Labels && Selectors

Labels -----🡪 properties added to each item (object) to unify object.

Labels are optional.

Used to connect different objects together. (Deployment , Replicaset , Repication controller) with pod.

Service && pod.

Selectors -----🡪 used to filter objects

How to define labels

metadata:

name: #object name

labels:

key:value

How to filter objects ?

$ kubectl get pods --selector key=value

What is annotation ? is used for providing detailed information, contact phone,email address,buildVersion

How to define annotation?

metadata:

annotations:

buildVersion: 4.7

Lab

1. We have deployed a number of PODs. They are labelled with tier, env and bu. How many PODs exist in the dev environment (env)?

Use selectors to filter the output

$ kubectl get pods --selector env=dev

How many PODs are in the finance business unit (bu)?

$ kubectl get pods --selector bu=finance

How many objects are in the prod environment including PODs, ReplicaSets and any other objects?

$ kubectl get all --selector env=prod

Identify the POD which is part of the prod environment, the finance BU and of frontend tier?

$ kubectl get pods --selector env=prod,bu=finance,tier=frontend

Create replicaset from yaml file ?

Replicas =2 image=nginx

vi replica1.yml

apiVersion: apps/v1

kind: ReplicaSet

metadata:

name: replicaset-1

spec:

replicas: 2

selector:

matchLabels:

tier: nginx

template:

metadata:

labels:

tier: nginx

spec:

containers:

- name: nginx

image: nginx

$ kubectl create -f replica1.yml