Deployment -------🡪

As we discuss if we want high availability for our app we’re going to use Replicaset.

A screenshot of a computer

Description automatically generated

So if there is new tag released for this image and we want to migrate to new tag what should we do?

If we update image on replica set we need to delete all pods then pods will deployed again.

So we need Deployment…..

Deployment ----------🡪 k8s that manage updates on app based on updating strategies.

A screenshot of a computer

Description automatically generated

Note --🡪

When deployment is created it create replicaset that hold pods.

How to create deployment ?

apiVersion: apps/v1 -------🡪 k8s api version used to create object

kind: Deployment --🡪 object we’re trying to create

metadata: -----🡪 data about object

name: httpd-frontend

spec: --------🡪 Requirements for creating objects

replicas: 3

template:

metadata:

name: pod1

labels:

app: tier

spec:

containers:

- name: c1

image: httpd:2.4-alpine

selector:

matchLabels:

app: tier

how to create deployment on cli?

$ kubectl create deployment deployment\_name --replicas=num --image=image\_name

How to list deployment ?

$ kubectl get deployments

How to get detailed info about deployment ?

$ kubectl describe deployment. Deployment\_name

How to delete deployment ?

$ Kubectl delete deployment deployment\_name

How to generate yaml file for deployment without creating it ?

$ kubectl create deployment deployment\_name --replicas=num --image=image\_name -o yaml --dry-run=client > file.yml

Definition for deployment stored on this file -🡪 to create deployment

$ kubectl apply -f file\_name