


Robin Cloud Native Storage for Rancher Kubernetes Engine (RKE)

Application-aware Storage and Data Management for all Stateful Applications

Robin Cloud Native Storage (CNS) brings advanced storage and data management capabilities to Rancher Kubernetes Engine (RKE), Rancher’s CNCF-certified Kubernetes distribution. Robin CNS seamlessly integrates with Rancher RKE to simplify management of stateful applications.

Developers and DevOps teams can deploy Robin CNS as a standard Kubernetes operator on RKE. Robin Cloud Native Storage helps simplify data management operations such as backup/recovery, snapshots/rollback, and cloning of entire applications (data+metadata+config), providing enterprise-grade data protection. Robin also ensures stateful application portability across RKE and Kubernetes running on any cloud.

Robin Cloud Native Storage for RKE

Any Stateful App	RDBMS, NoSQL, Queues, Timeseries, Big Data	
Storage & Data Management	Robin Cloud Native Storage	
Kubernetes Distribution	 Rancher Kubernetes Engine (RKE)	
Infrastructure	Bare Metal	Virtual Machines



Key Benefits

- **Always-on stateful applications**
- **Improved developer productivity**
- **Faster collaboration across teams**
- **Multi-cloud portability for applications**

Highlights

App-aware High Performance Storage

Robin is application-aware and provides bare-metal performance. All lifecycle operations are performed on the entire application state (data+metadata+ config), not just the storage volumes.

Data Protection and Disaster Recovery

Protect the entire application (data+metadata+ config) with snapshots and backups. Cloud backup provides full recovery from application crashes or datacenter disasters.

Application Cloning for Fast Collaboration


Collaborate across teams by cloning the entire applications in minutes. Make Dev and QA teams more productive by freeing up valuable time.

Hybrid and multi-cloud flexibility

Easily move complex stateful applications between IKS and on-prem and public clouds by running a single command.

Robin Cloud Native Storage for RKE Features


Robin Cloud Native Storage for RKE is available to users in two ways, Robin Express and Robin Enterprise. Both Robin Express and Robin Enterprise come with all of the features of Robin Cloud Native Storage. So you don't need to compromise on capability. You just need to determine how much scale you will need in your environment.



Robin Express

Get started quickly. No fees. No commitments.

- Free lifetime subscription
- All features included
- Up to 5 nodes and 5TB
- Community support



Robin Enterprise

Run mission critical applications with unlimited scale.

- Free trial for 30 days
- All features included
- No add-ons or additional charges
- Per-node hour or annual subscription pricing
- 24x7x365 enterprise support

No Compromise: All Features Included with Robin Express and Robin Enterprise

Storage Management		
Feature	Robin Express	Robin Enterprise
Application-aware storage	●	●
Bare-metal performance	●	●
Data security (encryption)	●	●
Data optimization (compression)	●	●
Data locality (compute-storage affinity)	●	●
Live data rebalancing to avoid hotspots	●	●
IOPS limits at application level	●	●
Disk and IO error detection	●	●
Disk and volume rebuilds	●	●
High availability with in-sync replication	●	●
Automatic resync of replicas on fall-behind	●	●
Volume consistency groups	●	●

Data Management		
Feature	Robin Express	Robin Enterprise
Application-consistent (data+metadata+config) snapshots	●	●
Redirect-on-write snapshots for cost efficiency	●	●
App quiescing before snapshots	●	●
Auto-scheduled snapshots	●	●
Local backups to recover from system/cluster failures	●	●
Cloud backups to recover from system, cluster, or datacenter failures	●	●
Central backup repository across multiple clusters	●	●
Forever incremental backups for cost efficiency	●	●
Auto-scheduled backups	●	●
Application cloning for collaboration	●	●
Thin cloning for cost efficiency	●	●
Disaster recovery to recover from datacenter failures	●	●

Multi-cloud Portability		
Feature	Robin Express	Robin Enterprise
Application-consistent (data+metadata+config) migration	●	●
Central repository across clouds for backups	●	●
Single command to import and recreate applications	●	●
Data hydration option for quick loading of applications	●	●
Secured access to backups	●	●

Get more information at robin.io/storage, or get Robin Cloud Native Storage for RKE [here](#).