



StorageOS: a Software Defined Storage Solution for OpenShift

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Objectives

- Why is container storage so tricky?
- How does storage work with OpenShift?
- Demo

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- Cloud Native London



Why is container storage so tricky?

Why do I need storage?

Why do I need storage?



Challenges with container storage

1. No storage pets

Challenges with container storage

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2. Data needs to follow

Challenges with container storage

1. No storage pets
2. Data needs to follow
3. Humans are fallible

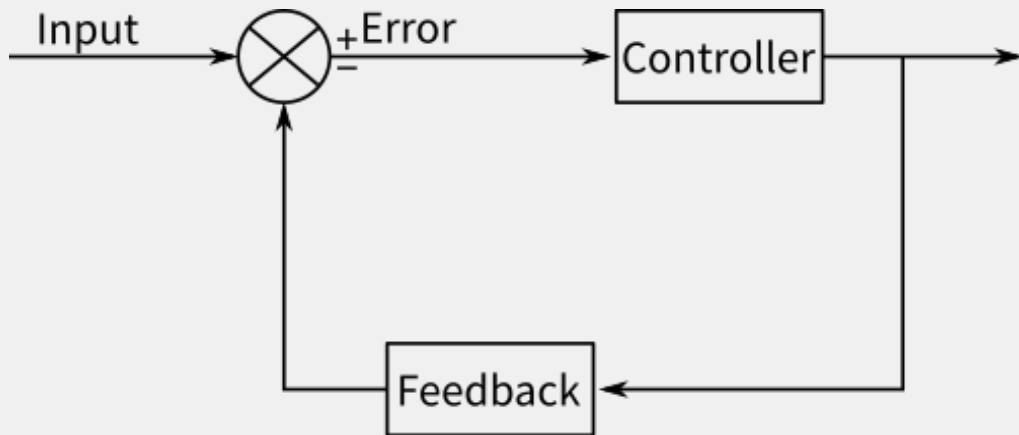
How does storage work with OpenShift?

Quick intro to Kubernetes & OpenShift

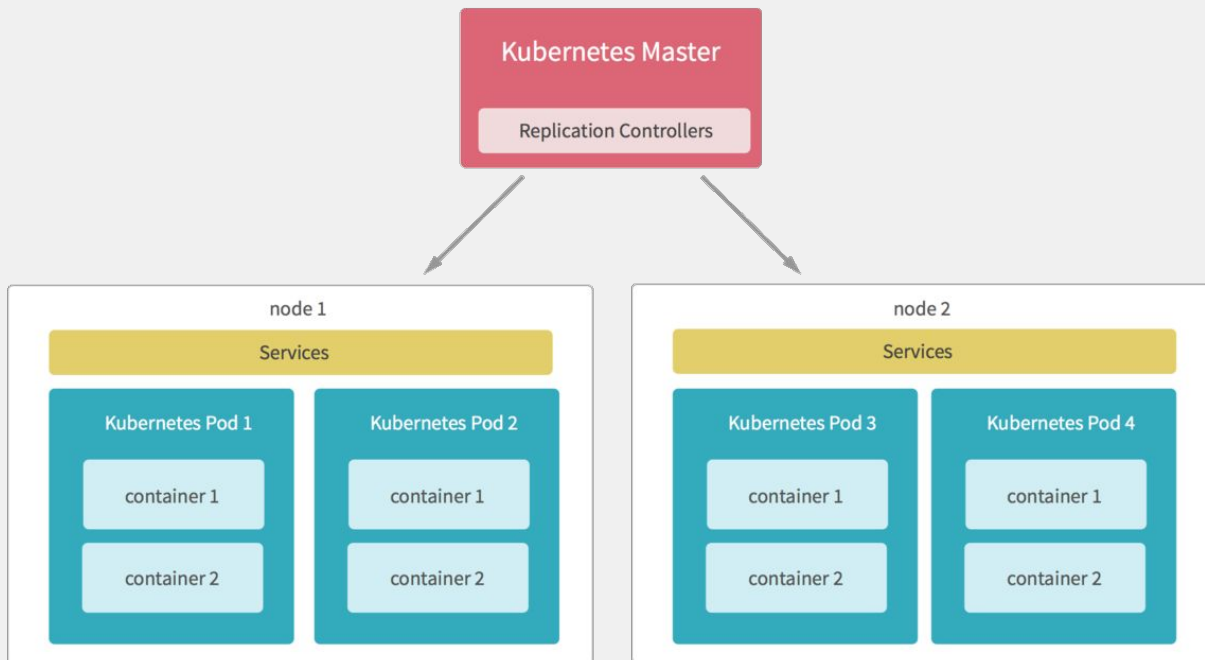
- An open source container orchestrator for running containers at scale, Google-style.
- One of the fastest moving projects in open source; the “Linux of the cloud”.
- OpenShift adds security, networking, authentication, build/test/deploy tools...

Quick intro to Kubernetes & OpenShift

“Always run my application (packaged as a pod/container) with four replicas”



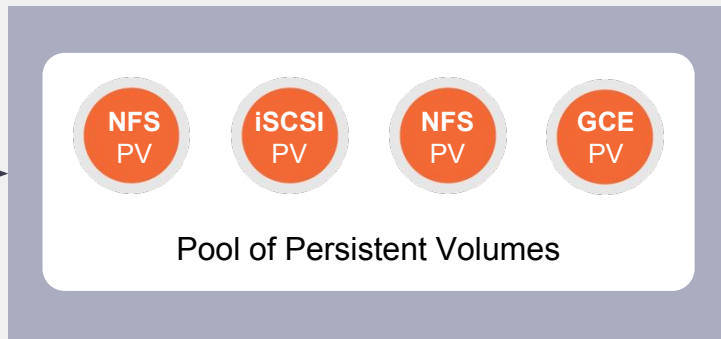
Quick intro to Kubernetes & OpenShift



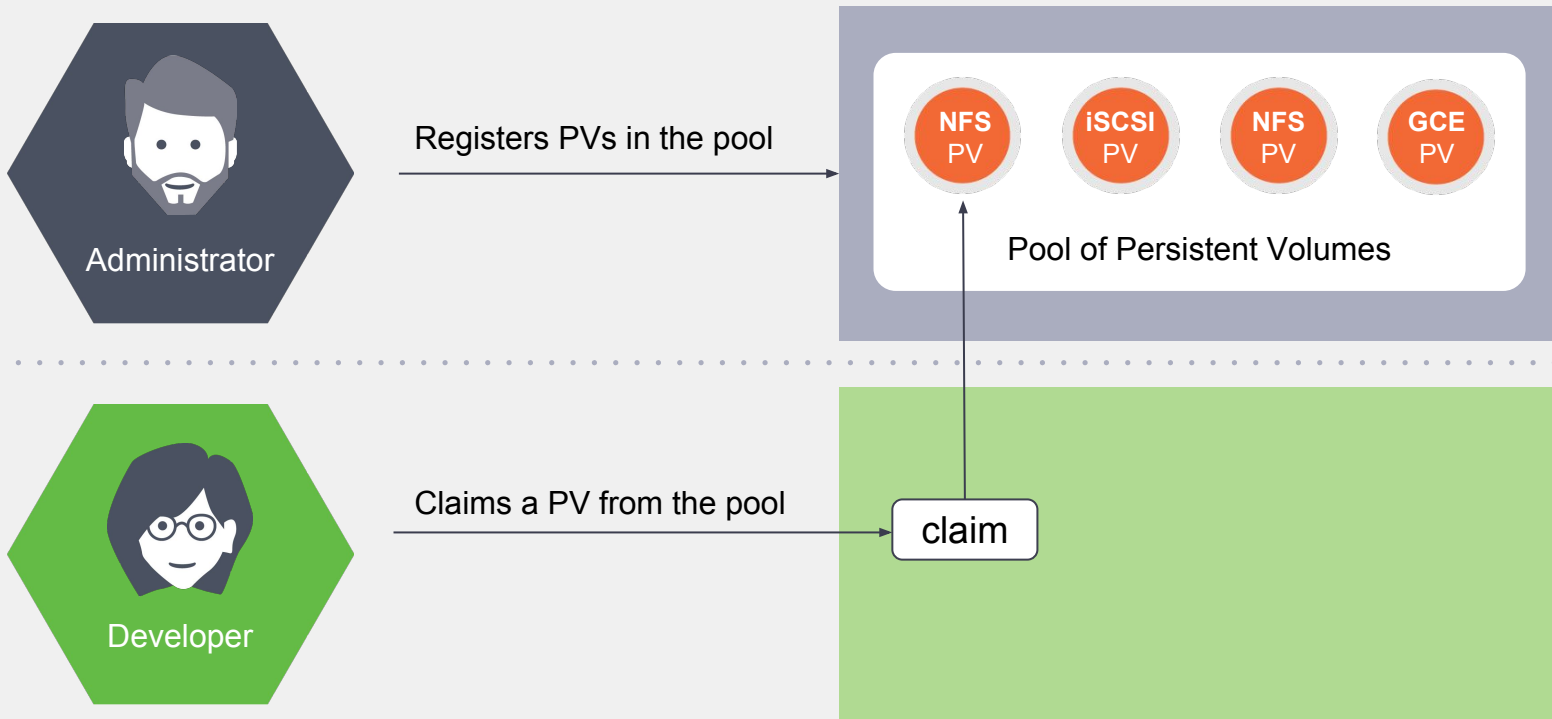
OpenShift Storage Model: PV and PVCs



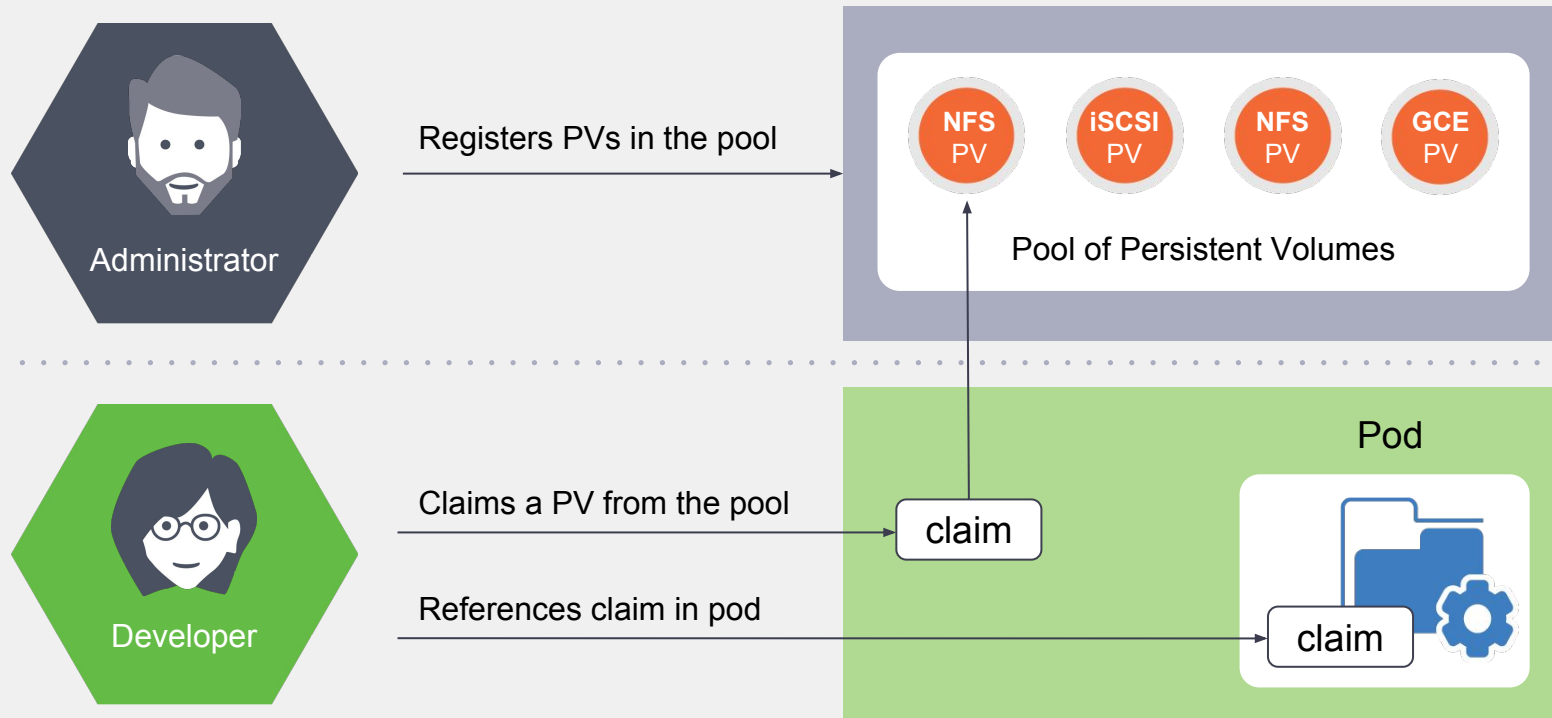
Registers PVs in the pool



OpenShift Storage Model: PV and PVCs



OpenShift Storage Model: PV and PVCs



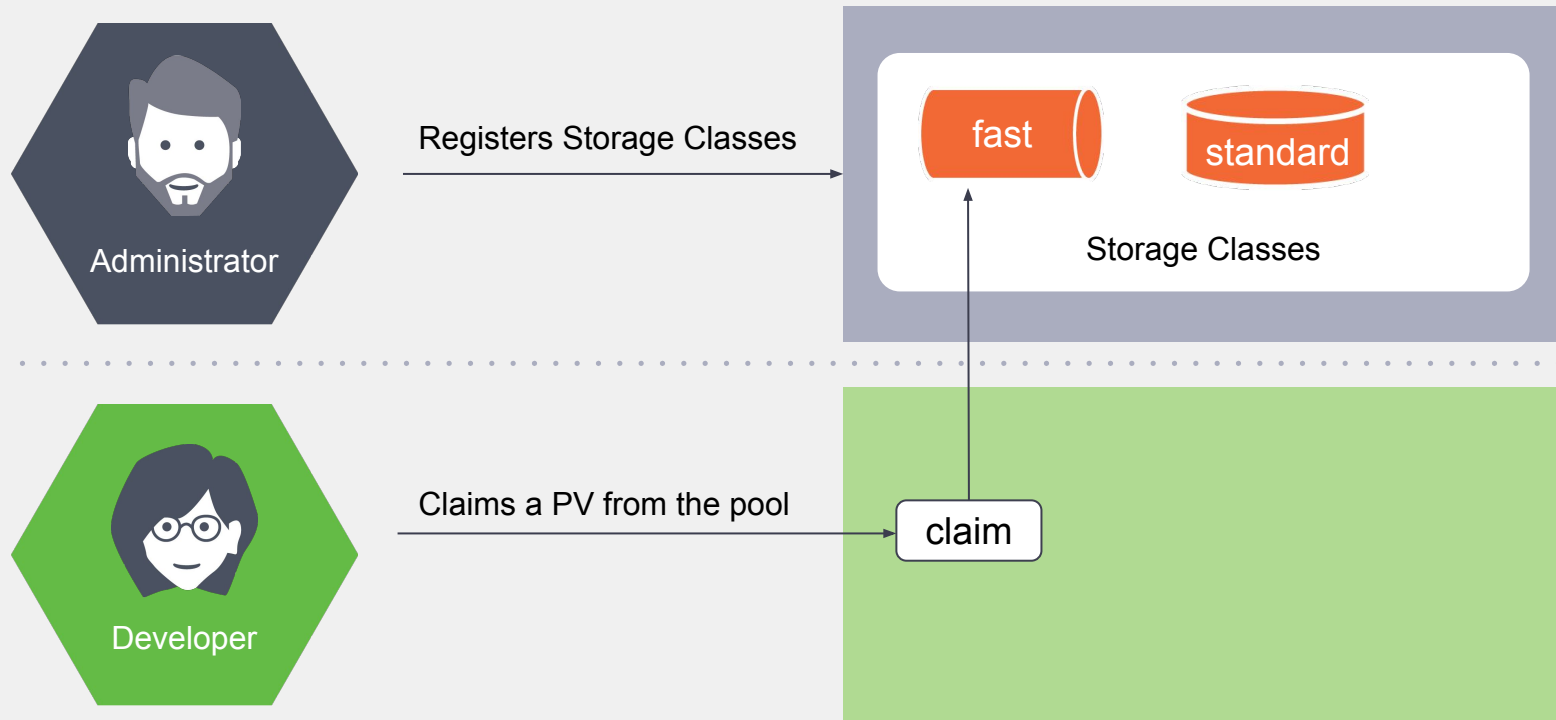
Dynamic provisioning with storage classes



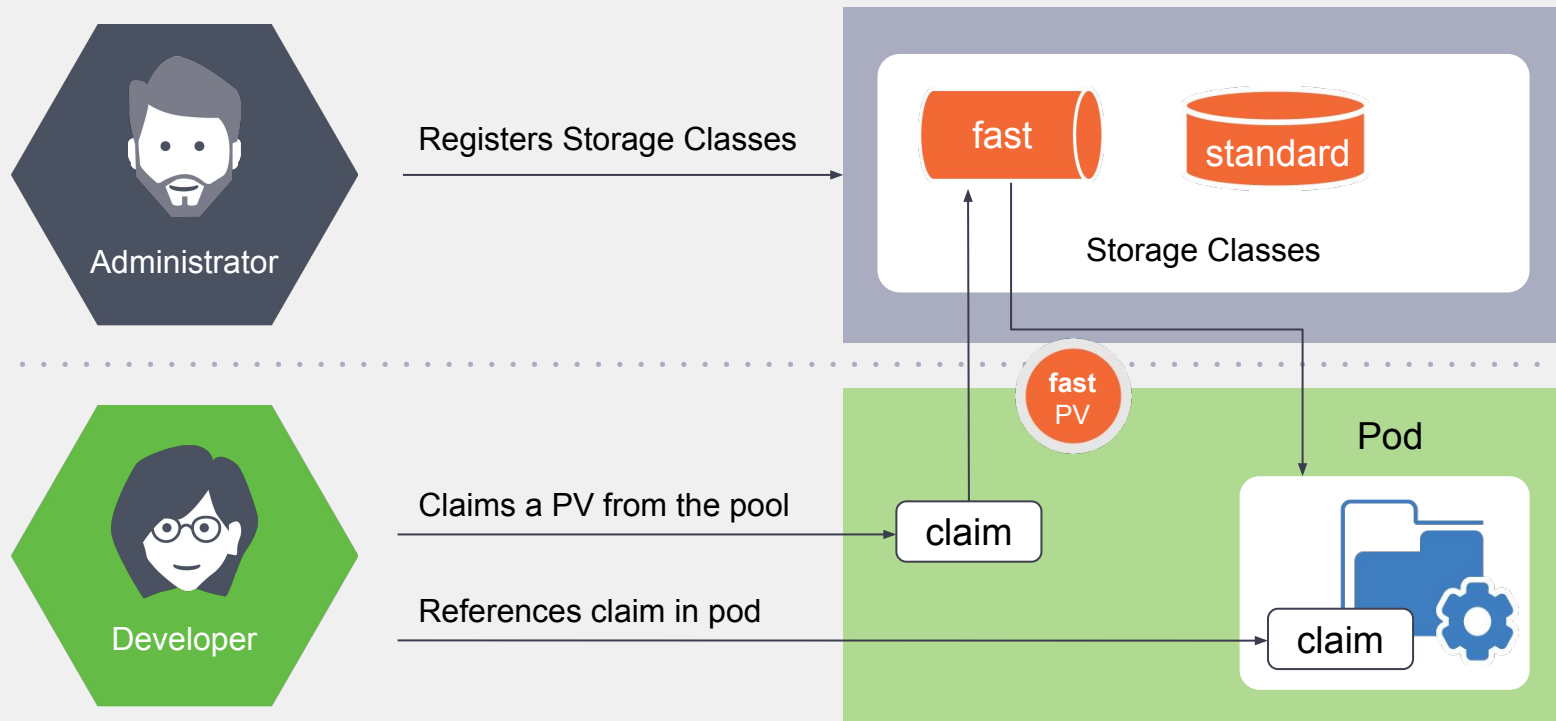
Registers Storage Classes



Dynamic provisioning with storage classes



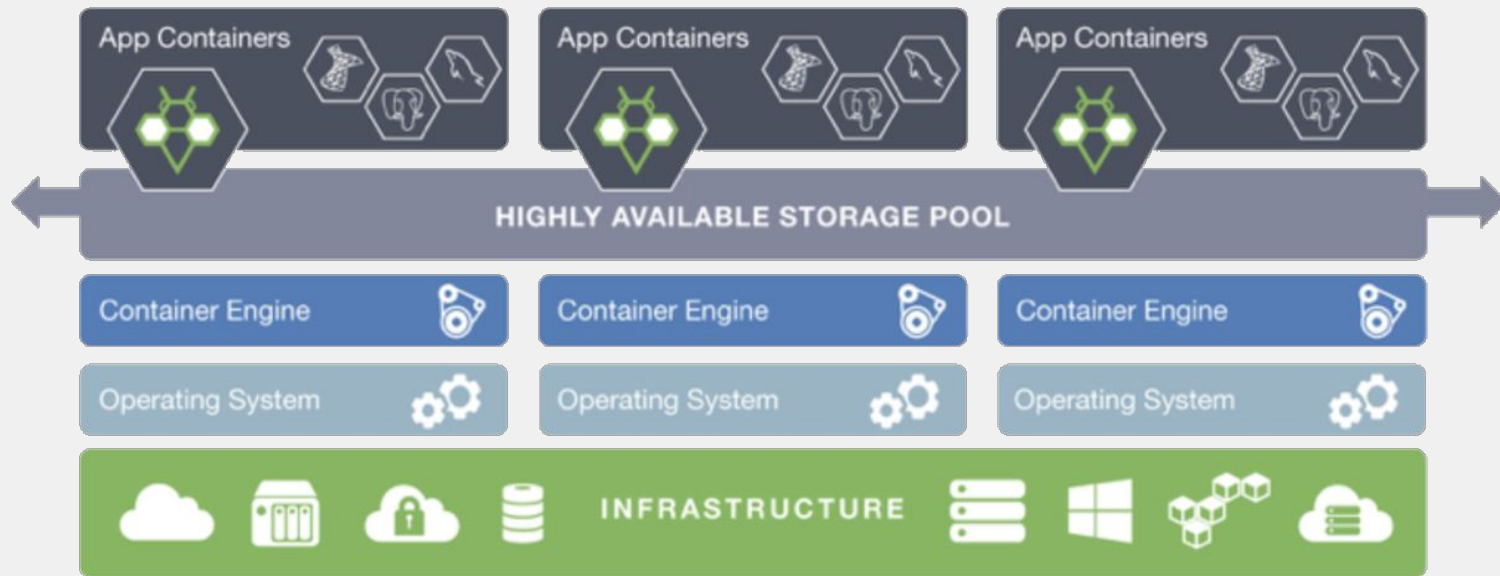
Dynamic provisioning with storage classes



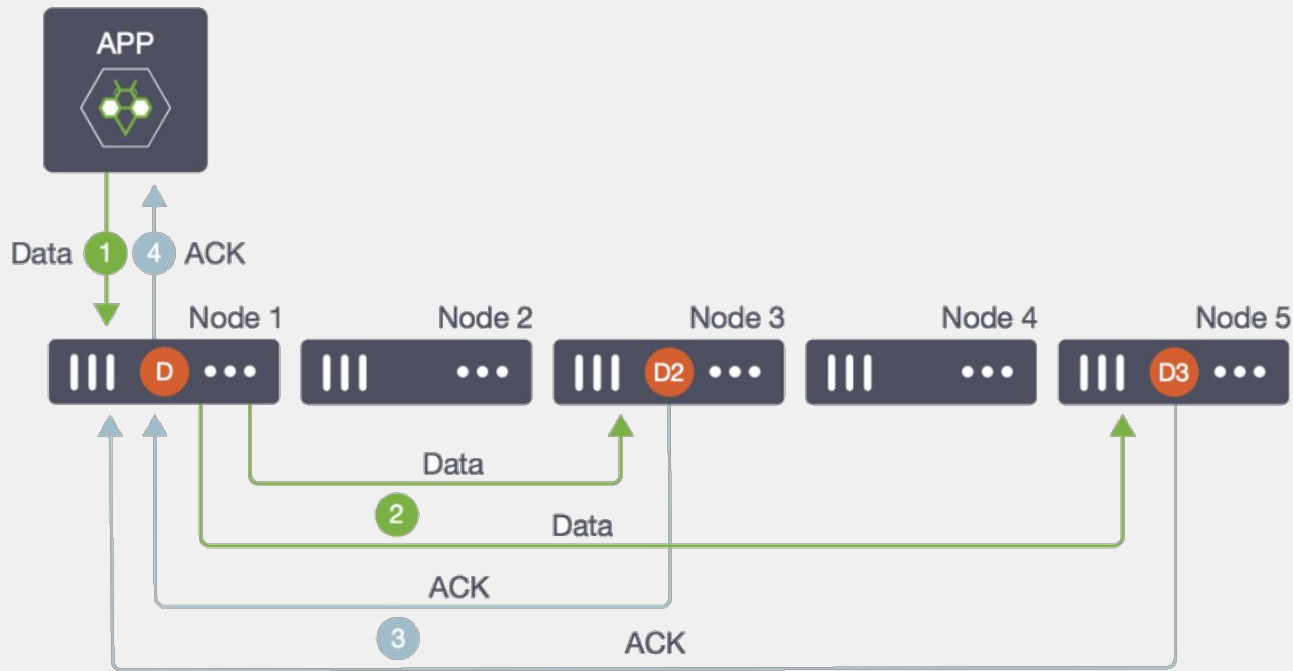
Demo

StorageOS

A software defined, scale out storage platform for running enterprise containerized applications in production



High availability with StorageOS





Thank you

Slides at oicheryl.com

