



# Data Protection Built for NoSQL Databases

Automated protection, data mobility, and storage efficiency

## RUBRIK SOLVES NOSQL DATA MANAGEMENT

Designed specifically to answer the issues of eventual consistency and replicated data sets of NoSQL, Rubrik solves the unique data protection challenges of NoSQL databases. Unlike traditional backup applications, Rubrik delivers a single software solution that automates the protection of NoSQL databases while delivering management flexibility and storage economy. Organizations that deploy large-scale Apache Cassandra or DataStax Enterprise applications on-premises, in the cloud, or hybrid, benefit from streamlined operations, cloud data mobility, and storage savings with Rubrik.



### STREAMLINED OPERATIONS

Automatically discover NoSQL databases as they are created and keep them protected by assigning a simple SLA policy.



### DATA MOBILITY

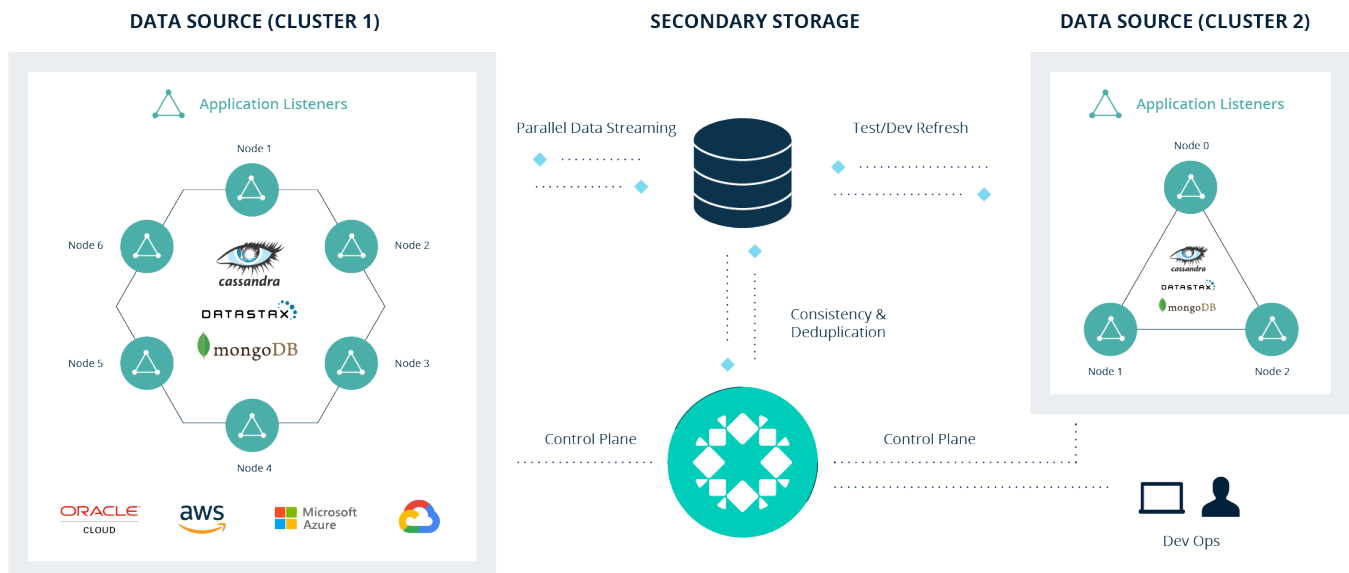
Application-centric data management means backups are consistent and can be restored to dissimilar topologies.



### STORAGE ECONOMY

Rubrik introduces semantic deduplication to reduce multiple database replicas into a single always-consistent backup image.

## REFERENCE ARCHITECTURE

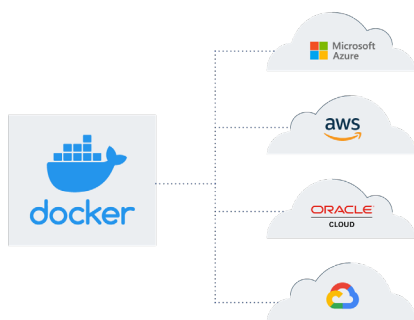


## AUTOMATED PROTECTION TO STREAMLINE OPERATIONS

- Deploy Rubrik to automatically discover sources, databases, and tables as they are created.
- Assign SLA Domain Policies at the source, database, or table level to automate protection by configuring frequency and retention.
- SLA assignments are inherited from source to database to table to keep your NoSQL databases protected. SLA inheritance can be overridden by assigning an SLA directly to a Database or Table.
- Manage data protection through a centralized UI in Rubrik Polaris. Rubrik can also be managed locally through an API or CLI.

## SPEED AND SCALE TO MEET ENTERPRISE DEMANDS

- Parallel data streaming directly to and from backup storage without any in-line media servers or other bottlenecks means improved RPOs and the ability to deliver aggressive RTOs for the largest enterprise applications. Incremental forever backup reduces RPOs.
- Because it's an elastic, software-only solution designed for the cloud, Rubrik can scale up and down on demand. Deploy Rubrik on-premises or in the public cloud including AWS, Azure, Google, and Oracle. With Rubrik, you choose the most cost-effective storage.
- Rubrik is available as a standalone binary for on-premises, virtual environments, or containerized environments, as a Docker container, or through Azure Marketplace. An available API and integrations with Ansible, Datadog, ServiceNow, Splunk, Amazon CloudFormation, and Azure Resource.



## RESTORE ANYWHERE

- Because data is always stored in its native format, Rubrik offers multi-faceted data mobility. Rubrik can recover all or just a subset of the data to dissimilar database topologies, from on-premises to the cloud, or to different clouds.
- Rubrik lets you restore to an original cluster even when the topology changes – either planned or unplanned. Dissimilar topology restore is achieved without a performance impact and without the need to repair the database.
- Restore to different sized clusters in downstream environments to support automated test/dev refresh and speed development cycle time. Transaction data is always restored in a consistent state from the production database irrespective of where data is restored.
- Rubrik lets you perform a query and restore only the data you need from virtually any point in time. Queryable recovery with Rubrik's data masking capability reduces the risk of confidential data exfiltration in test databases. Securely mask sensitive Cassandra and DataStax Enterprise data.
- Support for public cloud, combined with Rubrik's global metadata catalog gives you the independence and control to store backup and archive data anywhere – and move it where and when you need to.

## EFFICIENT BY DESIGN

- Ultralight connectors, or NoSQL Application Listeners accelerate large scale backup and recovery for Apache Cassandra and DataStax Enterprise. One license, based on database node count, manages all supported databases across on-premises or cloud deployments.
- Rubrik elastic scale-out architecture is used by customers to automatically scale up during peak demand and to scale back during slack periods to save costs. When deployed in a clustered configuration, Rubrik also ensures high availability for the most demanding enterprise applications.
- Rubrik introduces semantic deduplication, to deliver storage efficiency that other solutions cannot. Rubrik identifies identical data fragments, such as a database entry, so that only one copy of the data is stored.



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