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Storage management is more than CSI driver

How to solve issues with PV's

Yusuf YILDIZ
yusuf.yildiz@linbit.com

soda foundation

#sodacon2021

Who we are

Linux Open Source Block Storage Pioneer

IOPS world record

Official Coding in
Linux Kernel since 2009

20 years block
storage experience

Leader in HA, DR,
Software Defined Storage

What are the issues?

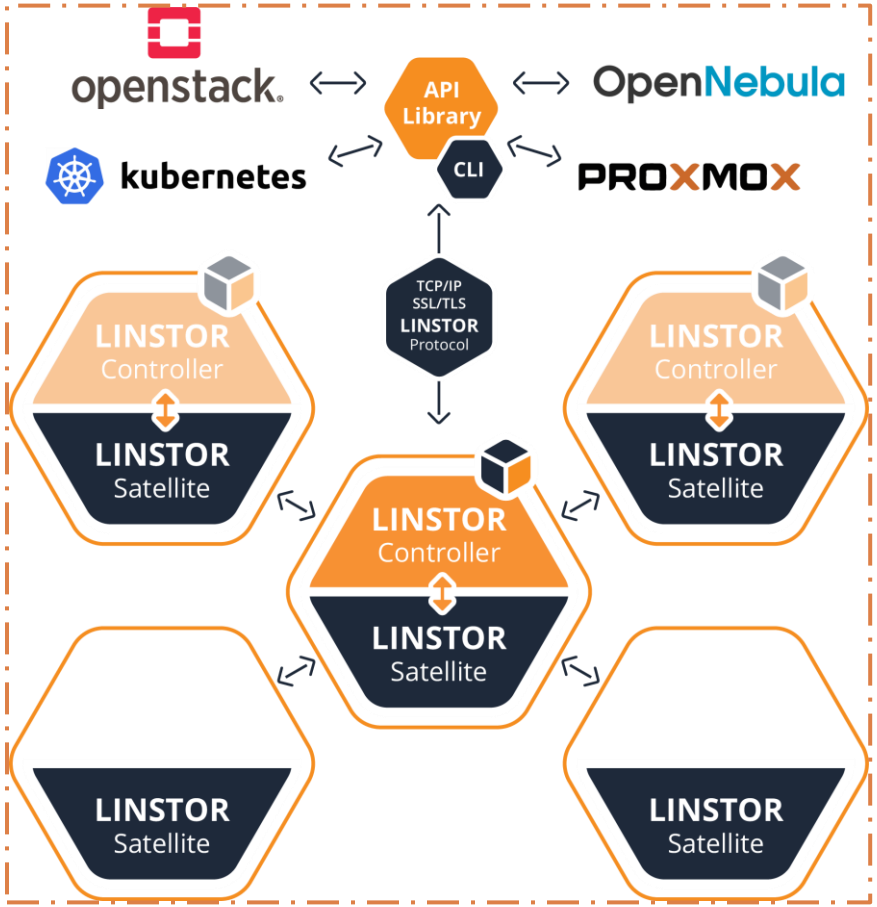
Common Interface	Install, Implement Issues	Data Locality	Long Failovers	Deployment Serialization	Management Issues
CSI DRIVER	LINSTOR OPERATOR	STORK	LINSTOR HA	YAML	KUBECTL PLUGIN

How Does it Work?

In Kernel data-path
- Reduce number of context switches
- Saving on CPU/memory resources
- Minimal latency for block-IO operations
- Optional load-balancing for READs

Build on existing components
- DRBD, LVM, ZFS, LUKS, VDO, ...
- Help day2 operations by leveraging on the opera tion teams prior knowledge
- Build on the shoulders of giants

Hyper-Converged
Very well suitable for hyper-converged deployment
- Reduced network load for reads
- Reduces latency
- LINBIT SDS' Low resource consumption leaves most of CPU and memory for workload. About 0.5% of a single core are consumed by DRBD under heavier IO load (measured with an analytics DB)



LINSTOR CONNECTORS

LINSTOR

openstack

HashiCorp Nomad

RED HAT OPENSHIFT

Open Nebula

PROXMOX

Thank You

Questions & Answers

yusuf.yildiz@linbit.com

https://www.linbit.com