



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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- Product at StorageOS
- CNCF ambassador
- Cloud Native London



Why is container storage so tricky?

Why do I need storage?

Why do I need storage?



First challenge: No storage pets



Second challenge: Data needs to follow



Third challenge: Humans are fallible



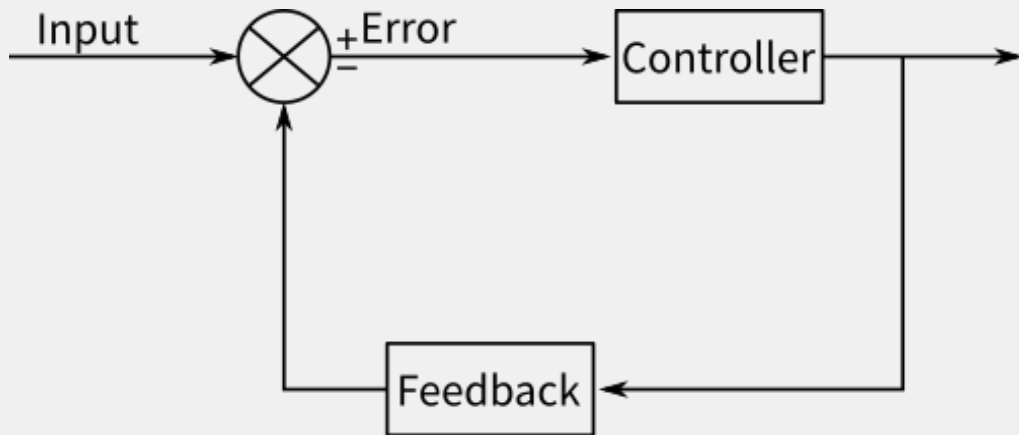
How does storage work with OpenShift?

Quick intro to Kubernetes & OpenShift

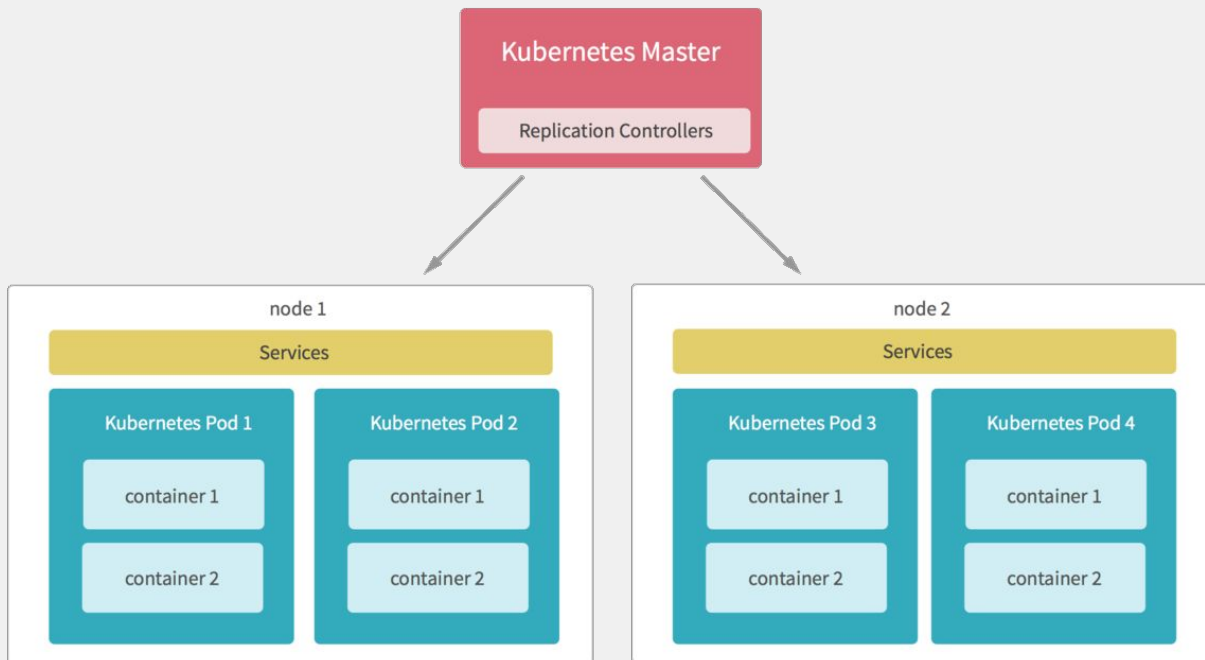
- An open source container orchestrator for running containers at scale, Google-style.
- One of the fastest moving projects in open source; the “Linux of the cloud”.
- OpenShift adds security, networking, authentication, build/test/deploy tools...

Quick intro to Kubernetes & OpenShift

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



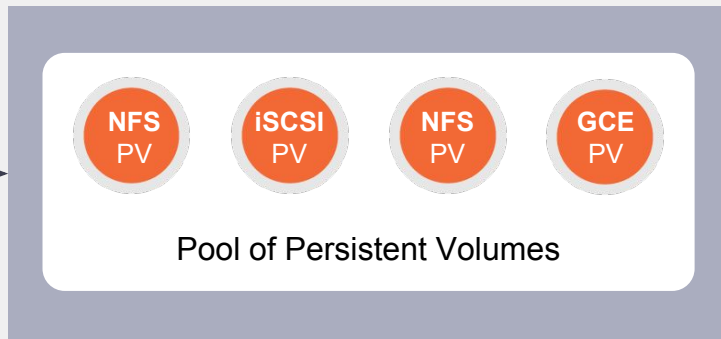
Quick intro to Kubernetes & OpenShift



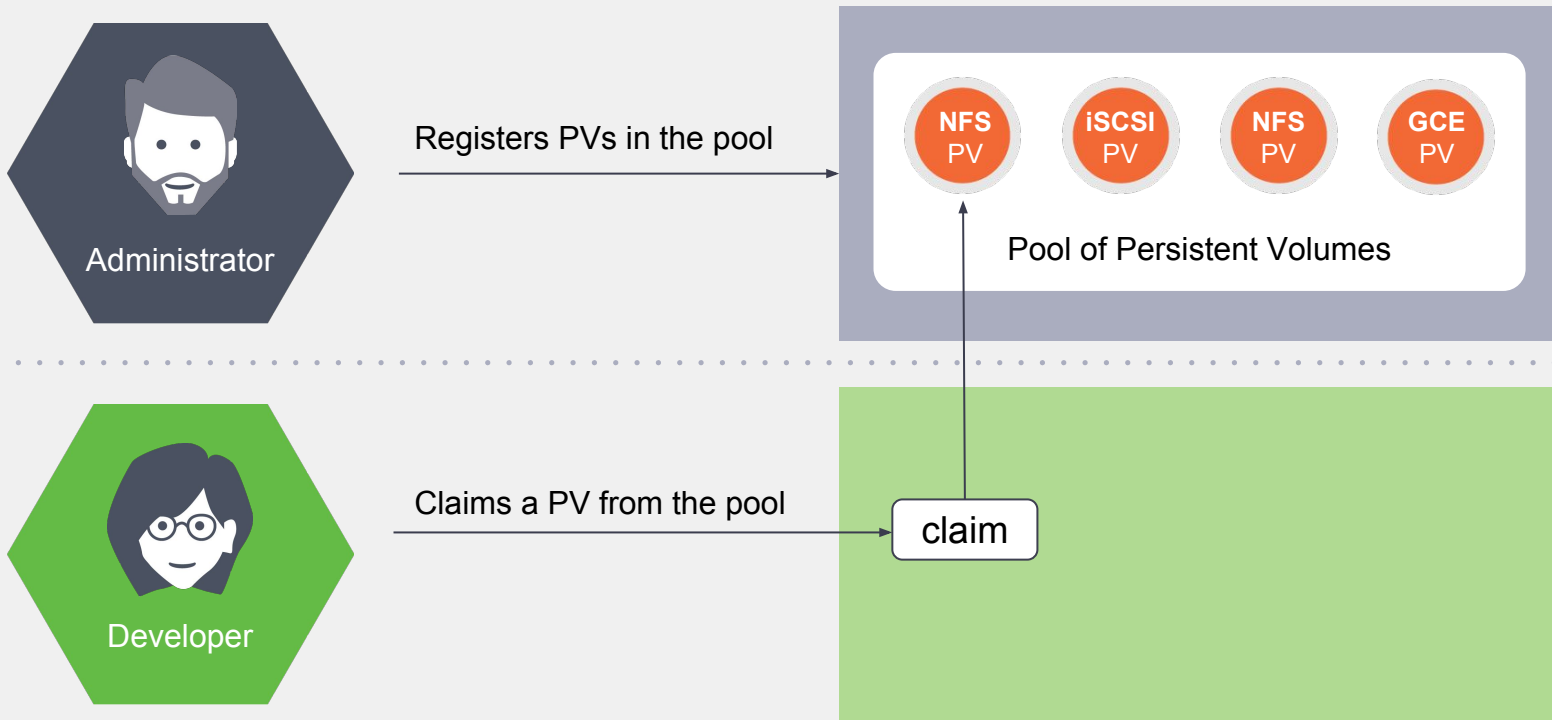
OpenShift Storage Model: PV and PVCs



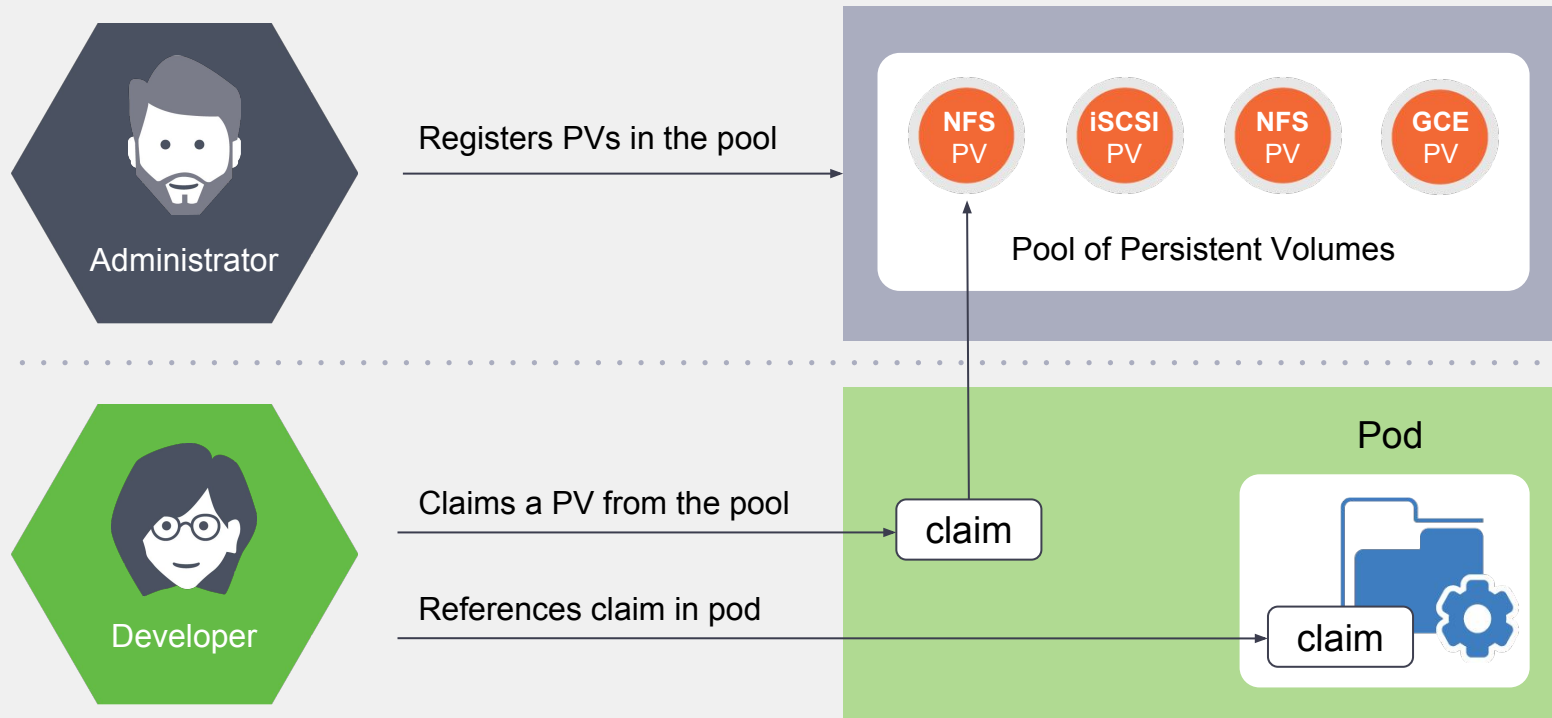
Registers PVs in the pool



OpenShift Storage Model: PV and PVCs



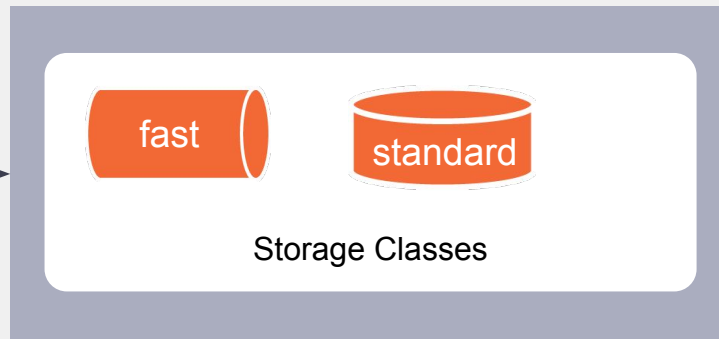
OpenShift Storage Model: PV and PVCs



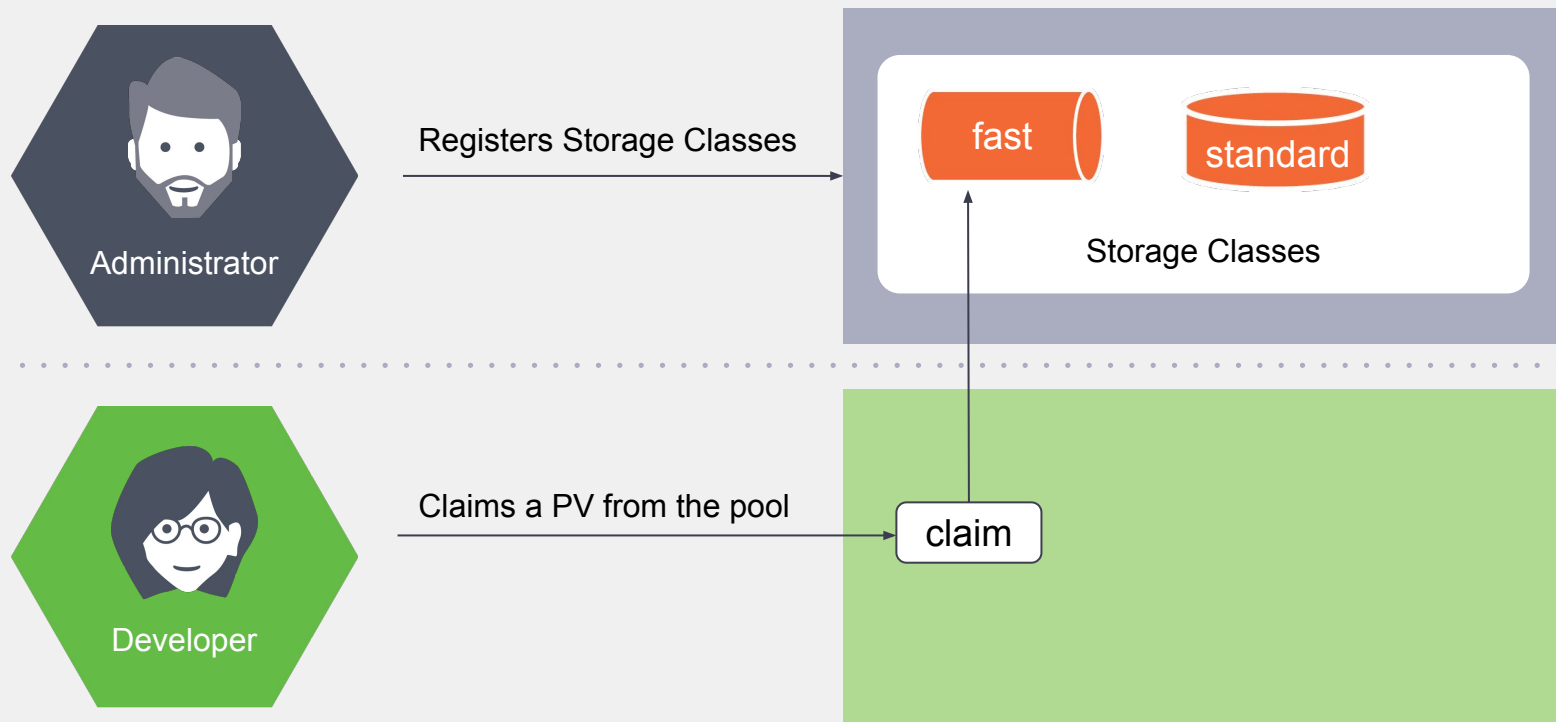
Dynamic provisioning with storage classes



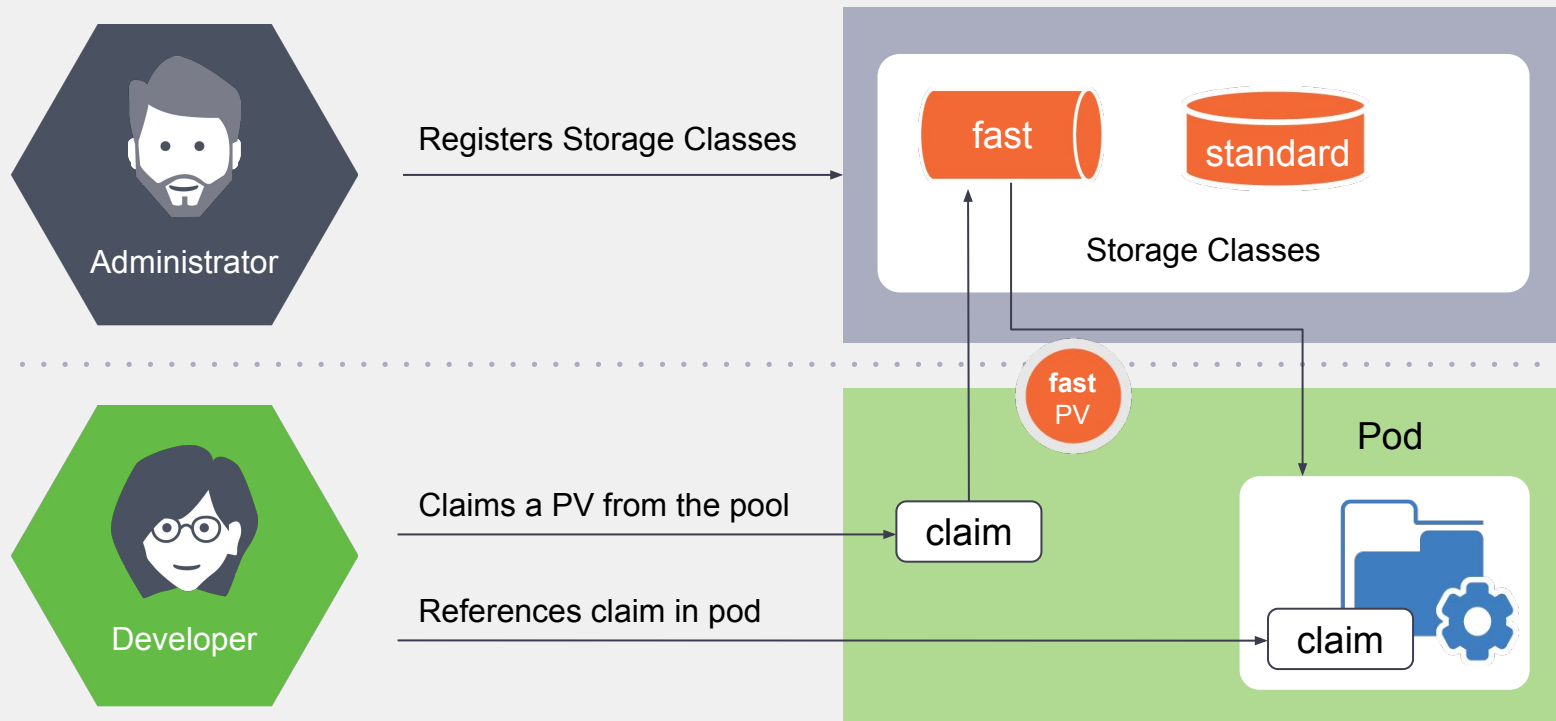
Registers Storage Classes



Dynamic provisioning with storage classes



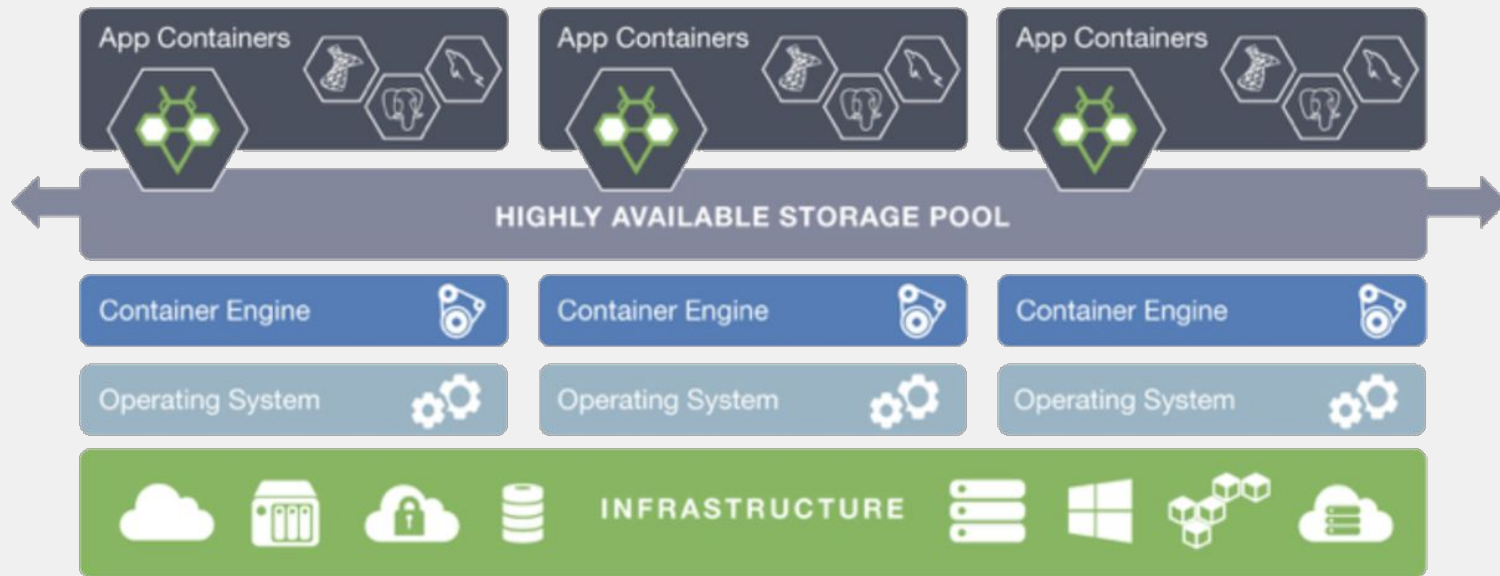
Dynamic provisioning with storage classes



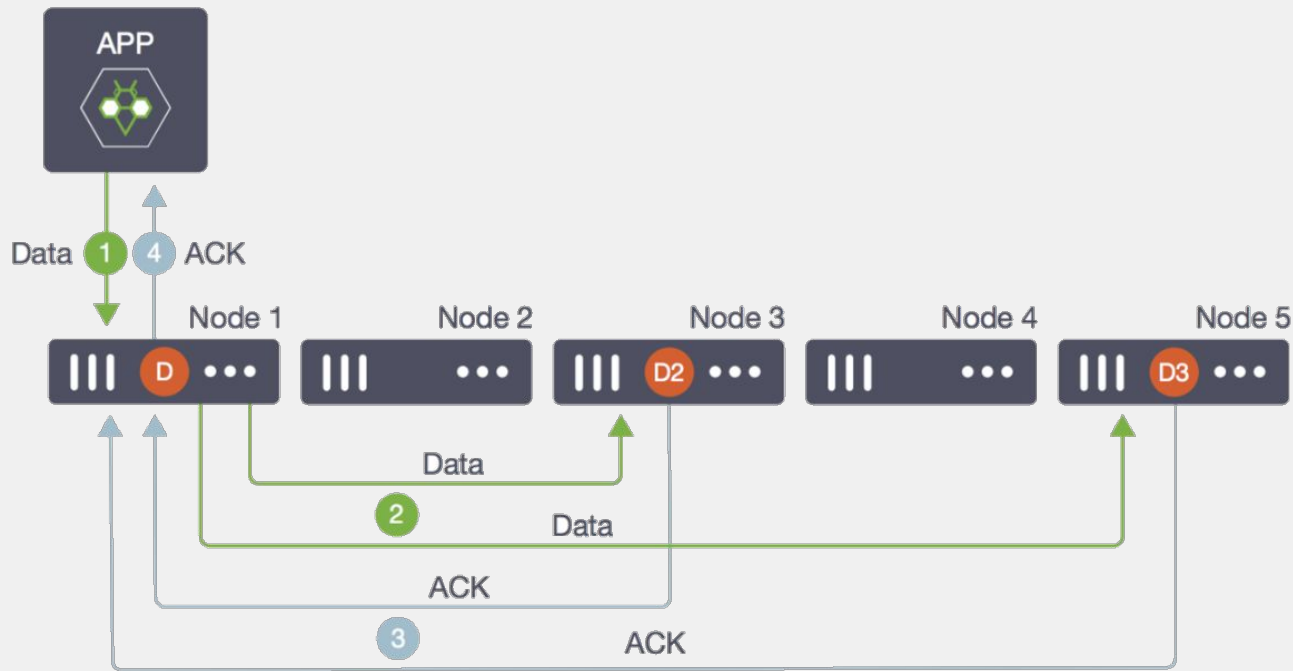
Demo

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

