SDNC Clustering

SDNC Clustering Highlights

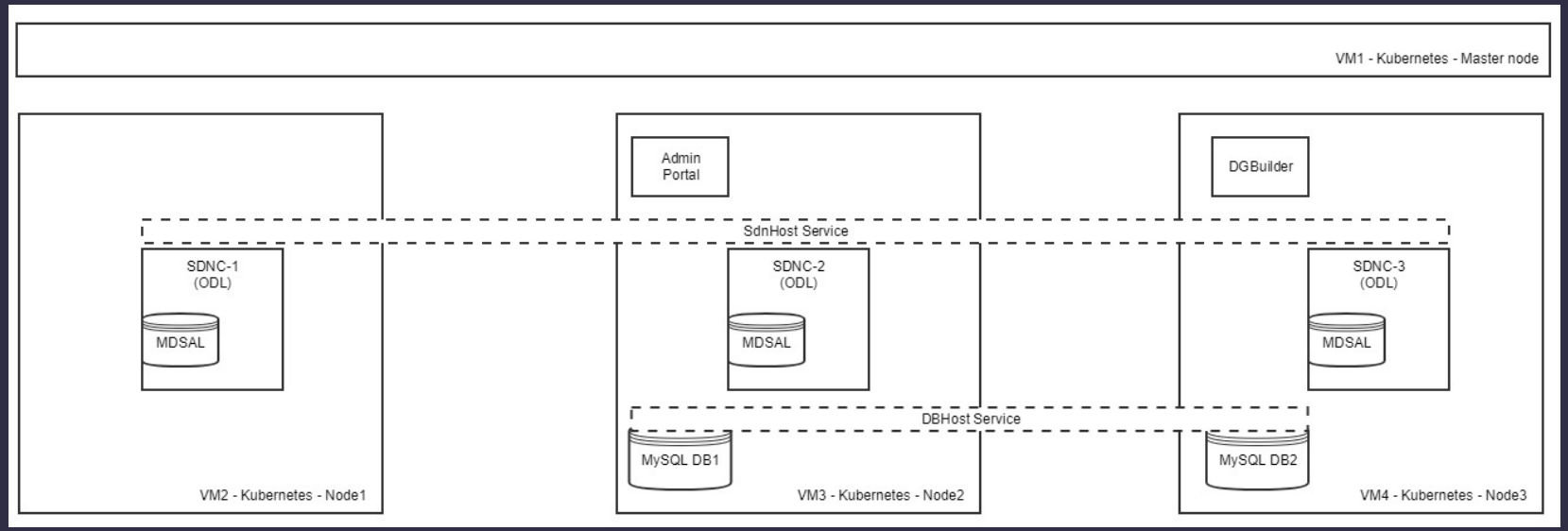
- 1st ONAP component in ONAP achieving Site Resiliency
  - presented at the ONAP's F2F in Santa Clara Dec-2017
  - now used as a template by other ONAP components

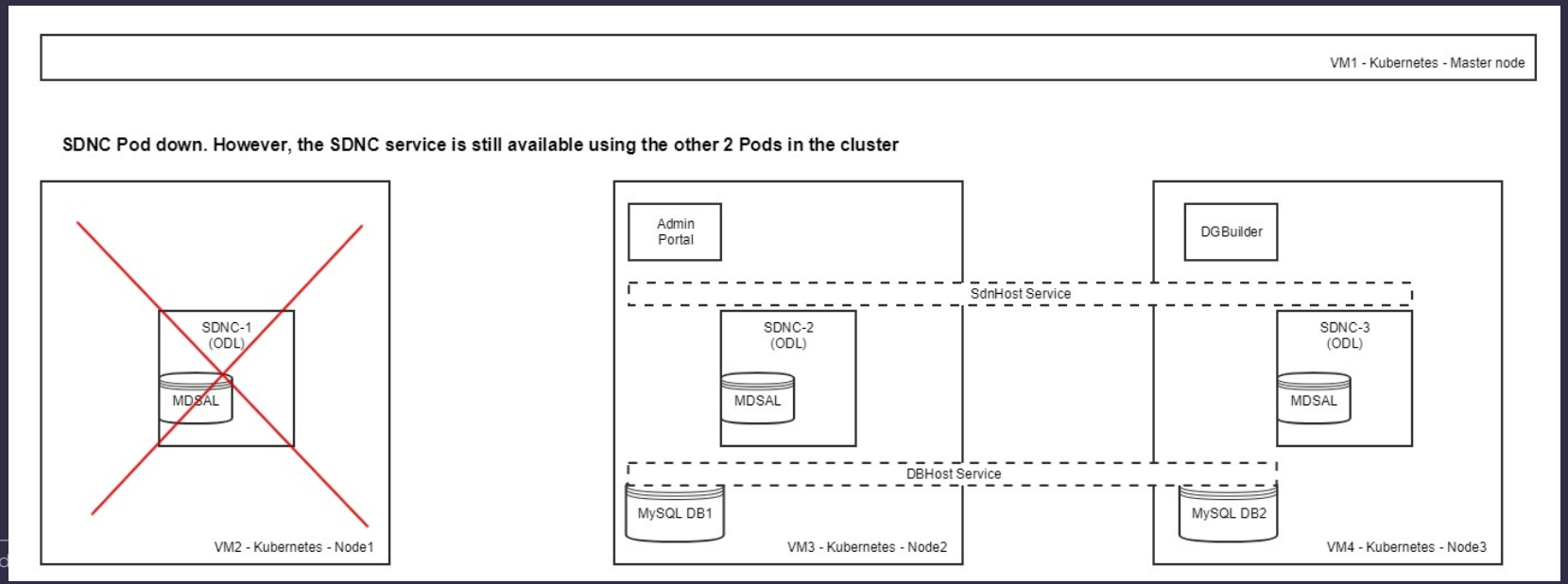
- ONAP Collaboration
  - Built on top ONAP OOM
  - Worked closely with AT&T ONAP SDNC team.

Solution Summary

- Clustering Summary
  - 2 DB pods
  - 3 sdnc (ODL) pods
  - 1 admin (portal) pod
  - 1 dgbuilder pod
- Services requests even when one of the pods in the cluster is down
- Automatic restart of pods
- Scaling/Descaling MySQL pods dynamically
- Data Replication
  - Clustering 2 persistent stores – MDSAL (inside OpenDayLight) and MySQL.
  - Replicating stateless and stateful processes
- Single click installing SDNC Cluster in an Openstack environment

SDNC Clustering Architecture





What demos are available? (Recipe)

- SDN-C Application Clustering
- SDN-C Database Clustering
  - Scaling/Descaling MySQL pods dynamically.
- Demo page:
  - https://wiki.onap.org/display/~rahuliitr/Demo%3A+SDN-C+high+availability+environment+-+Kubernetes

ONAP Wiki Documentation

- https://wiki.onap.org/display/DW/SDN-C+Clustering+on+Kubernetes
- https://wiki.onap.org/display/DW/Deployment+with+Kubernetes+Cluster+Configured+by+Rancher
- https://wiki.onap.org/display/DW/Deploying+Kubernetes+Cluster+with+kubeadm