K3s Grafana configuration is given below:

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apiVersion: v1

kind: PersistentVolumeClaim

metadata:

name: grafana-pvc

spec:

accessModes:

- ReadWriteOnce

resources:

requests:

storage: 1Gi

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apiVersion: apps/v1

kind: Deployment

metadata:

labels:

app: grafana

name: grafana

spec:

selector:

matchLabels:

app: grafana

template:

metadata:

labels:

app: grafana

spec:

securityContext:

fsGroup: 472

supplementalGroups:

- 0

containers:

- name: grafana

image: grafana/grafana:9.1.0

imagePullPolicy: IfNotPresent

ports:

- containerPort: 3000

name: http-grafana

protocol: TCP

readinessProbe:

failureThreshold: 3

httpGet:

path: /robots.txt

port: 3000

scheme: HTTP

initialDelaySeconds: 10

periodSeconds: 30

successThreshold: 1

timeoutSeconds: 2

livenessProbe:

failureThreshold: 3

initialDelaySeconds: 30

periodSeconds: 10

successThreshold: 1

tcpSocket:

port: 3000

timeoutSeconds: 1

resources:

requests:

cpu: 250m

memory: 750Mi

volumeMounts:

- mountPath: /var/lib/grafana

name: grafana-pv

volumes:

- name: grafana-pv

persistentVolumeClaim:

claimName: grafana-pvc

---

apiVersion: v1

kind: Service

metadata:

name: grafana

spec:

ports:

- port: 3000

protocol: TCP

targetPort: http-grafana

selector:

app: grafana

sessionAffinity: None

type: LoadBalancer

**Now deploy the configuration:**

1. Run the following command: kubectl apply -f grafana.yaml
2. Check that it worked by running the following: kubectl port-forward service/grafana 3000:3000
3. Navigate to localhost:3000 in your browser. You should see a Grafana login page.
4. Use admin for both the username and password to login.