**Kubernates Installation steps for Cent-OS**

**Kubernate 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 --allowerasing**

**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.conflist**

**{**

**"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**