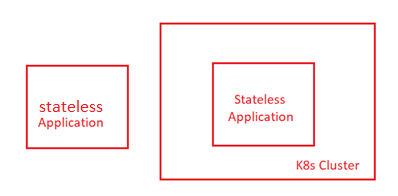
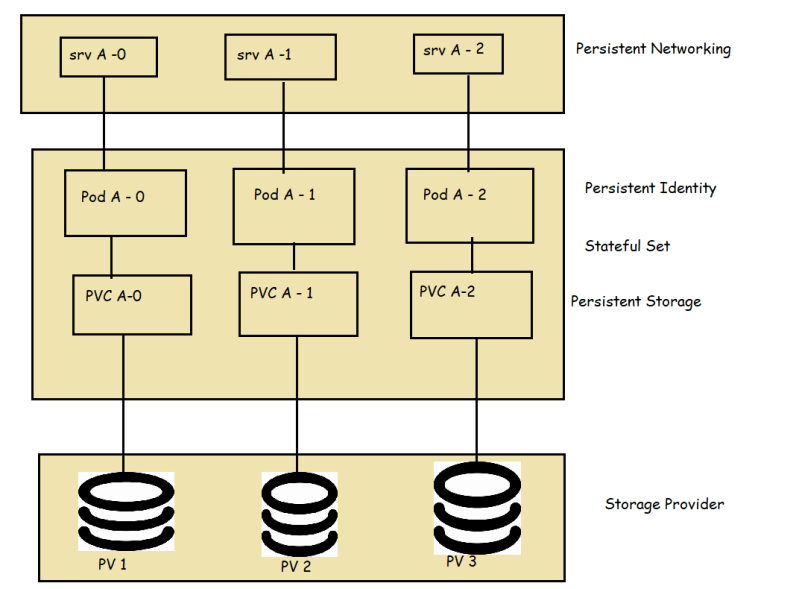
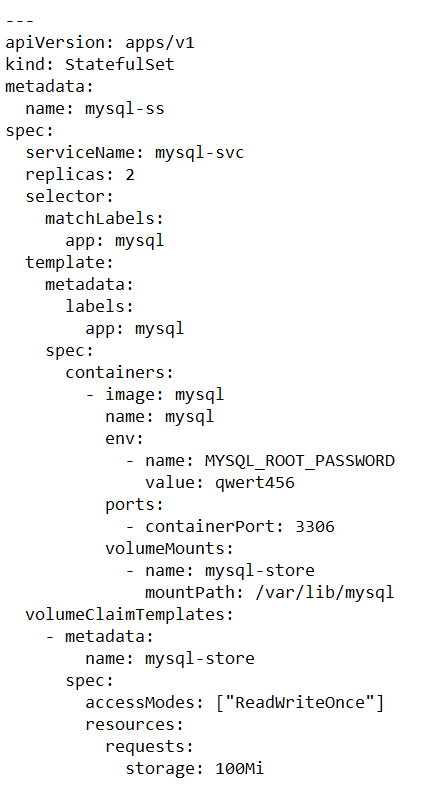
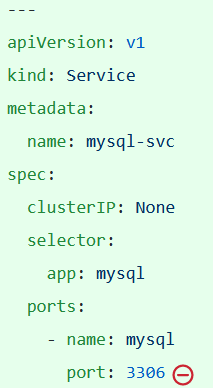
**Stateful Service**

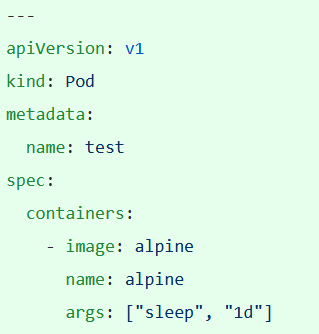
* Overview: Distributed Stateful applications require features such as persisted identity, networking, storage.
* Problem:
  + In real world behind every highly scalable stateless service is a stateful service typically in the shape of datastore
  + In early days of k8s when it lacked support of stateful workloads, the solution was to place stateless applications in k8s cluster and stateful applications outside cluster.

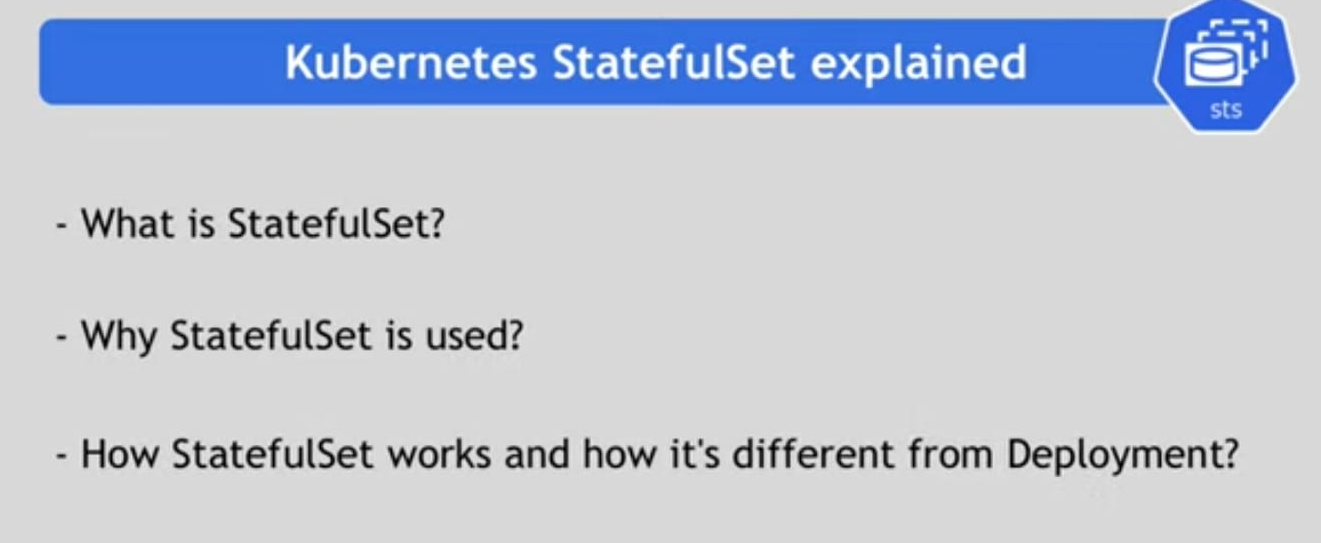


* + Single instance stateful application => We create replica set and also Persistent Volume Claims & Persistent Volumes.
* Solution:
  + K8S has StatefulSets that provides managing stateful applications. 



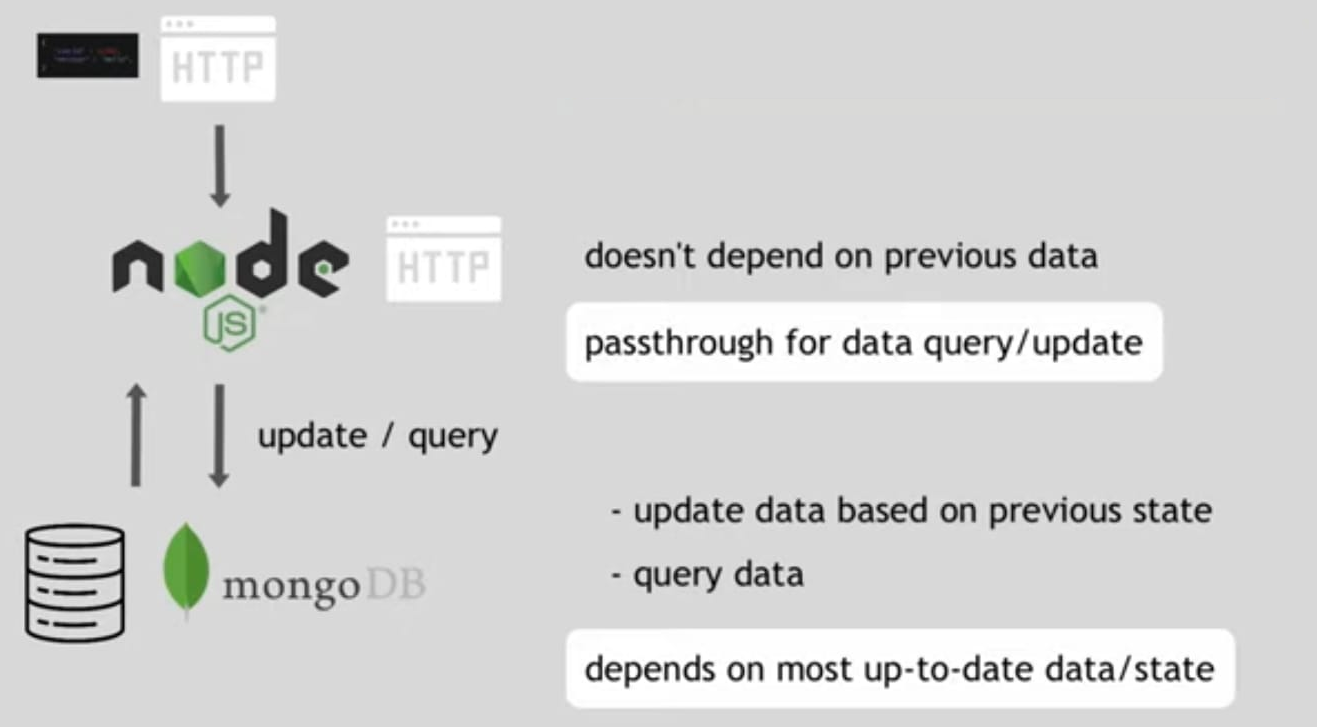


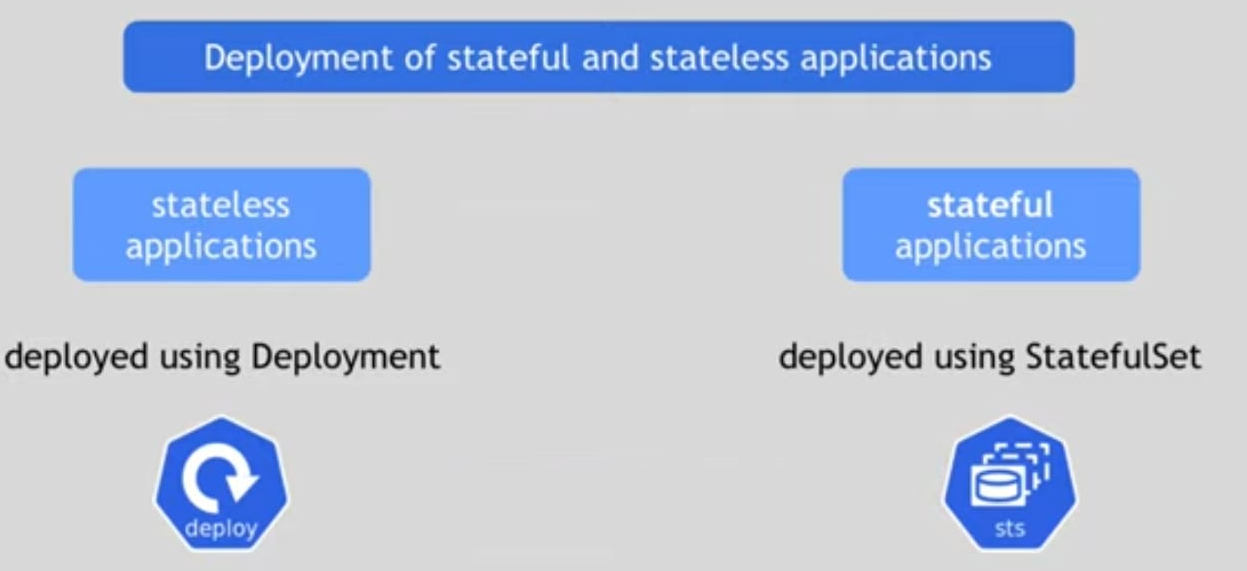


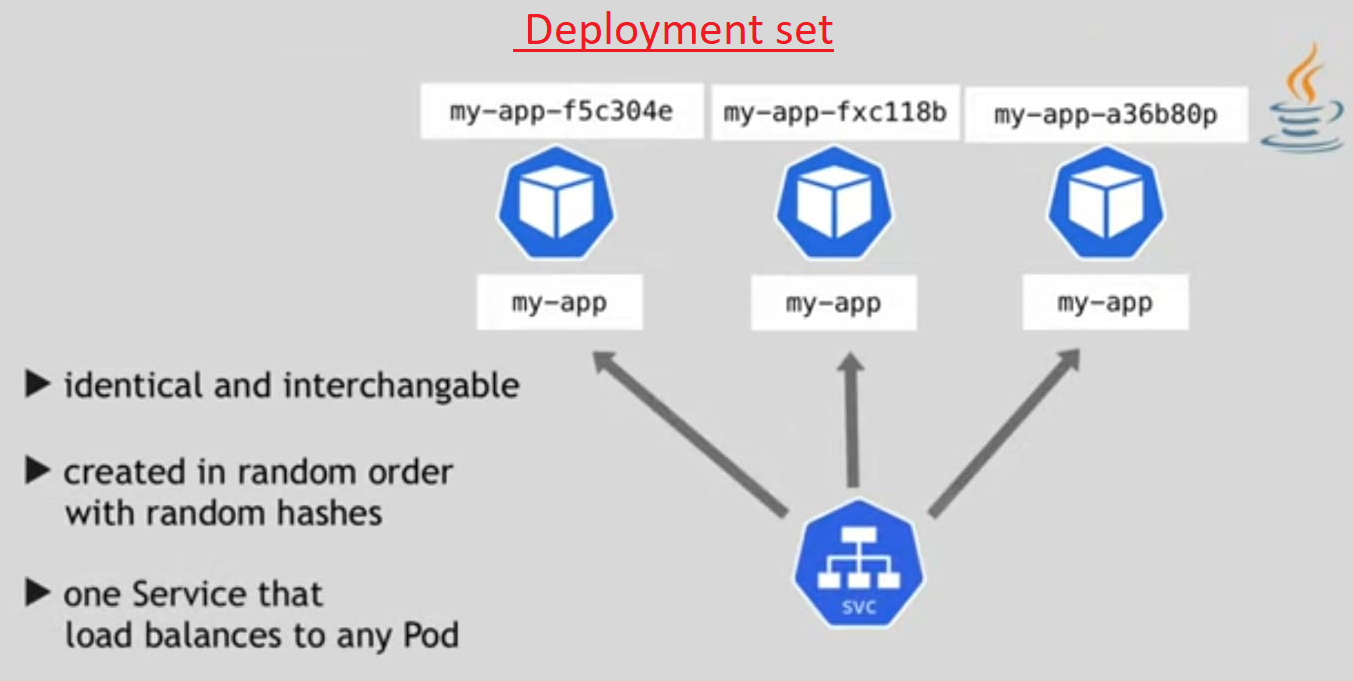


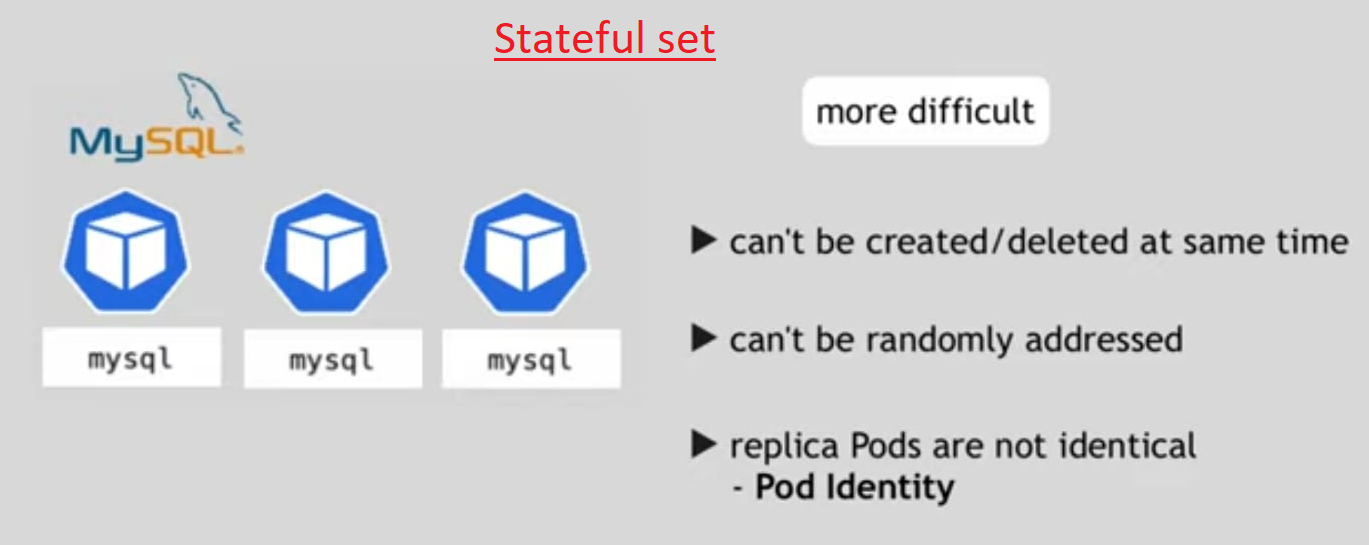


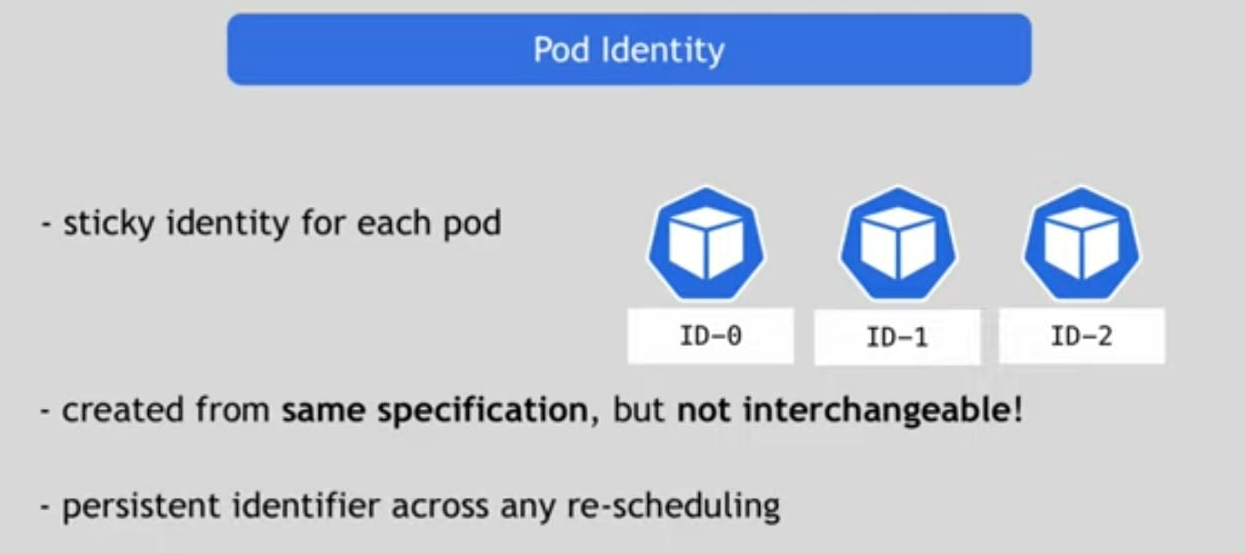


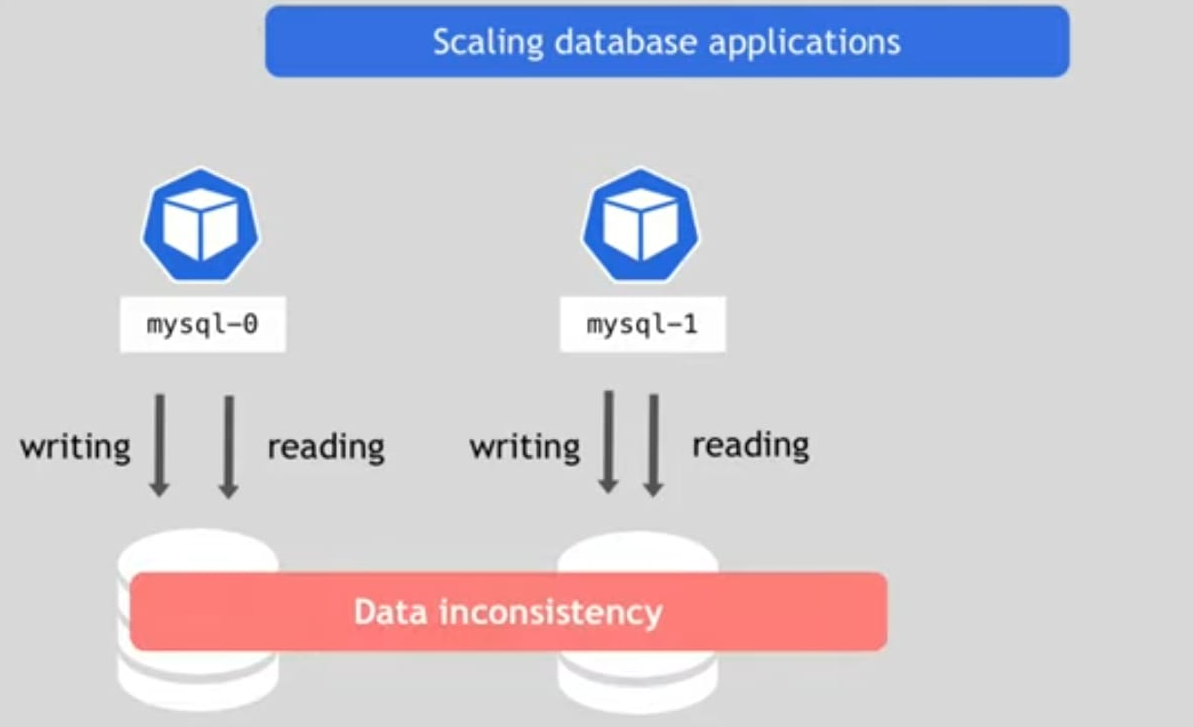


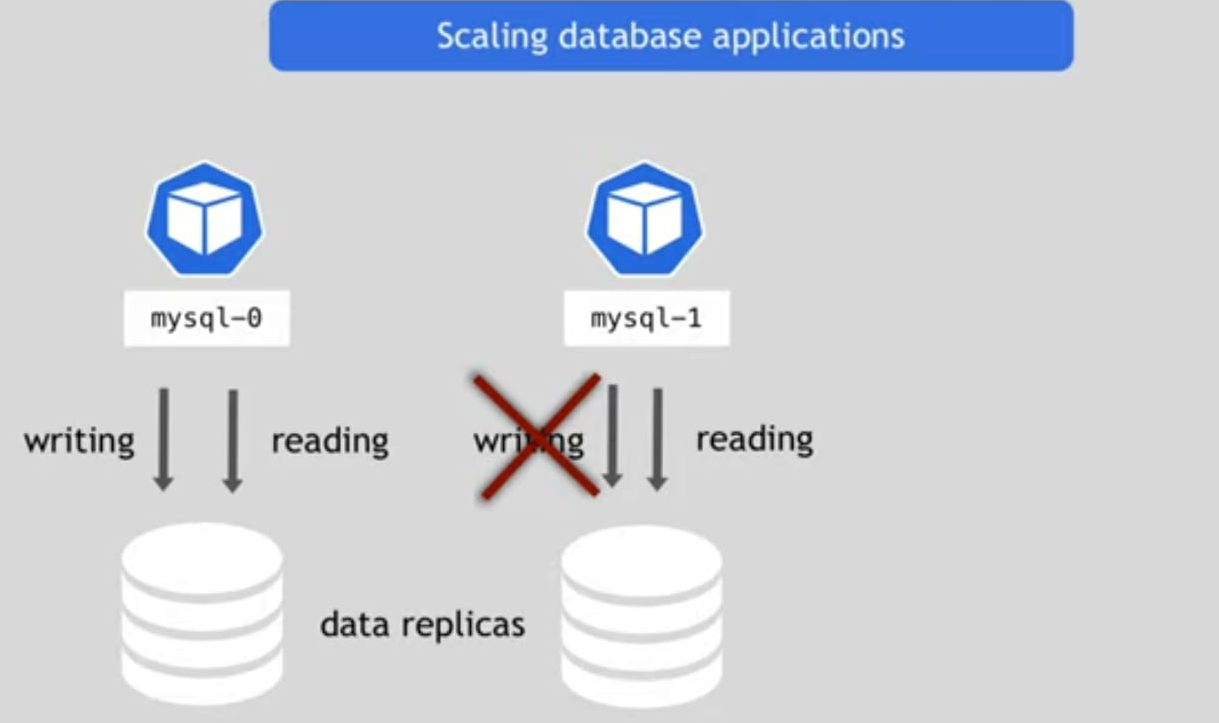


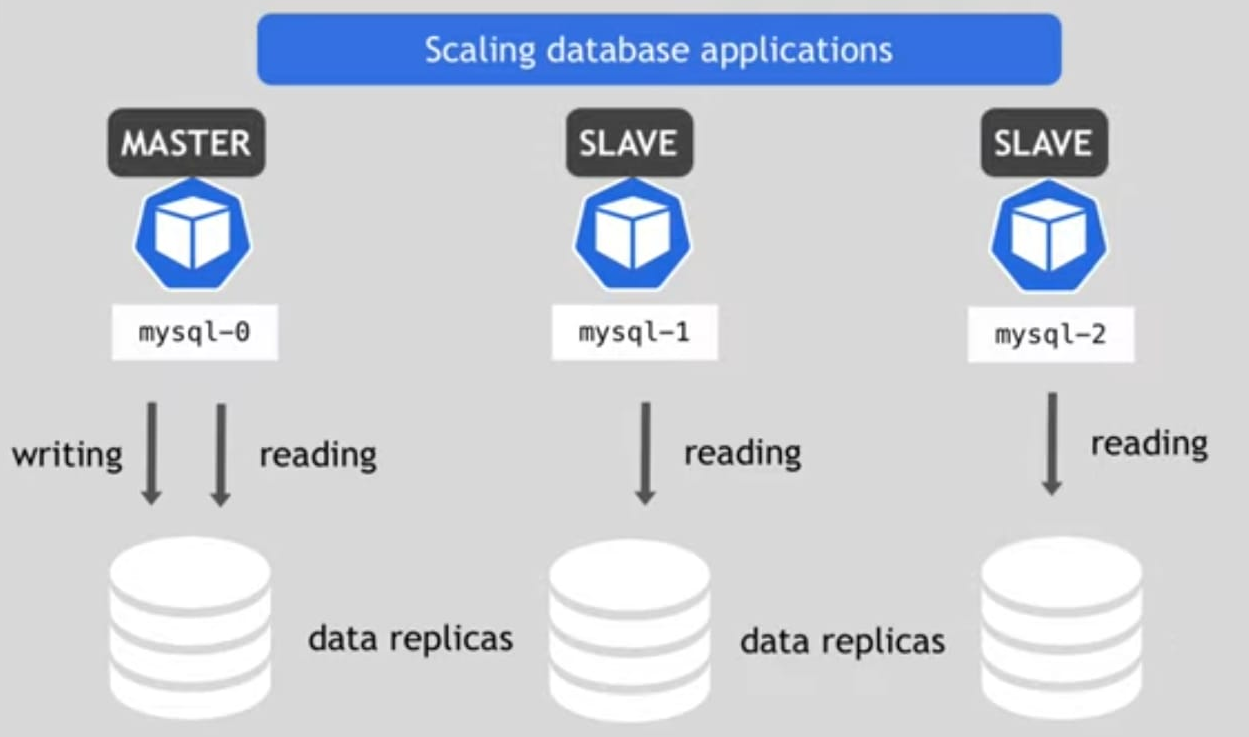


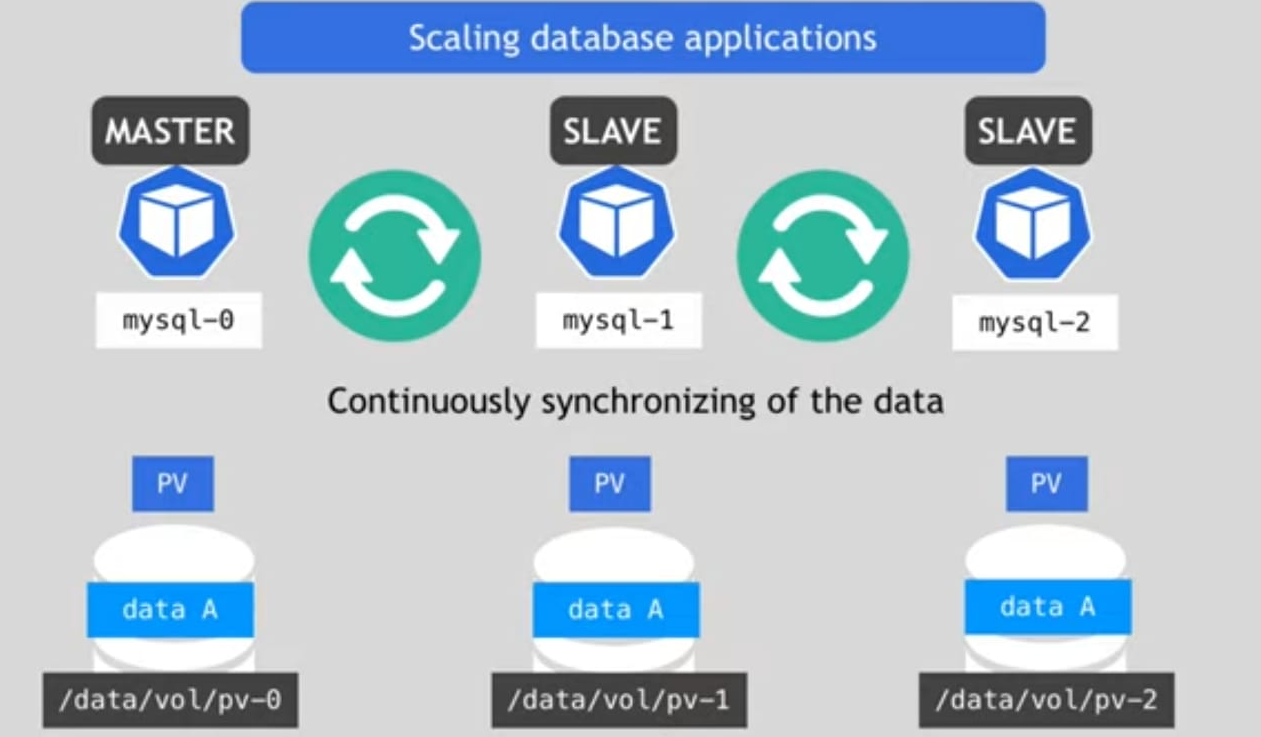


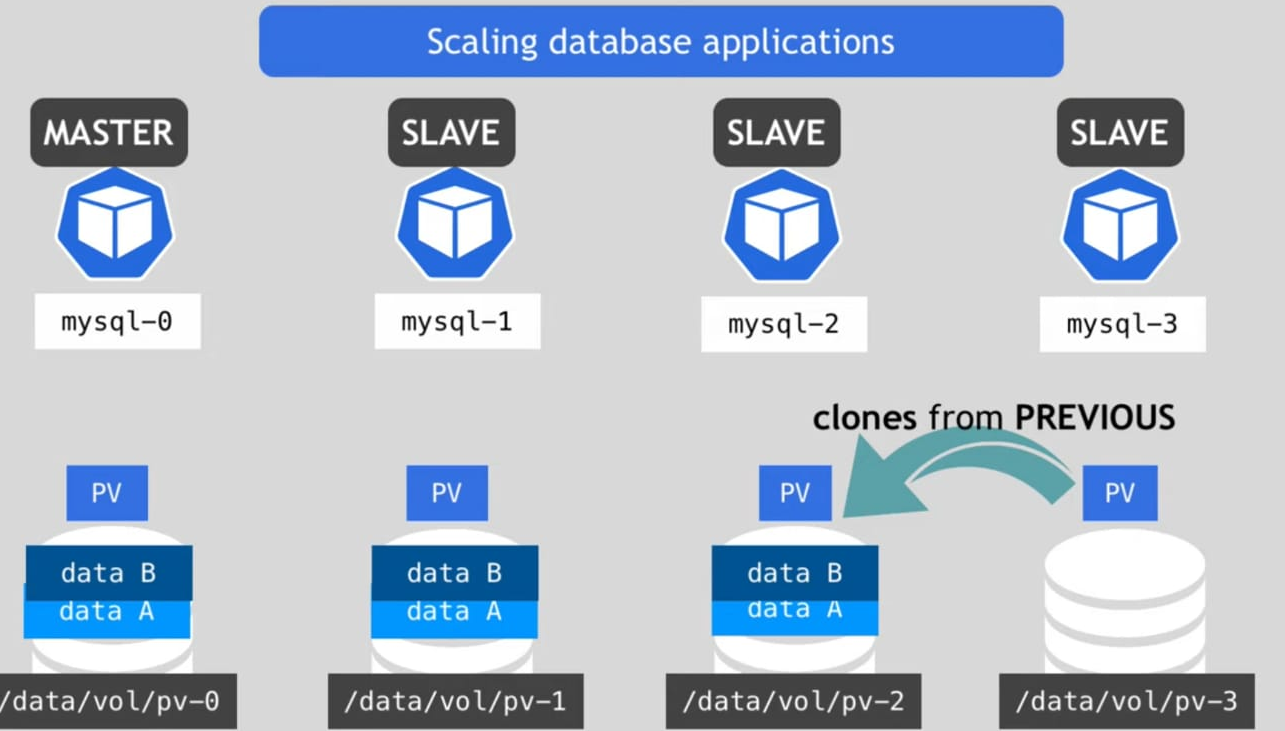












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