i /etc/kubernetes/admin.conf \$HOME/.kube/config

chown \$(id -u):\$(id -g) \$HOME/.kube/config

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

****For the Error : container runtime network not ready: NetworkReady=false
reason:NetworkPluginNotReady message:Network plugin returns error: cni plugin not initialized**

cat /etc/cni/net.d/10-weave.conf

```
{
  "cniVersion": "0.3.0",
  "name": "weave",
  "plugins": [
    {
      "name": "weave",
      "type": "weave-net",
      "hairpinMode": true
    },
    {
      "type": "portmap",
      "capabilities": {"portMappings": true},
      "snat": true
    }
  ]
}
```

4: systemctl restart containerd.service

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For Worker Nodes only:

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Step 1: Join the node to master

Apply token get below token from master node at the end of "kubeadm init " command

2: kubeadm join 10.121.27.22:6443 --token nwdba6.nolawyge26wdfqca --discovery-token-ca-cert-hash sha256:2249f46fa9b1f83943cc85ad4b2fed4c3810414af1d0d600957ebaf443463d1e

Incase of facing error

netstat -anp |grep 10250

kill -9 31150 --"31150 is process id of 10250"

kubeadm reset

rm -rf /etc/kubernetes/pki

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

4: mkdir -p \$HOME/.kube

cp -i /etc/kubernetes/kubelet.conf \$HOME/.kube/config

chown \$(id -u):\$(id -g) \$HOME/.kube/config

5: k get node