ROBIN

DATASHEET

Robin Hyper-Converged Kubernetes Platform

Extend Kubernetes for data-intensive applications such as Hortonworks, Cloudera, Elastic stack, RDBMS, NoSQL, and AI/ML applications

What is ROBIN?

ROBIN is the industry's first hyper-converged Kubernetes platform for big data, databases, and AI/ML that provides a self-service App-store experience. Hyper-converged Kubernetes is a software-defined application orchestration framework that combines containerized storage, networking, compute (Kubernetes), and the application management layer into a single system.

Robin helps enterprises achieve faster roll-out of critical IT initiatives (e.g. containerization, cloud migration, multi-cloud strategy, cost-consolidation) and LoB initiatives (e.g. AI/ML, analytics projects).

This software-only solution runs on-premises in your private data center or in public-cloud (AWS, Azure, GCP) environments and enables 1-click deployment of any big data, database or AI/ML application. ROBIN enables 1-click simplicity for lifecycle management operations such as snapshot, clone, patch, upgrade, backup, restore, scale, & QoS control of the entire application. ROBIN solves fundamental challenges of running big data & databases in Kubernetes & enables deployment of an agile & flexible Kubernetes-based infrastructure for Enterprise Applications.

Key Benefits

Leverage Kubernetes for data-heavy applications

Get agile, flexible Kubernetes-based infrastructure

Accelerate your critical Enterprise IT and LoB initiatives

Hyper-Converged Kubernetes Stack Components

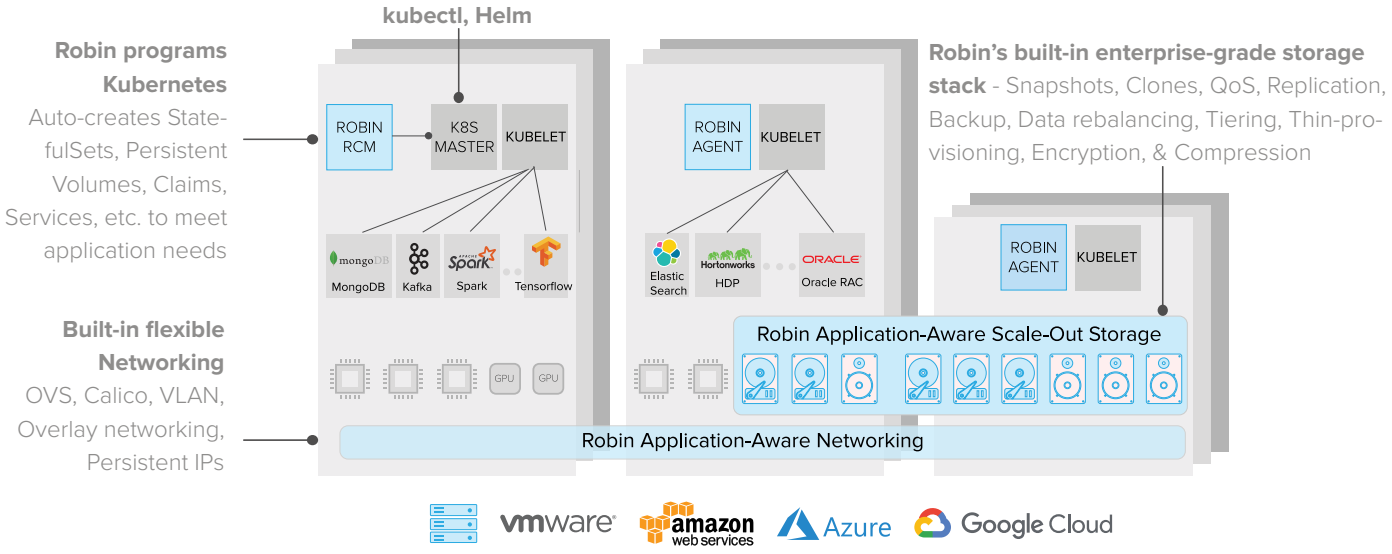
Application Management Layer - Manage Applications and configure Kubernetes, Storage & Networking with Application workflows.

Kubernetes - Run big data and databases in extended Kubernetes, eliminating limitations that restrict Kubernetes to micro-services applications.

Built-in Storage - Allocate storage while deploying an application or cluster, share storage among apps and users, get SLA guarantees when consolidating, support for data locality, affinity, anti-affinity and isolation constraints, and tackle storage for applications that modify the Root filesystem.

Built-in Networking - Set networking options while deploying apps and clusters in Kubernetes and preserve IP addresses during restarts.

Robin Implementation of Hyper-Converged Kubernetes



Robin Hyper-Converged Kubernetes Platform Features and Benefits.

Features	Benefits
Rapid Deployment - Self-service 1-click App-store experience.	Slash deployment and management times from weeks and hours to minutes. Deploy and manage data-heavy apps and services in Kubernetes.
Control QoS - Dynamic control QoS for every resource - CPU, Memory, Network and Storage.	Get complete visibility into the underlying infrastructure, set min and max IOPs, eliminate noisy neighbor issue, and gain performance guarantee.
Rapid clones - Clone the entire application along with its data - thick, thin, or deferred.	No performance penalties, backup data with ease, share data among users and applications, among dev, test, and prod, with no additional storage.
Application Snapshots - Take unlimited full application cluster snapshots, which include application configuration + data	Restore or refresh a cluster to any point-in-time using snapshots. Roll back easily with 1-click to the last snapshot in case of data corruption.
Scale - Decouple compute and storage, scale independently.	Scale out - add nodes. Scale up - increase CPU, Memory and IOPs.
High Availability - No single point of failure - get reliable crossover and detect failures.	Get automatic App-aware data failover for complex distributed applications on bare metal - ROBIN is the ONLY product to provide HA for apps that persist state inside Docker images.
Upgrade - Automated rolling upgrade of application containers that is integrated with CI/CD pipeline.	Safe-Upgrade technology guarantees that failed upgrades can be rolled back without disrupting the application.

Enterprise Data Apps-as-a-Service - Sample Customer Deployments

Fortune 500 Financial Services Leader

11 billion security events ingested and analyzed in a day

DevOps simplicity for Elasticsearch, Logstash, Kibana, Kafka

Global Networking and Security Leader

6 Petabytes under active management in a single Robin cluster

Agility, consolidation for Cloudera, Impala, Kafka, Druid

Global Technology Company - Travel Industry

400 Oracle RAC databases managed by a single Robin cluster

Self-service environment for Oracle, Oracle RAC

To learn more and to try ROBIN visit: robin.io