

KUBERNETES - DEPLOYMENT

Github repo..

<https://github.com/vsaini44/KubernetesRepo.git>

Updating Apps?

This module covers how to update apps running in a Kubernetes cluster and how Kubernetes helps you move toward a true zero-downtime update process.

Although this can be achieved using only ReplicationControllers or ReplicaSets, Kubernetes also provides a Deployment resource

What is deployment

A Deployment is a higher-level resource meant for deploying applications and updating them declaratively, instead of doing it through a ReplicationController or a ReplicaSet, which are both considered lower-level concepts



Syntax

apiVersion: apps/v1beta1

kind: Deployment

metadata:

name: dp1

spec:

Replicas: 3

Selector:

MatchLabels:

Env: prod

template:

Metadata:

labels:

Env: prod

spec:

containers:

- image: imagename

name: nodejs

Deployment Strategies

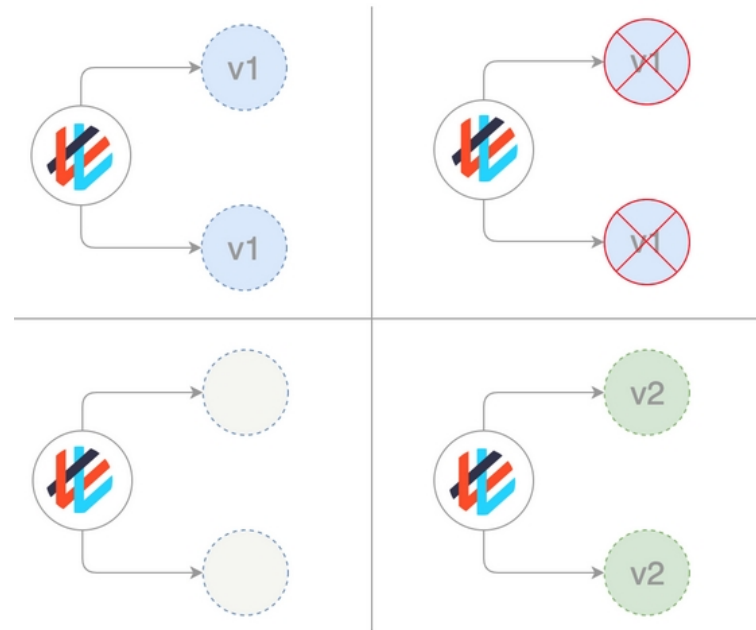
- * recreate : native**
- * ramped/rolling out : native**

Additional strategies are available which may requires additional steps or additional components

- * blue/green**
- * canary**

Recreate

In this type of very simple deployment, all of the old pods are killed all at once and get replaced all at once with the new ones.



Rolling Deployment

It works by slowly, one by one, replacing pods of the previous version of your application with pods of the new version without any cluster downtime

