



kubernetes

Kubernetes: Replica Set

KUBERNETES : Basics of Kuebernetes

- **Replica Set** is enhance version of Replication Controller.
- **ReplicaSet's** purpose is to maintain a **stable set of replica Pods** running at any given time.
- The main difference between a Replica Set and a Replication Controller right now is the **selector support**.
- The second thing is the updating the pods.

KUBERNETES : Basics of Kuebernetes

- **Replica Set** : Replica Set supports the new set-based selector.
This gives more flexibility.
Ex. environment in (production, qa)
This selects all resources with key equal to environment and value equal to production or qa
- **Replication Controller** : Replication Controller only supports equality-based selector.
Ex. environment = production
This selects all resources with key equal to environment and value equal to production

KUBERNETES : Basics of Kuebernetes

- **Replica Set** : rollout command is used for updating the replica set.

Even though replica set can be used independently, it is best used along with deployments which makes them declarative.

- **Replication Controller** : rolling-update command is used for updating the replication controller.

This replaces the specified replication controller with a new replication controller by updating one pod at a time to use the new PodTemplate.

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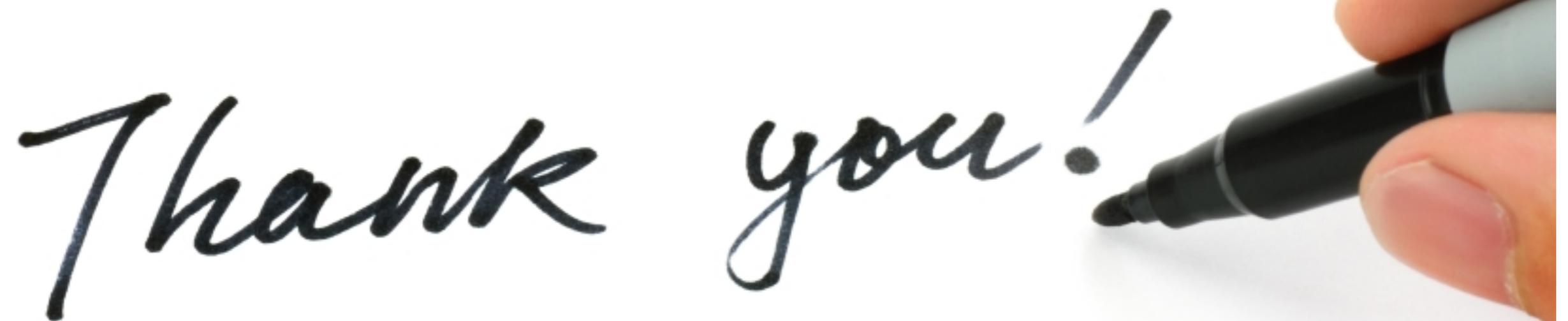
- **Replica Set manifest components.**
- **Start ReplicaSet**
kubectl create -f <Manifest_File>
- **Get Running Replica Sets**
kubectl get rs
- **Describe Replica Set**
kubectl describe rs/<Replica Set Name>

KUBERNETES : Basics of Kuebernetes

- **Replica Set Non-Template Pods acquisitions.**
- It is strongly recommended to make sure that the bare Pods do not have labels which match the selector of one of your ReplicaSets.
- Those Pods do not have a Controller (or any object) as their owner reference and match the selector of the ReplicaSet, they will immediately be acquired by it.
- Delete Replica Set
- Scale Replica Sets
`kubectl autoscale rs/<ReplicaSetName> --max=<Replica Count>`

Will see you in Next Lecture...

Thank you!

A close-up photograph of a hand holding a black marker, writing the words 'Thank you!' in a cursive script on a white surface. The hand is positioned on the right side of the frame, with the marker tip touching the paper. The background is plain white.

See you in next lecture ...