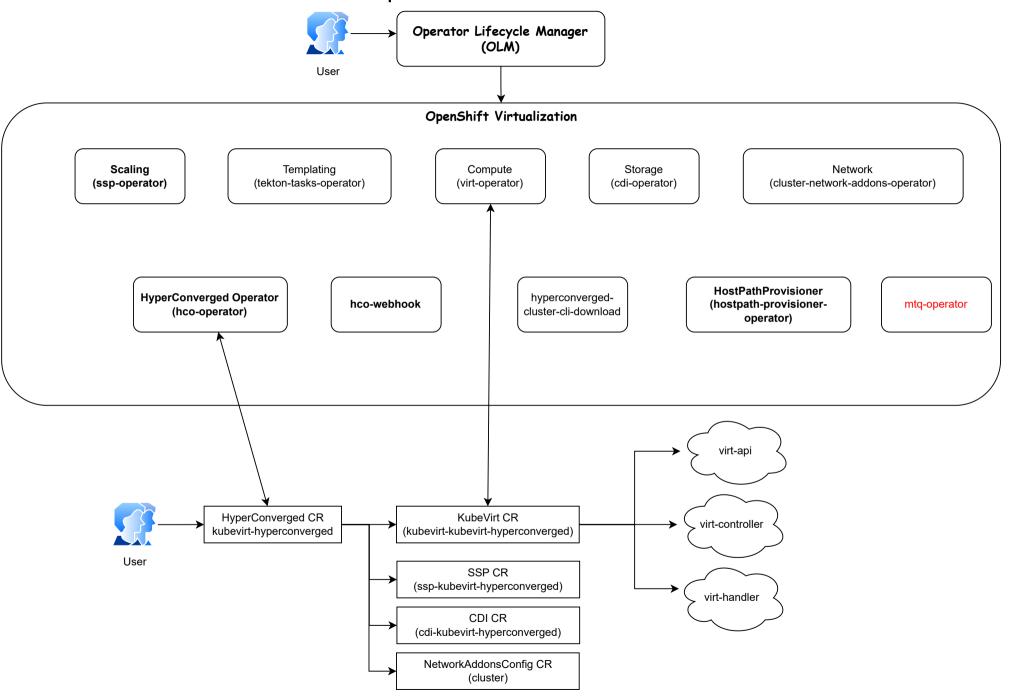
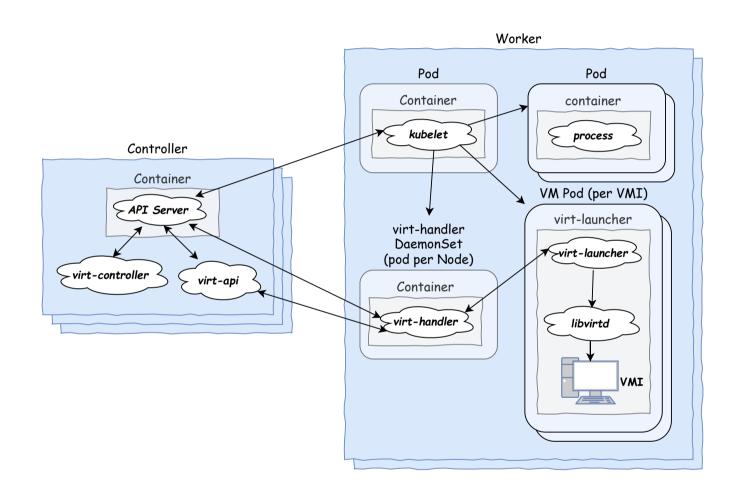
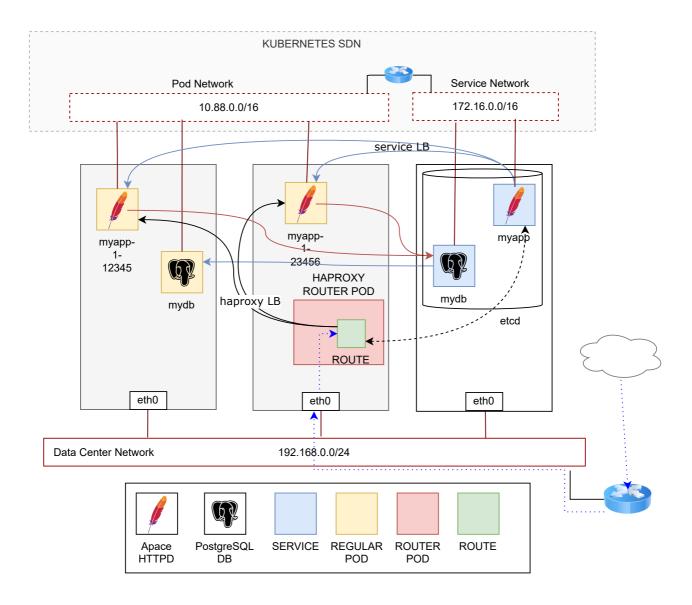
OpenShift Virtualization



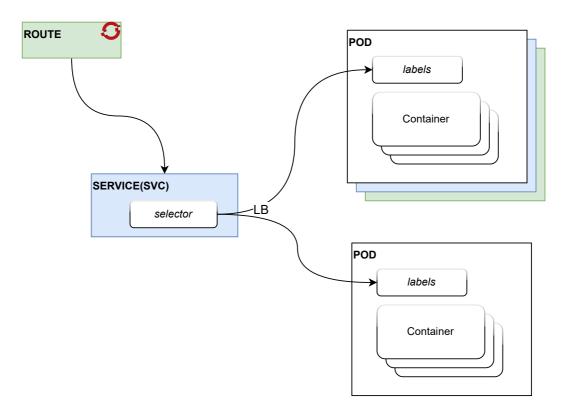


Network



Service LB Pods using Linux Netfilter feature

Route, Service and Pod Relationship



POD

A pod contains one or more containers.

SERVICE

A service references the pod(s) by using the label selector.

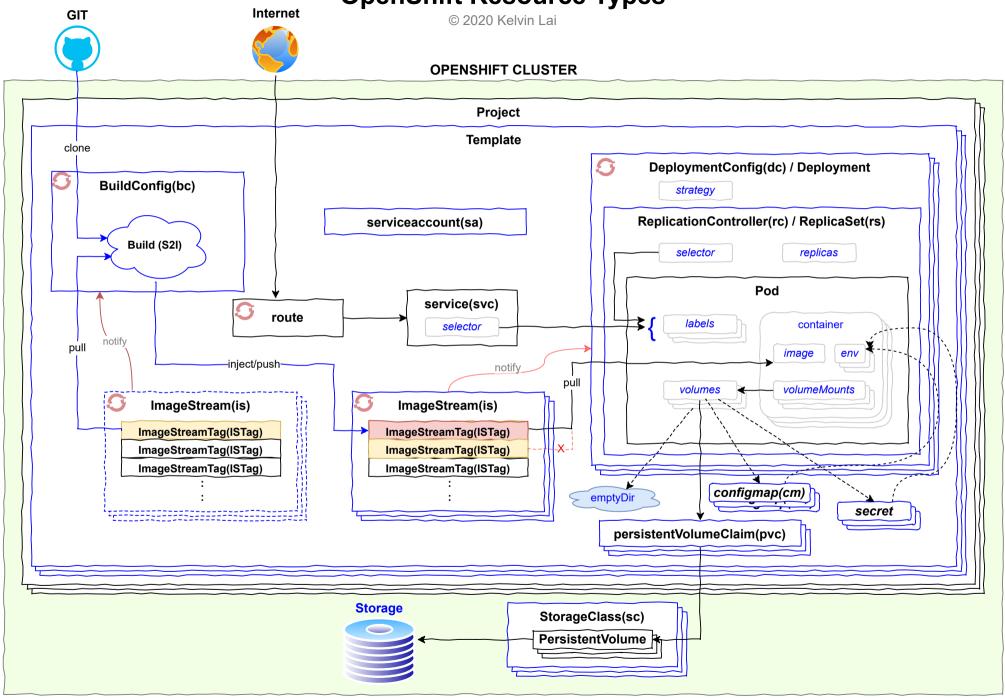
The service load balances the connections between all the pods.

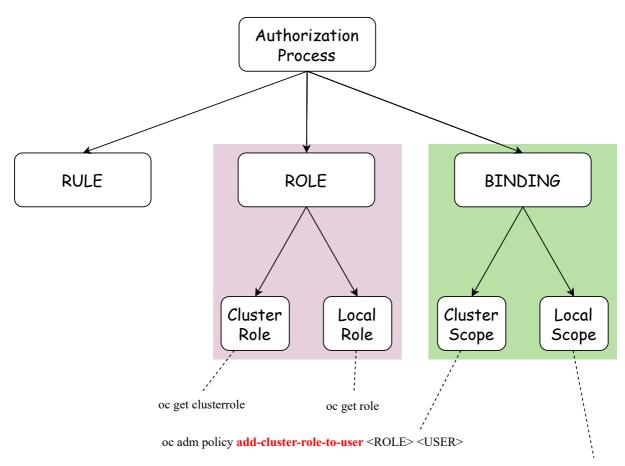
ROUTE

A route exposes the service to the external world.

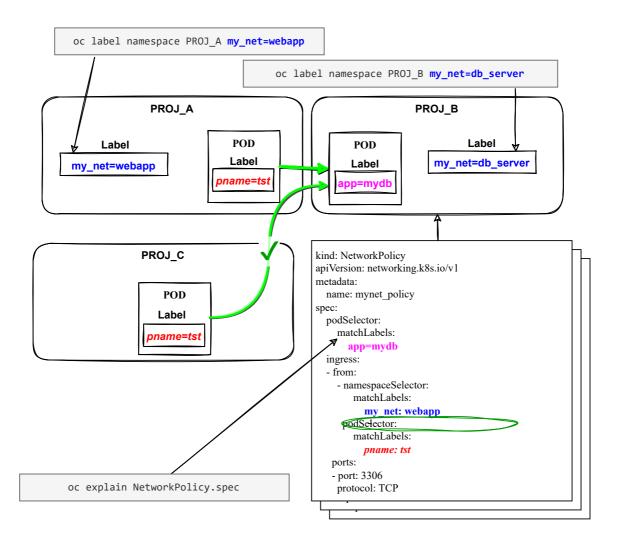
Warning: A service "can" refer to different pods, if the pods have the same label.

OpenShift Resource Types

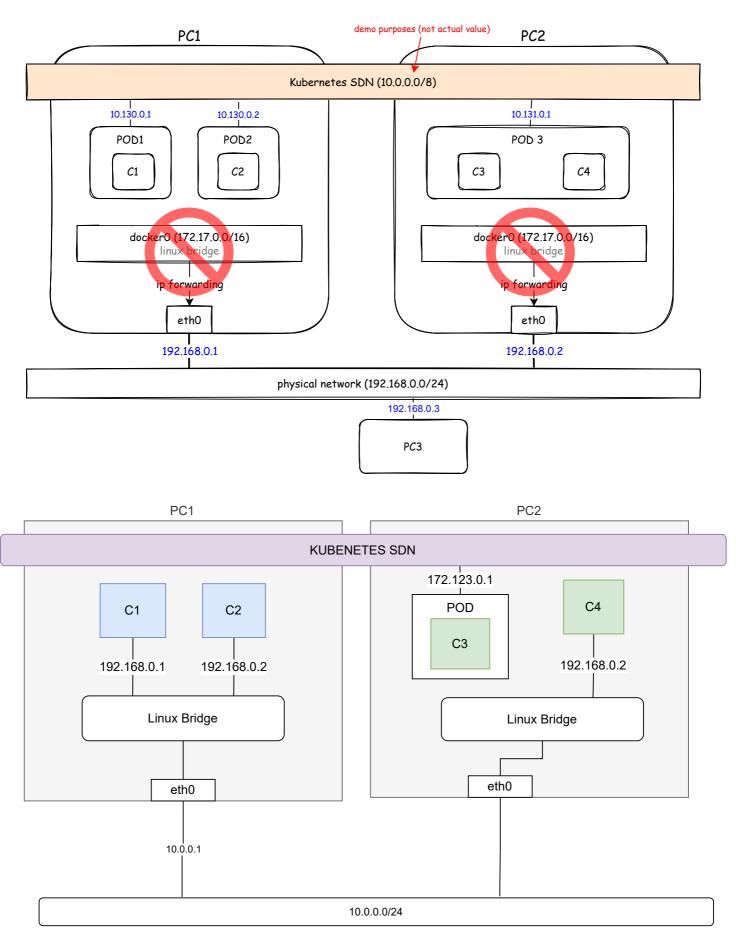




oc adm policy add-role-to-user <ROLE> <USER> [-n <PROJNAME>]

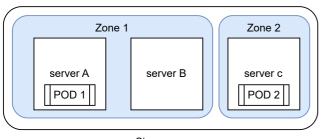


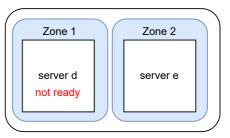
Basic Network - Container vs Kubernetes

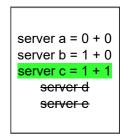


POD Scheduling

- 1. Get a list of all NODES
- 2. Go through all the predicates for FILTERing. If NODE fails predicate rule, <u>remove from list.</u> Region affinity.
- 3. With remainder list of NODES, prioritize them using the weightage rules. <u>NO filtering of NODES done here</u>. Zone anti-affinity.
- 4. Select the NODE with highest points.







Singapore Malaysia

oc label node <NODE> <KEY>=<VALUE> Region

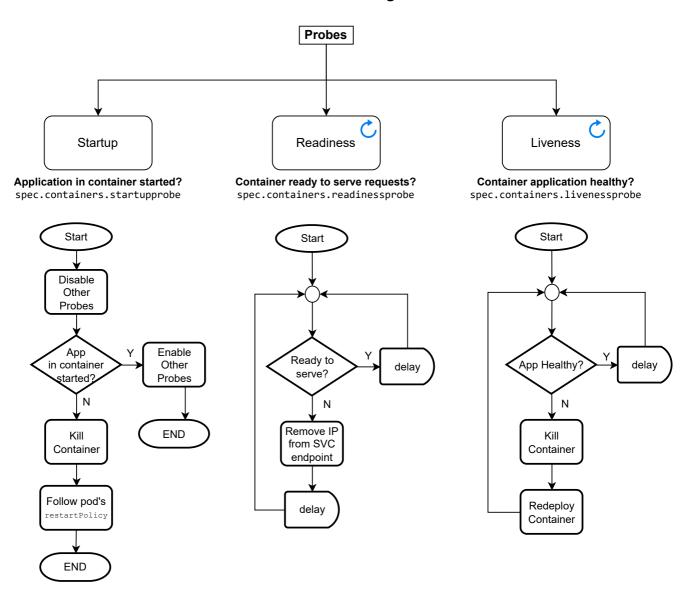
<KEY> = failure-domain.beta.kubernetes.io/region

A set of hosts in closed geographical area. High speed connectivity.

Zone (availability zone)
<KEY> = failure-domain.beta.kubernetes.io/zone

A set of hosts that share common critical infra components (ups, switch, storage)

Health Monitoring



successThreshold = 1 failureThreshold = 3