

# Next-Generation Backup and Recovery for DataStax Enterprise with Rubrik Mosaic

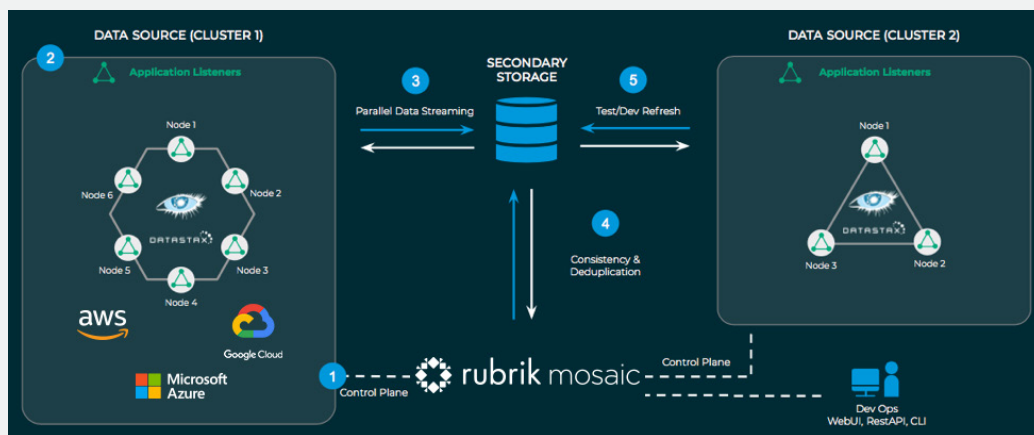
## RUBRIK MOSAIC OVERVIEW

Rubrik Mosaic is an application-centric data management software that provides backup and recovery for NoSQL, non-relational enterprise database systems such as Apache Cassandra, DataStax Enterprise, and MongoDB. Rubrik Mosaic delivers scalable versioning, one-click recovery, and the industry’s first semantic deduplication, reducing storage costs up to 80% in the cloud or on-premises. Mosaic includes any point-in-time backup and orchestrated recovery to safeguard against logical and human errors, malicious data corruption, application schema corruption, and other software errors.

## DATASTAX ENTERPRISE OVERVIEW

DataStax Enterprise (DSE), built on Apache Cassandra™, powers next-gen applications in order for enterprises to respond faster to the market and deliver differentiated services. DataStax Enterprise is the leading distributed database choice for online applications that require fast performance with no downtime. Enterprise benefit from DataStax Enterprise’s in-memory computing, enterprise-level security, integrated analytics, enterprise search, visual management, and expert support.

## RUBRIK MOSAIC REFERENCE ARCHITECTURE FOR DATASTAX



Rubrik Mosaic is a software platform that can be deployed in any form factor, such as VMs on-premises, software instances in any cloud provider, or as Docker containers. Rubrik Mosaic does not store your data but sends data directly from the source clusters to the backup target, such as NFS, AWS S3, or S3 compatible private object storage (e.g. EMC ECS, Cloudian, and Scality). Rubrik Mosaic delivers application consistent backups and semantic deduplication with a policy-driven approach.

## KEY BENEFITS

<b>Faster Recovery with Application Consistent Backups</b>	As enterprises adopt cloud-first and hybrid cloud policies, their applications and data are increasingly fragmented across multiple data centers and clouds. To withstand cyber attacks like Ransomware, organizations need a single software platform to protect and recover their data across on-premises to cloud. Rubrik Mosaic delivers local backup of geo-distributed applications, enabling local data center recovery for faster RTOs with any-to-any topology recovery.
<b>Data Mobility and Test/Dev with Orchestrated and Queryable Recovery</b>	As enterprises face significant data explosion, enterprises struggle to deliver faster RTOs while achieving business agility and adhering to mandatory security imperatives, such as GDPR. At the same time, enterprises are building customer-centric applications that span hundreds of tables with hundreds of TB's of data with change rates approaching 300%. To address this new class of recovery requirements, Rubrik Mosaic delivers advanced features including queryable recovery enabling fast, sub-table level recovery as well as incremental and streaming recovery. As a result, enterprises significantly reduce recovery times down to minutes, minimize storage requirements for large-scale restore operations, and accelerate test/dev by streaming only what is needed to a topology that makes sense.
<b>Up to 80% Hard Savings with Industry-first Semantic Deduplication</b>	Rubrik Mosaic delivers industry-first semantic deduplication to greatly reduce storage costs of distributed databases over their retention period. These space-efficient backups dramatically reduce the overall storage footprint resulting in up to an 80% reduction in backup storage.
<b>Secure Protection with Enterprise-Grade Security</b>	Rubrik Mosaic is experiencing massive adoption in large enterprises across industries, including retail, eCommerce, financial services, and healthcare – all of which have stringent security requirements. Rubrik Mosaic supports TLS/SSL encryption and X.509 certificates to deliver enterprise-grade security between Rubrik Mosaic software, data sources, and integration with enterprise security management tools.

## CONCLUSION

Rubrik Mosaic delivers enterprise-grade data protection purpose-built for next-gen applications built on DataStax Enterprises. Benefits include:

- Minimize application downtime through application consistent point-in-time backups by removing database repairs post recovery operations
- Reduce secondary storage costs up to 80% using industry-first semantic deduplication
- Fault-tolerant and elastic performance via a highly available software platform
- Operational efficiency through fully orchestrated and queryable recovery
- Lightweight deployment in any form factor across on-premises to public cloud



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Rubrik delivers a single platform to manage and protect data in the cloud, at the edge, and on-premises. Enterprises choose Rubrik's Cloud Data Management software to simplify backup and recovery, accelerate cloud adoption, and enable automation at scale. Rubrik's run-anywhere, scale-out architecture is built to empower IT departments today and in the future, reducing total cost of ownership while enabling infrastructure flexibility for a multi-cloud world. For more information, visit [www.rubrik.com](http://www.rubrik.com) and follow @rubrikInc on Twitter.

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