

ThoughtWorks®

DEPLOYMENTS

Rise of the Containers Workshop

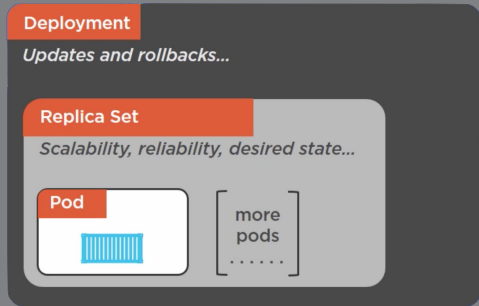


BUT...Again ??? Yeahh..you get it..

*Replica Sets are good but we want
something better.*

What is missing in RS ?

- Updates with zero downtime (Rolling Updates)
- Rollbacks

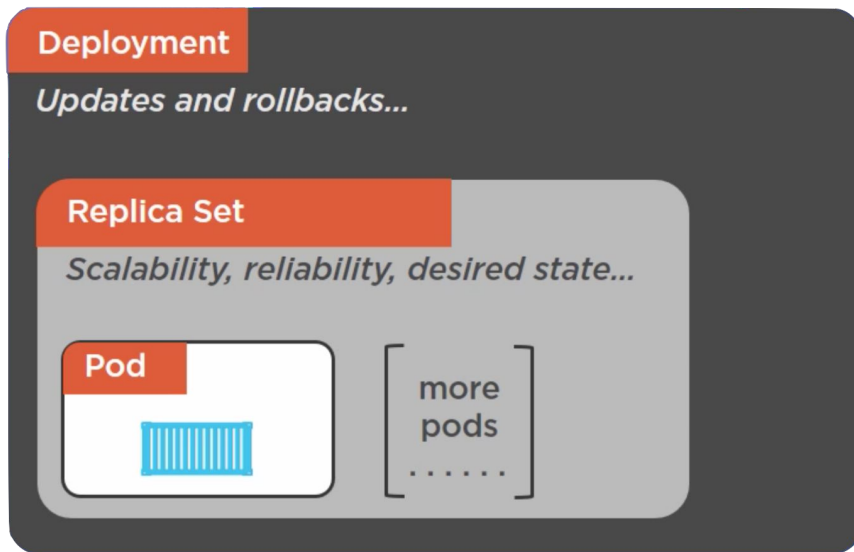


Deployments

A Deployment is a higher-level concept that manages ReplicaSets and provides declarative updates to pods along with a lot of other useful features.

Deployments

- Abstraction on top of Replica Sets.
- Provide updates and rollbacks for Replica Sets

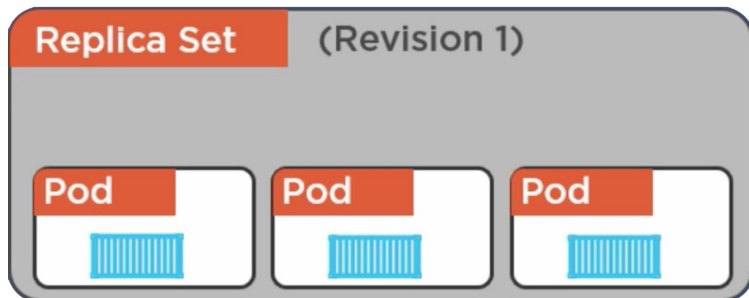


Current State: Revision 1

```
apiVersion:  
extensions/v1beta1  
kind: Deployment  
metadata:  
  name: hello-deploy  
spec:  
  replicas: 10  
  ...
```



Deployed
to Cluster

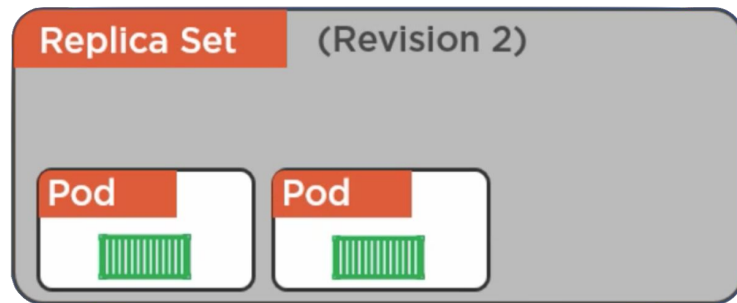
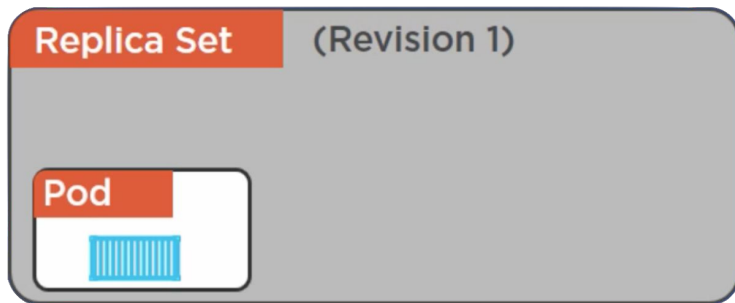


Rolling Updates: Revision 2

```
apiVersion:  
extensions/v1beta1  
kind: Deployment  
metadata:  
  name: hello-deploy  
spec:  
  replicas: 10  
  ...
```



Deployed to
Cluster

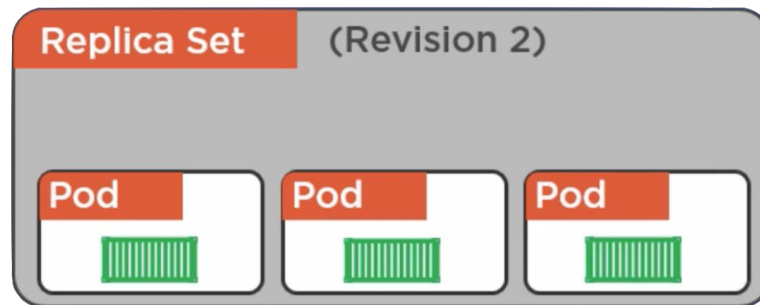
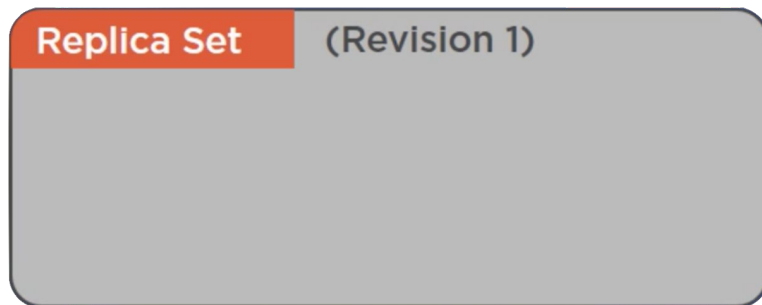


Rolling Updates: Revision 2 Complete

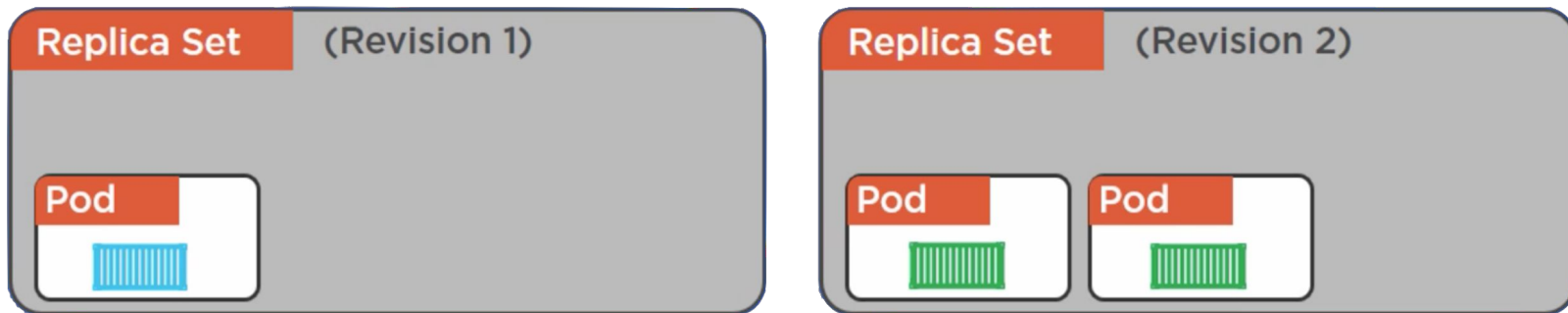
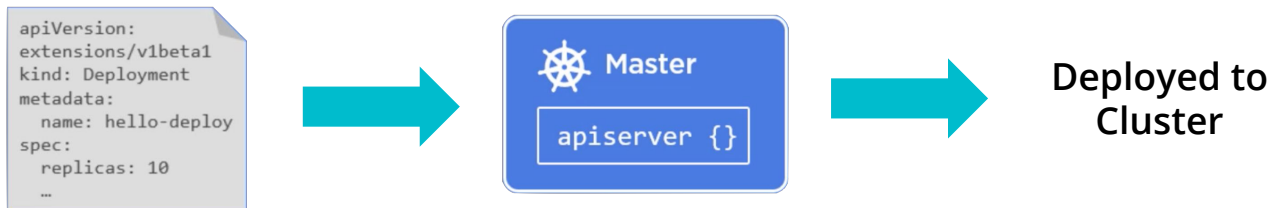
```
apiVersion:  
extensions/v1beta1  
kind: Deployment  
metadata:  
  name: hello-deploy  
spec:  
  replicas: 10  
  ...
```



Deployed to
Cluster



Rollbacks to Revision 1



Deployment Demo

HANDS-ON

1. Create Deployment Object for the Metadata Service 1.0
2. Create a NodePort Service for it
3. Rollout new image version of MetaData Service 2.0
4. Access the application via browser.

THANK YOU

For questions or suggestions:

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