Volumes : persistent storage

1. persistent data even pod recreated in replica set ( if pod deletes rs creates new one)
2. sharing of the data between pod in different replica sets

Types

emptyDir – stores the data with in the POD

spec:

      containers:

        - image: mongo

          name: mongo

          args: ["--dbpath", "/data/db"]

          env:

            - name: MONGO\_INITDB\_ROOT\_USERNAME

              value: "admin"

            - name: MONGO\_INITDB\_ROOT\_PASSWORD

              value: "password"

          volumeMounts:

            - mountPath: "/data/db"

              name: mongo-volume

      volumes:

        - name: mongo-volume

          emptyDir: {}

delete the container and check data is available or not

1. go to pod

kubectl exec -it podname -- /bin/bash

1. check the container process id

ps aux

1. delete the process which Is associated with container

kill process id

to check the volume data

volume data will be stored on node

minikube ssh

sudo ls /var/lib/kubelet/pods/<pod d>/volumes/kubernetes.io~empty-dir/nginx-volume

to get the pod id

kubectl get pod <podname> -p yaml

hostPath valumes : data will be stored on node . can be access by the all pod in node . but can not shared by other nodes .