**Kubernetes Certificate Renewal**

**Check Certificate validity:**

Kubeadm certs check-expiration (for v20 or greater)

Kubeadm alpha certs check-expiration (for k8s v18 or less)

**If expired then run following commands:**

mkdir -p $HOME/k8s-old-certs/pki

sudo cp -p /etc/kubernetes/pki/\*.\* $HOME/k8s-old-certs/pki

ls $HOME/k8s-old-certs/pki

sudo cp -p /etc/kubernetes/\*.conf $HOME/k8s-old-certs

sudo cp -r /etc/kubernetes/pki/etcd/ $HOME/k8s-old-certs/pki

ls -ltr $HOME/k8s-old-certs

mkdir -p $HOME/k8s-old-certs/.kube

sudo cp -p ~/.kube/config $HOME/k8s-old-certs/.kube/.

ls -l $HOME/k8s-old-certs/.kube/.

kubeadm alpha certs renew all (for k8s v18 or less)

kubeadm certs renew all (for v20 or greater)

kubeadm alpha certs check-expiration

systemctl daemon-reload && systemctl restart kubelet.service

**TRY THIS:**

**cp -r .kube/ .kube\_bak**

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

**kubectl get nodes**

**OR**

**Move Static pods for 20-30 seconds**

mkdir $HOME/staticpod

mv /etc/kubernetes/manifest/\* $HOME/staticpod/

**Now move back to /etc/kubernetes/manifest/**

mv $HOME/staticpod/\* /etc/kubernetes/manifest/

**Confirm the kubelet services are running and communication between the worker nodes and the Kubernetes master is working**.

kubectl get nodes