
Deployments in Kubernetes

K8s Deployments Overview



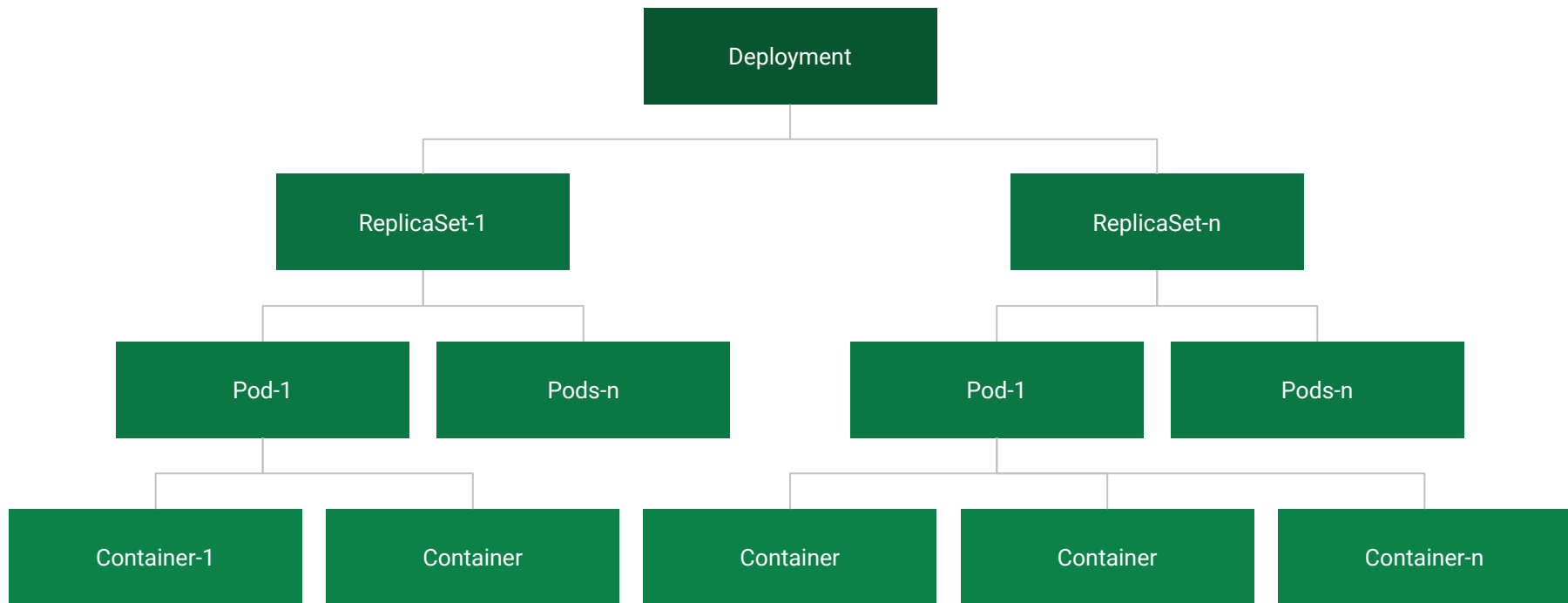


Deployments

- What is Deployment
- Desired State
- Deployment Use Cases
- HandsOn Demonstration

Deployments

- **Deployment** is one step higher than ReplicaSet.
- Deployment is desired State of ReplicaSet.
- Deployments control both **ReplicaSets** and **Pods** in a declarative manner.
- Smallest unit of Deployment, a Pod, runs containers. Each Pod has its own IP address and shares a PID namespace, network, and host name.

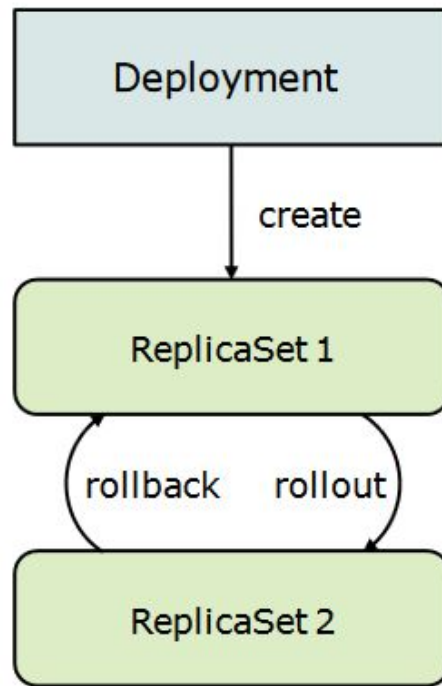


Use Case of Deployment

- **Create Deployment** : Deploy Application Pods.
- **Update Deployment** : Push new version of Application in Controlled Manner.
- **Rolling Upgrade** : Upgrade Application in Zero Downtime.
- **Rollback** : Rollback the Upgrade in case of unstable Upgrade. Revise the Deployment State.

Use Case of Deployment

- **Pause/Resume Deployment :**
Rollout a certain percentage.
- Deployment RollOut Upgrade and Rollback Update.



Hands On Demonstration

Thank You...

Don't be the Same! Be Better!!!
