

LONGHORN

→ CNCF SANDBOX PROJECT

→ Cloud Native distributed block storage for Kubernetes

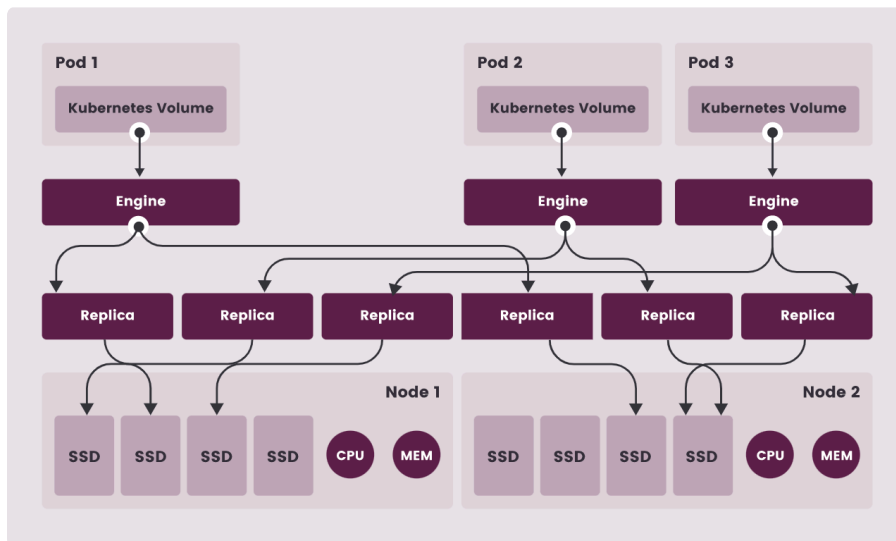


- Easy to Install
- Easy to Configure
- Use Node disk for storage
- Lubrid UI
- Easy to Use

Persistent container storage solution

- Stateful apps made easy with Longhorn
- Replication
- Backup to external storage NFS, minio
- DR planning
- Restore
- Backup Scheduling + Snapshots
- Smooth upgrades

SO MANY USES



↳ Manager Pod

- every Node (DS)
- API Server
- Create + Manage Volumes
- creates Engine

There are three instances with Longhorn volumes.

Each volume has a dedicated controller, which is called the Longhorn Engine and runs as a Linux process.

Each Longhorn volume has two replicas, and each replica is a Linux process.

The arrows in the figure indicate the read/write data flow between the volume, controller instance, replica instances, and disks.

By creating a separate Longhorn Engine for each volume, if one controller fails, the function of other volumes is not impacted.

With 1.1.0 → Built in ReadWriteMany Support

→ ARM64

→ CSI Snapshots

→ Prometheus Support