Node red K3s deploying Configuration is given below:

**Deployment**

apiVersion: apps/v1

kind: Deployment

metadata:

name: node-red

labels:

app: node-red

spec:

selector:

matchLabels:

app: node-red

template:

metadata:

labels:

app: node-red

spec:

containers:

- name: node-red

image: nodered/node-red:latest

ports:

- containerPort: 1880

name: node-red-ui

securityContext:

privileged: true

volumeMounts:

- name: node-red-data

subPathExpr: $(NODE\_NAME)

mountPath: /data

env:

- name: NODE\_NAME

valueFrom:

fieldRef:

fieldPath: spec.nodeName

- name: TZ

value: America/Los\_Angeles

volumes:

- name: node-red-data

persistentVolumeClaim:

claimName: node-red-claim

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kind: PersistentVolumeClaim

apiVersion: v1

metadata:

name: node-red-claim

spec:

accessModes:

- ReadWriteOnce

resources:

requests:

storage: 1Gi

---

apiVersion: v1

kind: Service

metadata:

name: rode-red

spec:

selector:

app: node-red

type: LoadBalancer

loadBalancerIP: 192.168.0.103

ports:

- name: node-red-ui

port: 1880

protocol: TCP

targetPort: node-red-ui

**DaemonSet**

apiVersion: apps/v1

kind: DaemonSet

metadata:

name: node-red

labels:

app: node-red

spec:

selector:

matchLabels:

app: node-red

template:

metadata:

labels:

app: node-red

spec:

containers:

- name: node-red

image: nodered/node-red:latest

ports:

- containerPort: 1880

name: node-red-ui

securityContext:

privileged: true

volumeMounts:

- name: node-red-data

subPathExpr: $(NODE\_NAME)

mountPath: /data

env:

- name: NODE\_NAME

valueFrom:

fieldRef:

fieldPath: spec.nodeName

- name: TZ

value: America/Los\_Angeles

volumes:

- name: node-red-data

persistentVolumeClaim:

claimName: node-red-claim

---

kind: PersistentVolumeClaim

apiVersion: v1

metadata:

name: node-red-claim

spec:

accessModes:

- ReadWriteOnce

resources:

requests:

storage: 1Gi

---

apiVersion: v1

kind: Service

metadata:

name: rode-red

spec:

selector:

app: node-red

type: LoadBalancer

loadBalancerIP: 192.168.0.103

ports:

- name: node-red-ui

port: 1880

protocol: TCP

targetPort: node-red-ui

**To deploy the file**

* **Save the file as node-red.yaml**
* **Run the command [**kubectl apply -f node-red.yaml**]**

**Now check the container using**  [ kubectl get pod]