How to create kubernetes cluster with calico pod network

kubeadm init --apiserver-advertise-address=192.168.1.202 --pod-network-cidr=10.244.0.0/16

Install calico from the following link:

<https://projectcalico.docs.tigera.io/getting-started/kubernetes/self-managed-public-cloud/gce>

Add the kubernetes dashboard

After that join the other node to the cluster if worker node are not joining the cluster and show the error message like “error execution phase preflight: couldn't validate the identity of the API Server”, then disable the firewalld and try again

<https://stackoverflow.com/questions/61305498/kubernetes-couldnt-able-to-join-master-node-error-execution-phase-preflight>

How to disable firewall:

<https://www.tecmint.com/start-stop-disable-enable-firewalld-iptables-firewall/>

If kubectl get po -o wide –all-namespaces give node status 0/1 then it can be fix given blow

<https://github.com/projectcalico/calico/issues/2561>

Change the calico.yaml file by overriding that ip to etho-ip by using the following steps.

# Specify interface

- name: IP\_AUTODETECTION\_METHOD

value: "interface=eth1"

like :

containers:

# Runs calico-node container on each Kubernetes node. This

# container programs network policy and routes on each

# host.

- name: calico-node

image: calico/node:v3.8.2

env:

# Use Kubernetes API as the backing datastore.

- name: DATASTORE\_TYPE

value: "kubernetes"

# Wait for the datastore.

- name: WAIT\_FOR\_DATASTORE

value: "true"

# Set based on the k8s node name.

- name: NODENAME

valueFrom:

fieldRef:

fieldPath: spec.nodeName

# Choose the backend to use.

- name: CALICO\_NETWORKING\_BACKEND

valueFrom:

configMapKeyRef:

name: calico-config

key: calico\_backend

# Cluster type to identify the deployment type

- name: CLUSTER\_TYPE

value: "k8s,bgp"

# Specify interface

- name: IP\_AUTODETECTION\_METHOD

value: "interface=eth1"

# Auto-detect the BGP IP address.

- name: IP

value: "autodetect"