

Kubernetes

Deployments, Scaling, Rolling Update



Who am I ?

Indrajati Widyatmoko - Loket.com

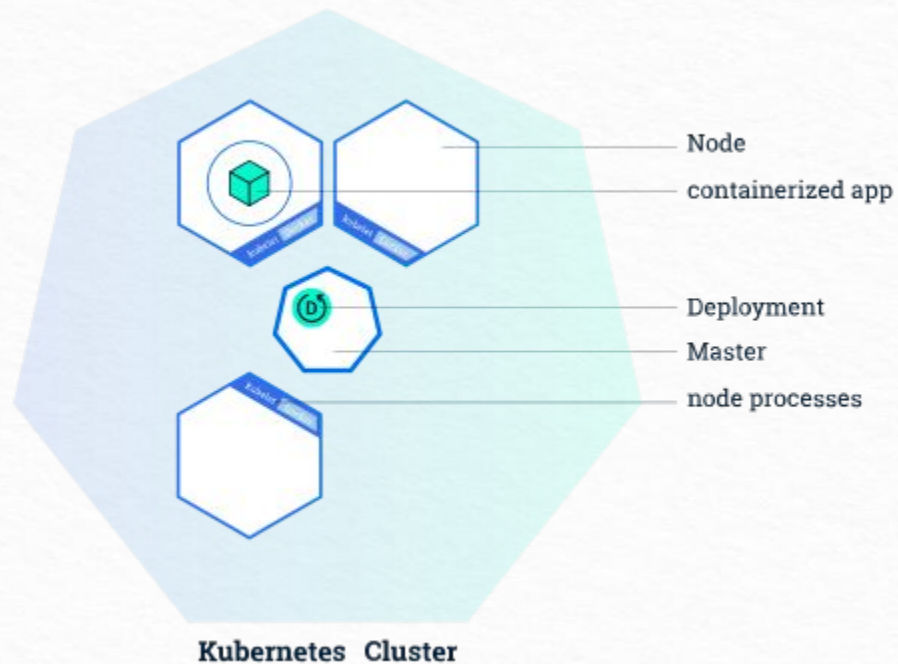


Today's Outline

- Kubernetes Deployment
- Scaling
- Rolling Update
- Canary Deployment
- Blue / Green Deployment

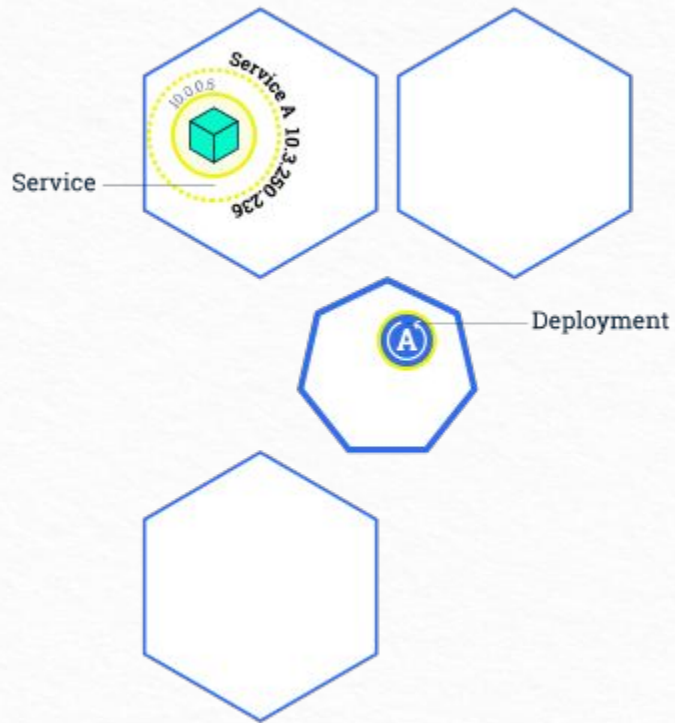


Kubernetes Deployments



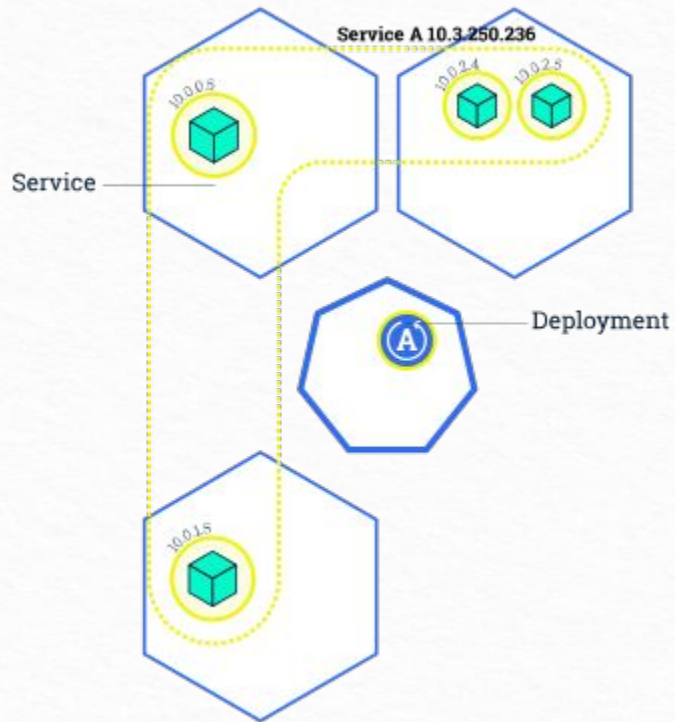


Scaling



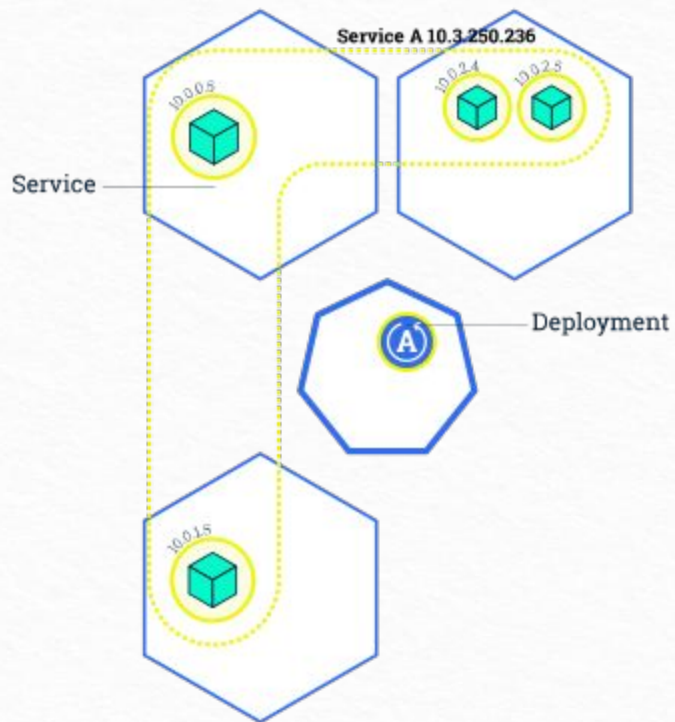


Scaling



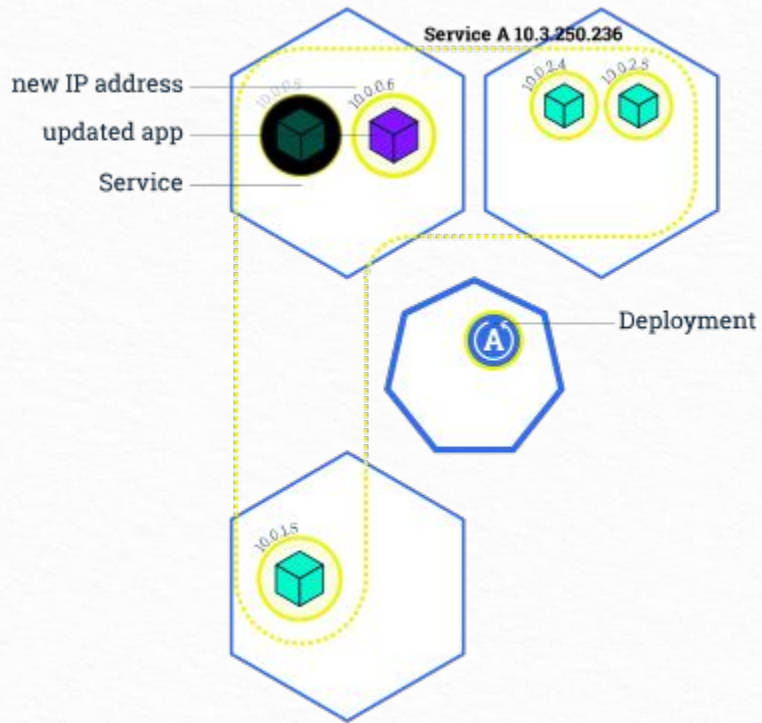


Rolling Update



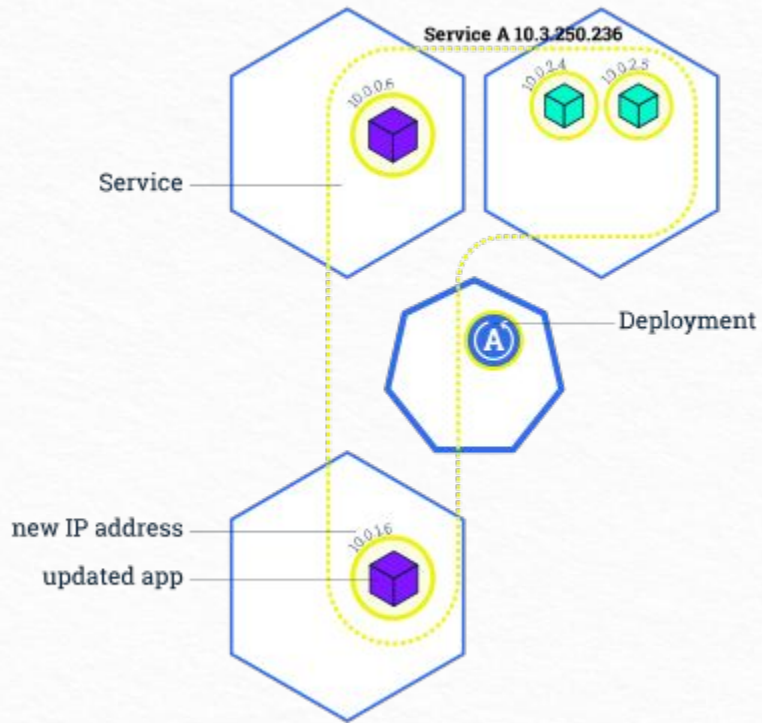


Rolling Update



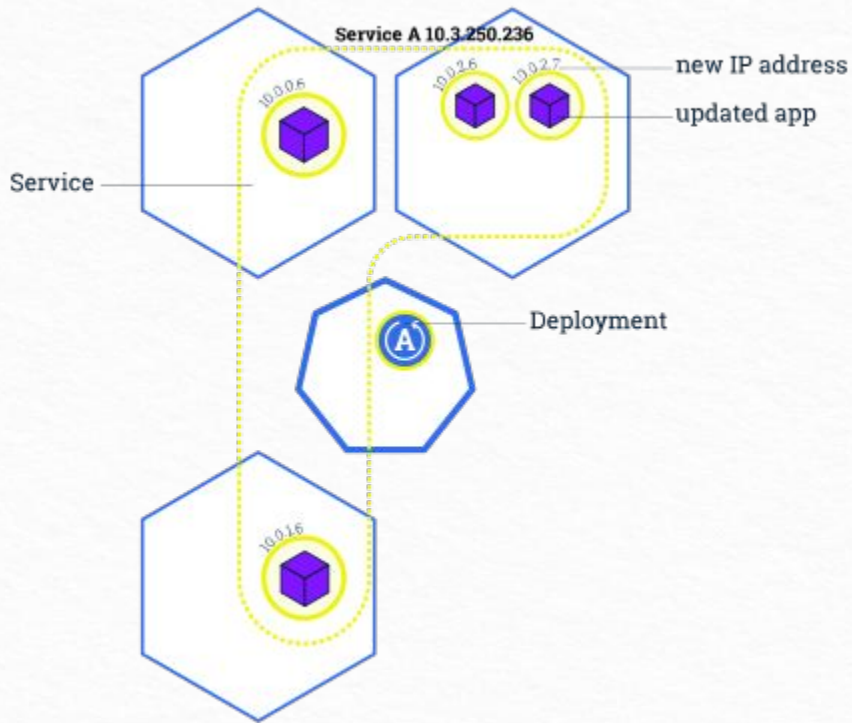


Rolling Update



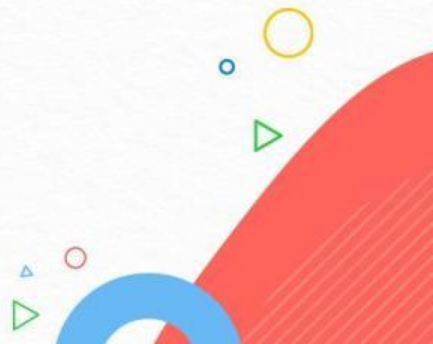


Rolling Update





Kubernetes Deployment Demo

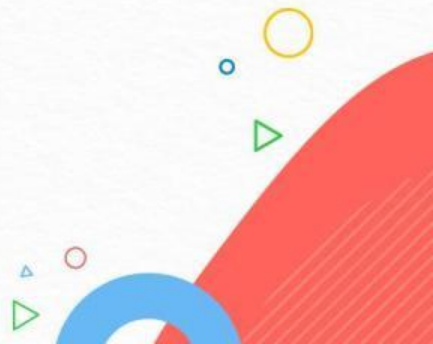




Kubernetes Scaling Up Demo!

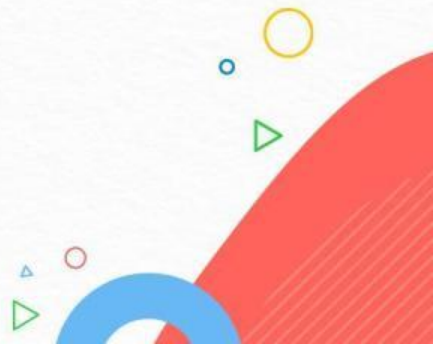


Kubernetes Scaling Down Demo!



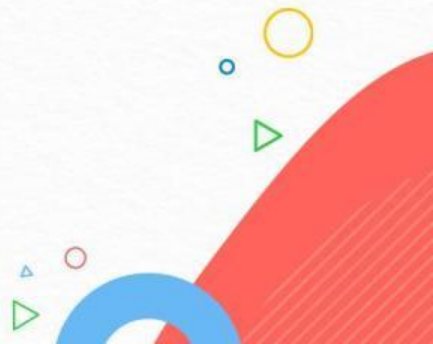


Rolling Update Demo!





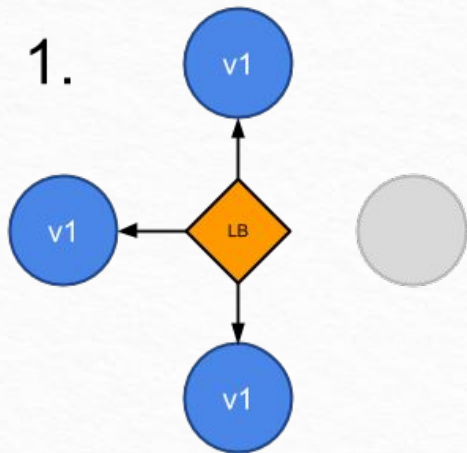
Rolling Back Demo!



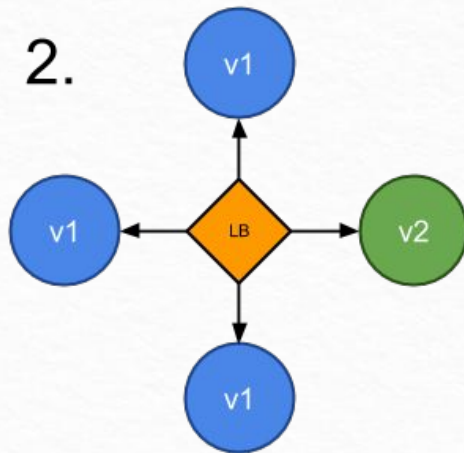


Canary Deployment

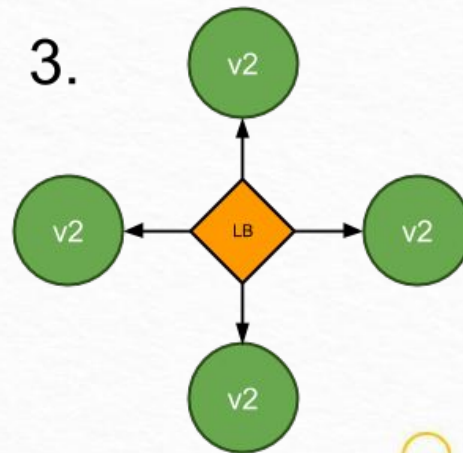
1.



2.

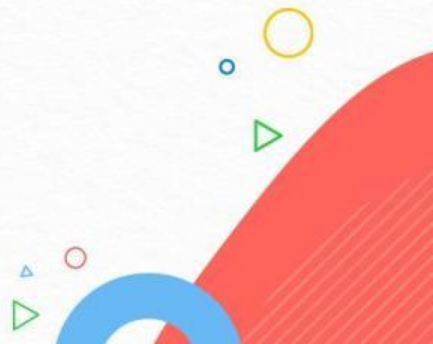


3.



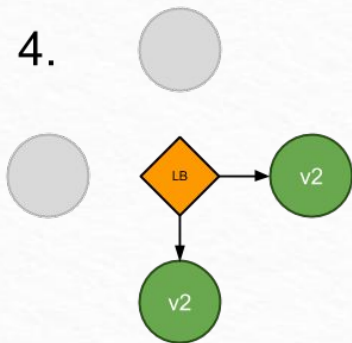
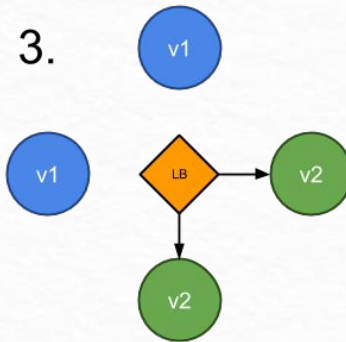
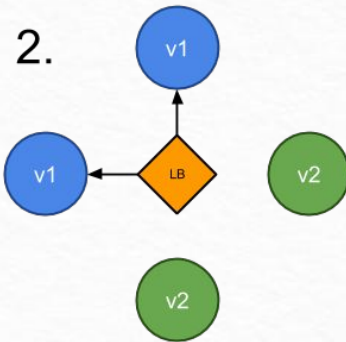
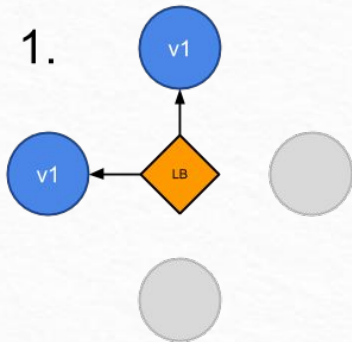


Canary Demo!



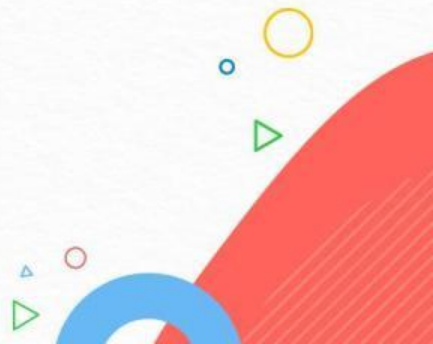


Blue Green Deployments





Blue Green Demo!





Further Reading / Resources

1. <https://kubernetes.io/docs/concepts/cluster-administration/manage-deployment/>
2. <https://kubernetes.io/docs/concepts/workloads/controllers/replicaset/>
3. <https://kubernetes.io/docs/concepts/workloads/controllers/deployment/>

For autoscaling :

1. <https://kubernetes.io/docs/tasks/run-application/horizontal-pod-autoscale/>

For exposing Pods tutorial :

1. <https://kubernetes.io/docs/tutorials/kubernetes-basics/expose/expose-intro/>

For interactive tutorial / tutorials :

1. <https://kubernetes.io/docs/tutorials/kubernetes-basics/deploy-app/deploy-intro/>
2. <https://kubernetes.io/docs/tutorials/kubernetes-basics/scale/scale-intro/>
3. <https://kubernetes.io/docs/tutorials/kubernetes-basics/update/update-intro/>
4. <https://www.qwiklabs.com/focuses/639?parent=catalog>
5. <https://rinormaloku.com/kubernetes-in-practice-deployments/>



Further reading / Resource (Con't)

Blue Green Tutorial

1. <https://github.com/IanLewis/kubernetes-bluegreen-deployment-tutorial>

Deployment Strategies

1. <https://container-solutions.com/kubernetes-deployment-strategies/>



Thank You!

Any Question ?

Don't hesitate to ask mas giri, or mas imre ;)



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