



KubeCon



CloudNativeCon

Europe 2020

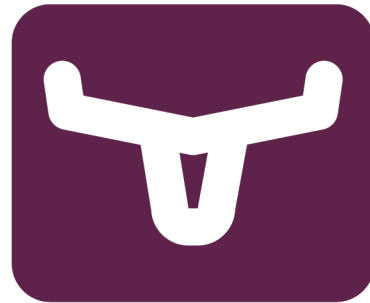
Virtual

Intro to Longhorn: Open Source Cloud-Native Storage For Kubernetes

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**CLOUD NATIVE
COMPUTING FOUNDATION**



LONGHORN

Open Source

Distributed Persistent Storage for Kubernetes

<https://longhorn.io/>

Get Persistent Storage Everywhere

Design Principles



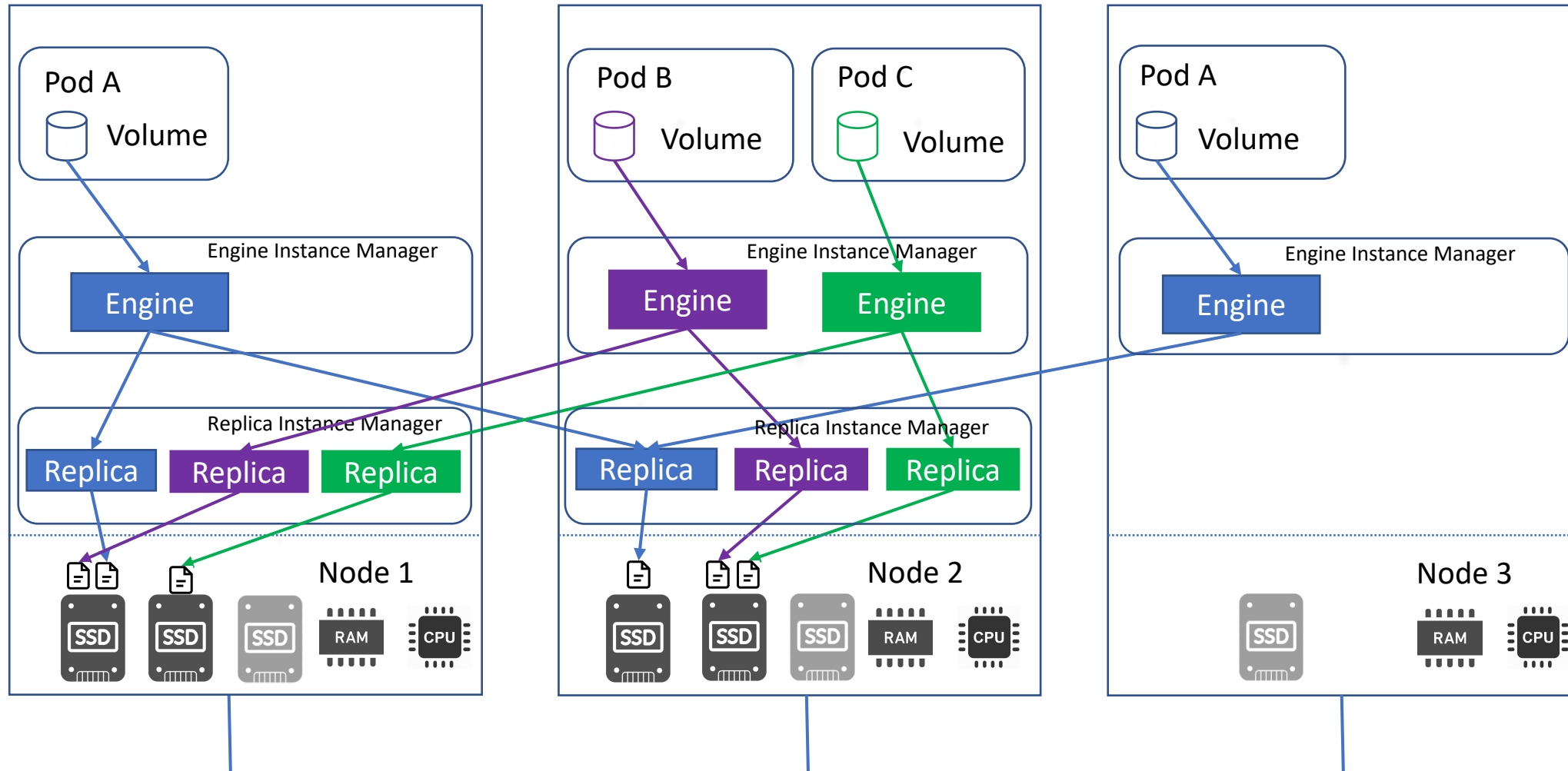
- **Reliability**
 - Crash consistent
 - Multiple layers of protection against data loss, including built-in snapshot and backup support
- **Usability**
 - One click installation
 - Polished user experience
- **Maintainability**
 - Easy to understand
 - Easy to recover even in the worst-case scenario
 - Upgrade without interrupting the workload

Latest Release: v1.0.1

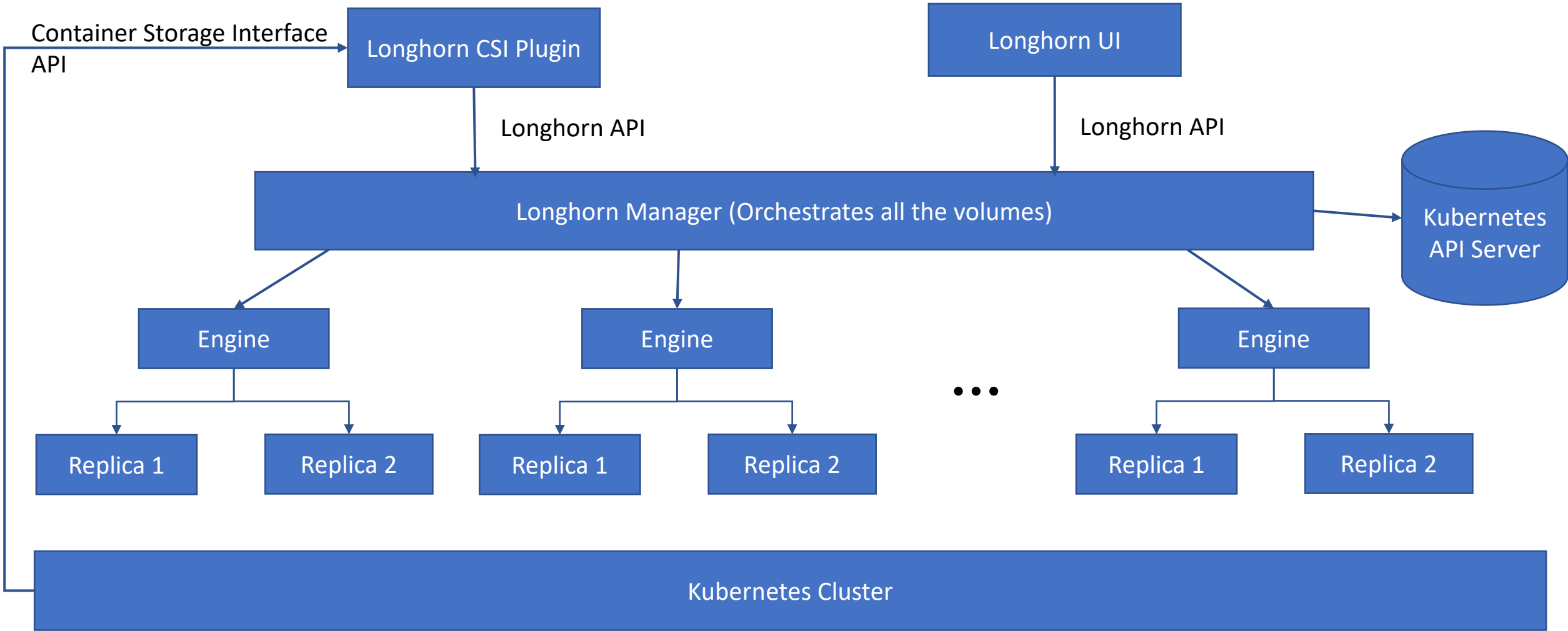


- Enterprise-grade distributed block storage software for Kubernetes
- Volume thin-provisioning
- Volume snapshots
- Volume backup and restore
- Volume expansion
- Cross-availability-zone replica scheduling
- Storage Tag for node and disk selection
- Cross-cluster disaster recovery volume with defined RTO and RPO
- Live upgrade of Longhorn software without impacting running volumes
- Intuitive UI
- One click installation
- And more

Architecture - Engine



Architecture - Manager





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Demo

Status update



- Latest release: v1.0.1
- GitHub star: 1.7k (by 07/24/2020)
 - Doubled since joining CNCF (last October)
 - Check <https://github.com/longhorn/longhorn> for details.
- Worldwide active nodes count: 10.2k (by 07/24/2020)
 - More than quadrupled compared to one year ago
 - Check <https://metrics.longhorn.io/> for details.
- 700+ users in the Slack channels
 - Doubled since joining CNCF
 - CNCF slack channel: #longhorn
 - Rancher User slack channel: #longhorn-storage
- Contributions are welcome!
 - File bug reports or enhancement suggestions at <https://github.com/longhorn/longhorn>

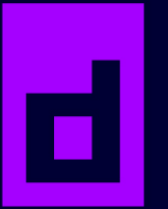
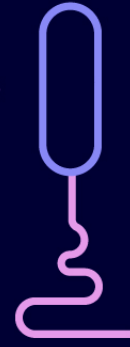
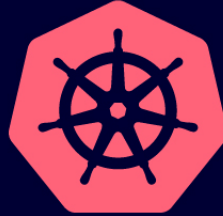


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