Moving from VMs to Pods

#vSphere #storage #scale #PKS

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One of challenges when designing and operate application is the data and scalability.

In this example, we will demonstrate how to leverage vSphere capabilities to move App from VMs to Pods without copy data and using k8s scalability.

This use case could be used to avoid copying large amount of data mitigating the risk of corruption and accelerating “containerization”.

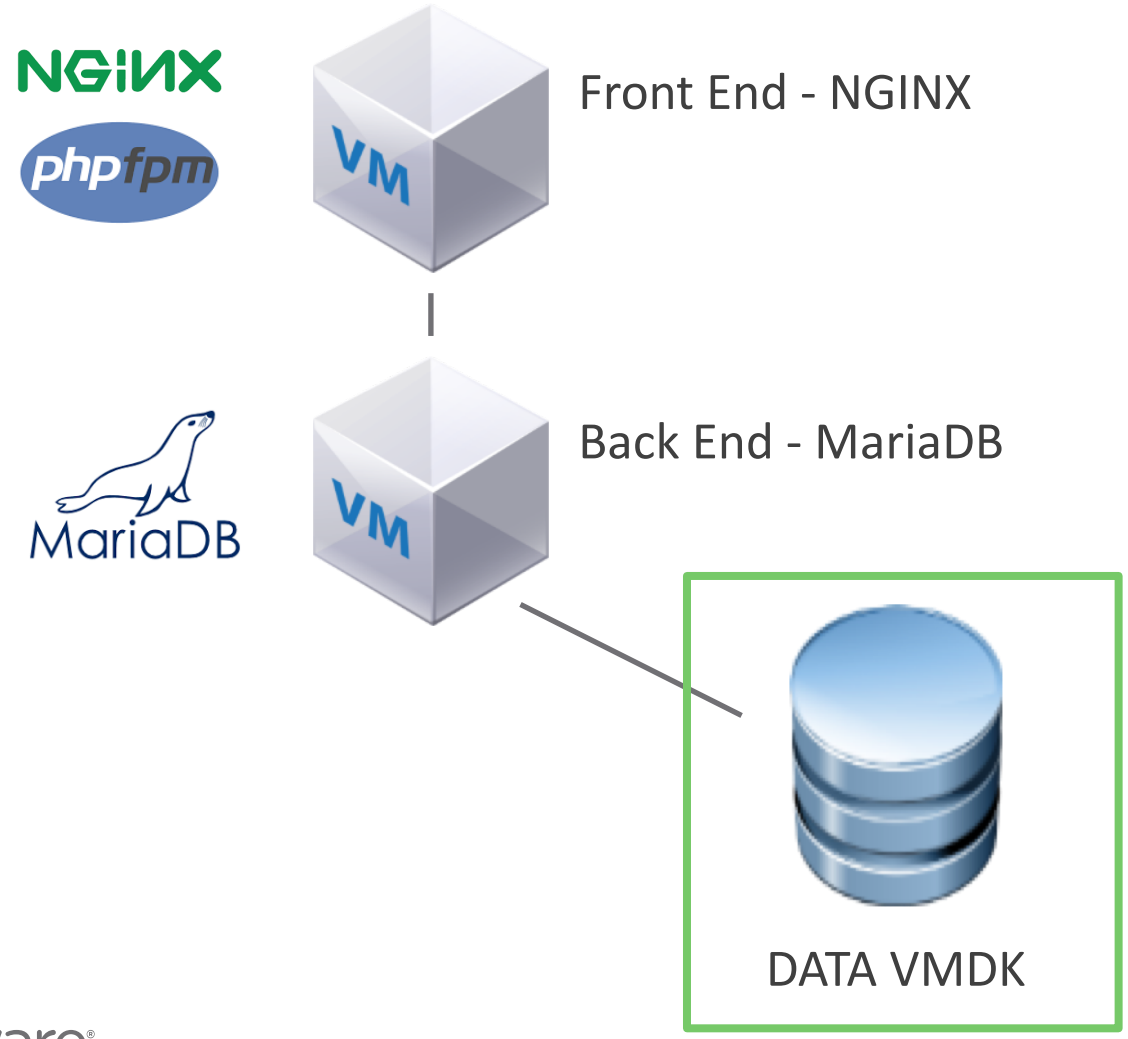
Big-Mountain Corp.

The Fictive Company

- Online electronic and spare parts vendor
- Double digit growth
- Competitor : Farnell, Conrad, Radiospare

A new project improving web app to serve more and more customers as fast as possible and reach revenue target.

The problem to solve

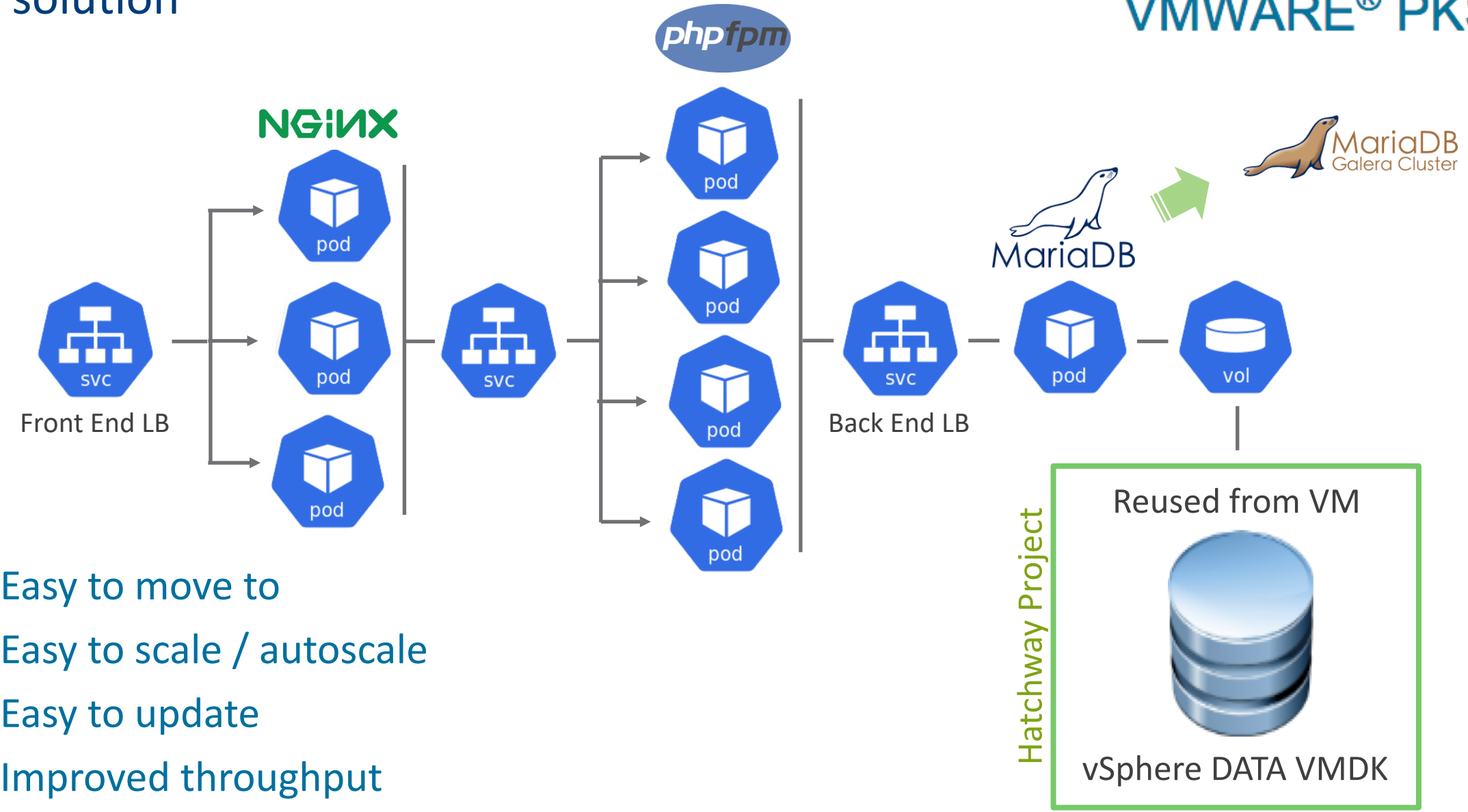


- Limited throughput
  - Does not scale easily
- Hard to update
  - Monolith components
  - Not transportable

- We want to keep these data
- Importing this into pod could be painful
- How to do that?

The solution

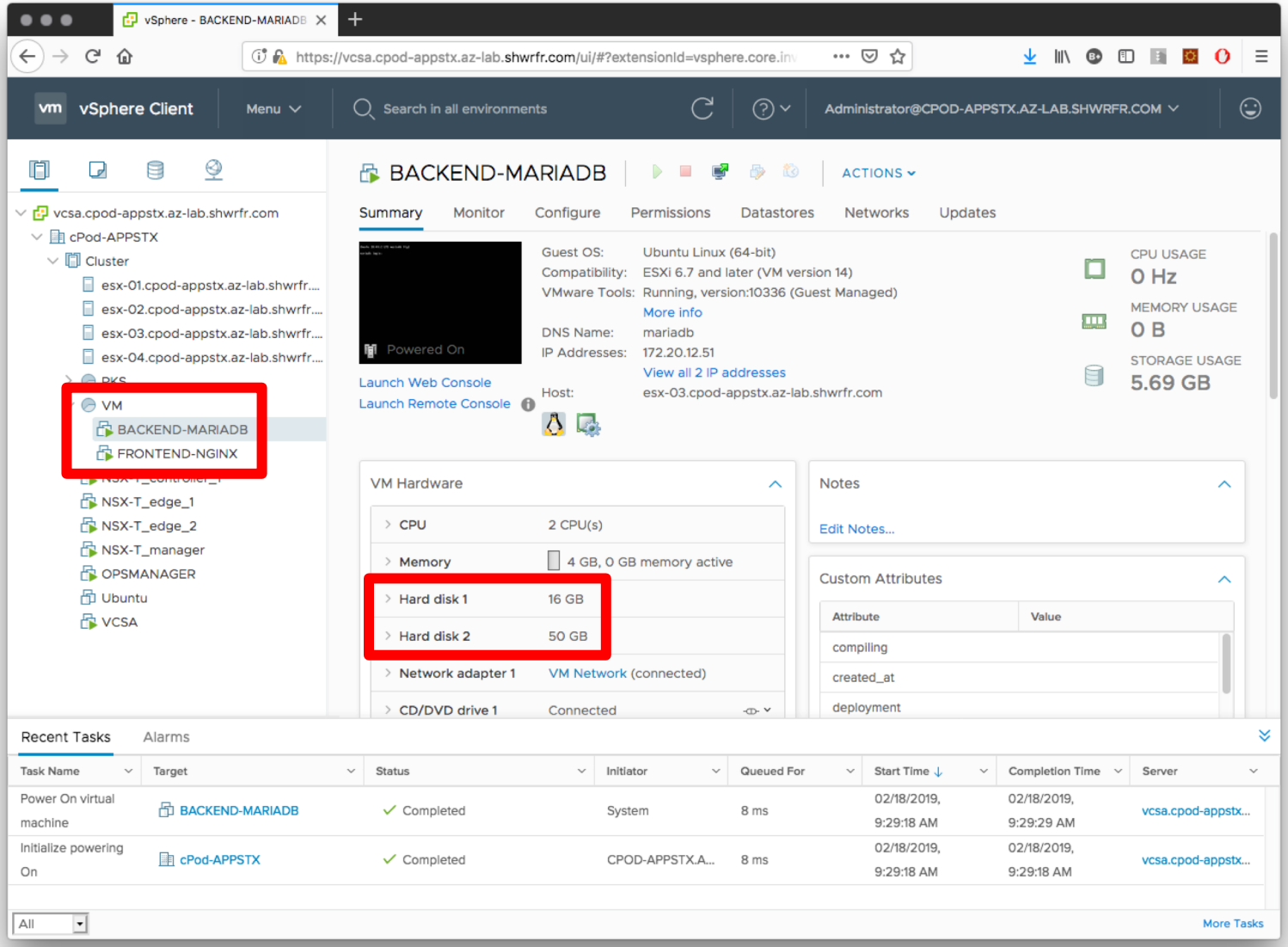
VMWARE® PKS



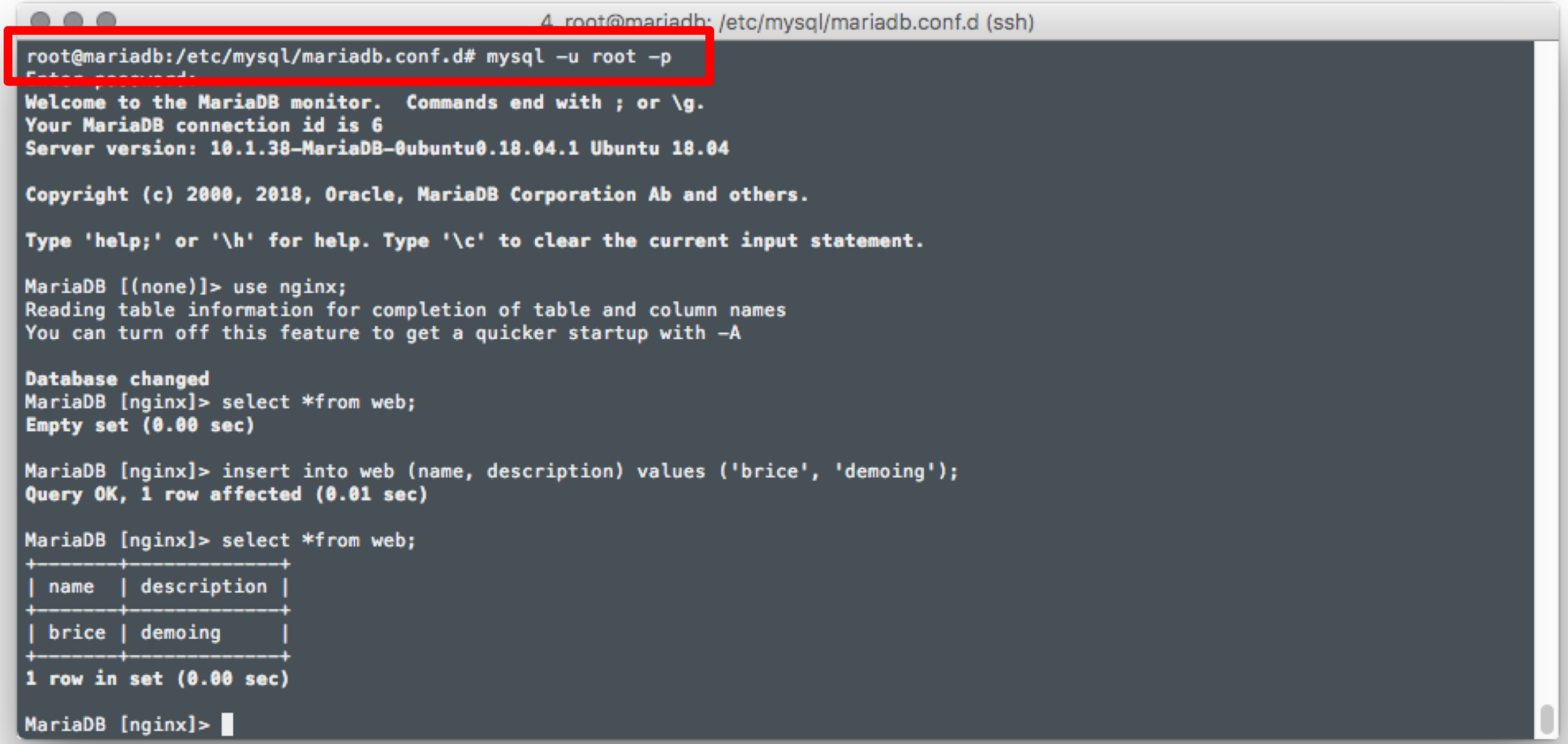
- Easy to move to
- Easy to scale / autoscale
- Easy to update
- Improved throughput

Demo

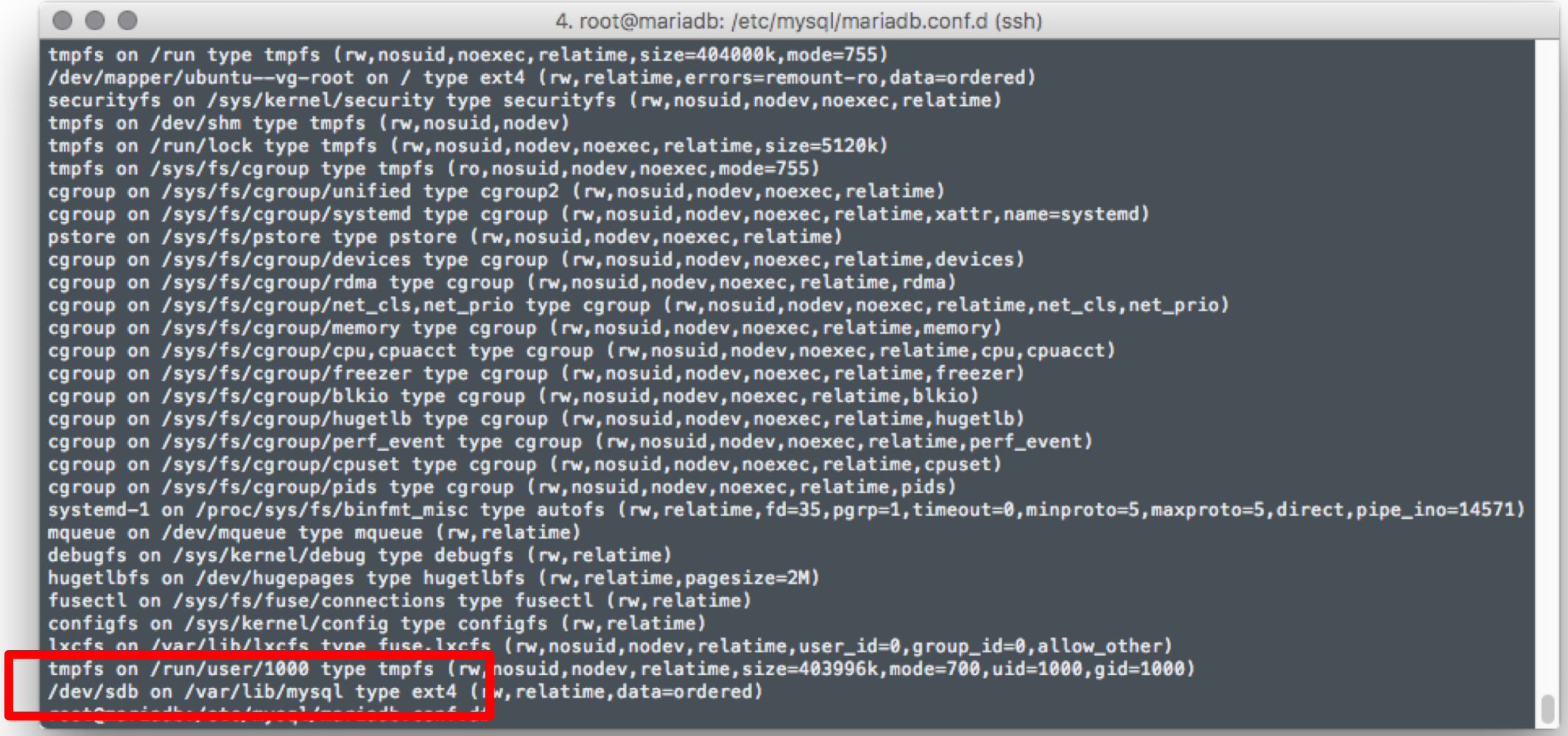
The App in VMs



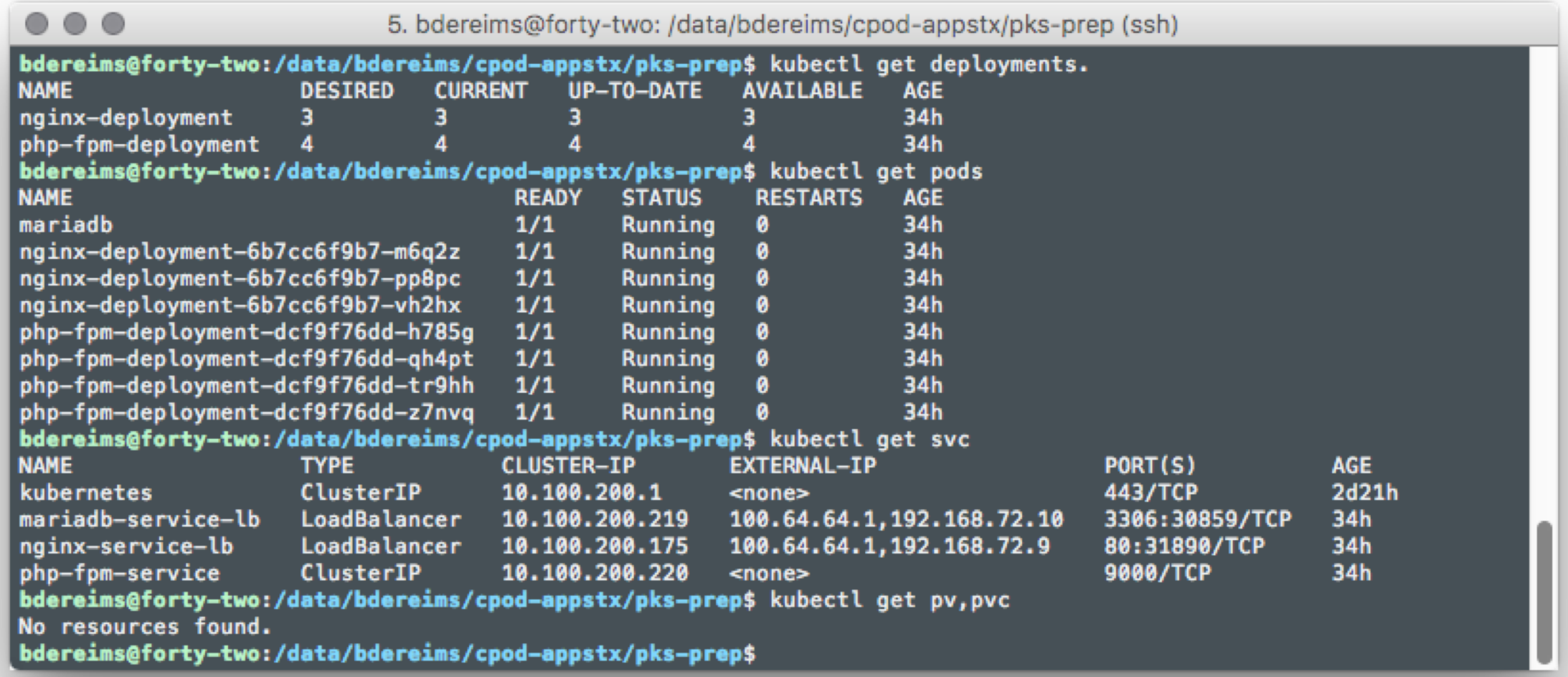
MariaDB at VM Side



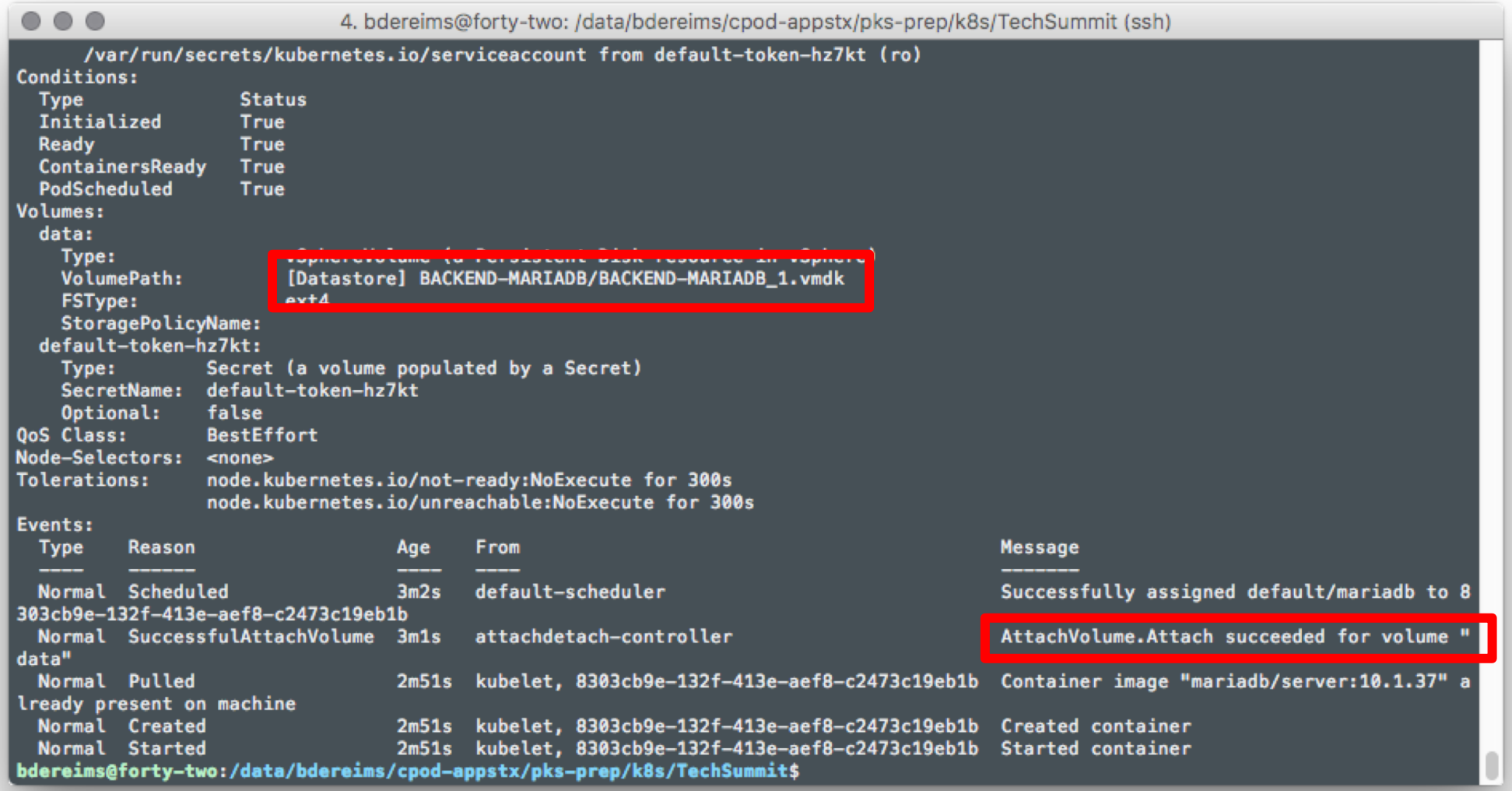
MariaDB at VM Side



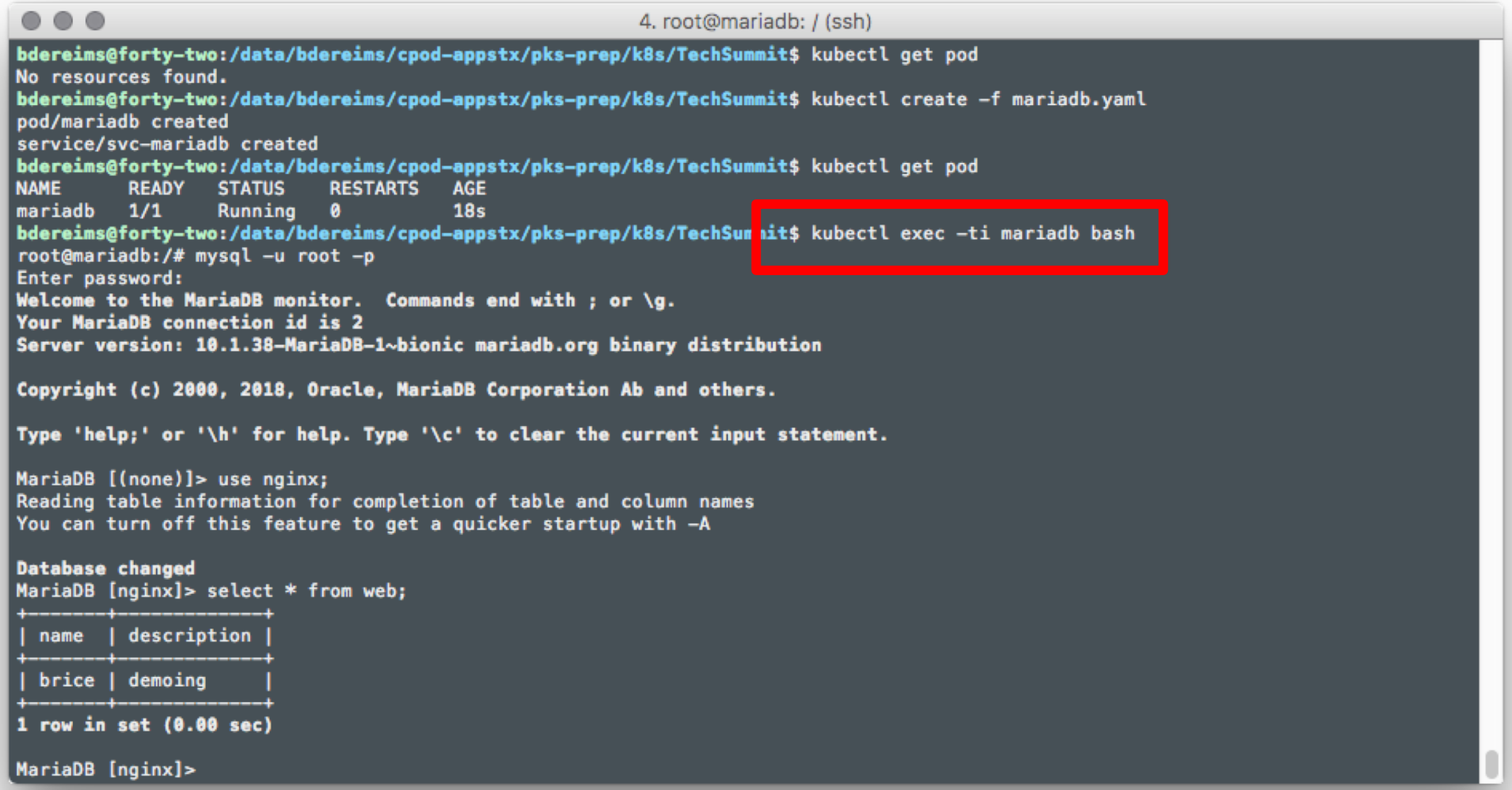
The App in Pods



MariaDB at Pod Side



MariaDB at Pod Side



Wrap-Up :

PKS on vSphere allow to reuse data avoiding to copy large amount of data.

Speedups container transition and leverage vSphere investments.