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# Leading Home Improvement Retailer Achieves 1-Hour Backup SLA with Rubrik NoSQL Protection

## OUR CUSTOMER ACHIEVED

**1 Hour**

Using Rubrik NoSQL Protection, our customer was able to backup multiple Cassandra databases and recover from data loss with an SLA of one hour. In addition, it increased its compute and memory resources during peak seasons, and was able to achieve the required backup performance.

## KEY CHALLENGES

- Cloud-native backups of Cassandra (DataStax Enterprise)
- Data protection SLA of one hour and minimize application downtime
- Automate refresh of test clusters using production data at regular intervals

## WHY RUBRIK NOSQL PROTECTION

- The only cloud-native data protection solution for Apache Cassandra and DataStax Enterprise in GCP
- Cluster-consistent backups that don't require repairs on recovery, leading to low recovery time objective (RTO)
- 80% reduction in secondary storage costs
- High-performance to guarantee one-hour SLA using elastic compute/storage resources

Rubrik NoSQL Protection provides the industry's first cloud-scale, application-centric, data management platform, enabling organizations to protect, mobilize, and monetize all of their application data across private cloud, hybrid cloud, and public cloud environments.

*"The Rubrik team listens. Over the last nine months, we have given them a number of NoSQL Protection product features, and the team delivers at a record pace."*

## THE CUSTOMER

Our customer is a Fortune 100 home improvement retailer with thousands of brick-and-mortar stores in the United States, Canada, and Mexico. In addition, it has an e-commerce application that is central to its digital transformation journey. The company's hyperscale application is built with a cloud-first methodology that is natively deployed on Google Cloud Platform (GCP).

## THE PROBLEM

Our customer's challenges can be summarized in three broad categories.

The first is **backup and recovery for Cassandra in Google Cloud**. The company is in the midst of its digital transformation journey, and as its online business grew, it experienced challenges in scaling its existing relational databases. The company redesigned its online business application using a microservices-based cloud-native application architecture. This new application is deployed in Google Cloud Platform and uses underlying Apache Cassandra (DataStax) databases to populate information for different customer-facing platforms. Given that its core online business is based on this web-scale e-commerce application, any data loss is detrimental for the company's business. The ability to back up multiple Cassandra databases and recover from any data loss with a Service-Level Agreement (SLA) of one hour is critical.

The second category is **backup software elasticity**. Being in the e-commerce industry, our customer experiences huge spikes in data volume during the holidays, especially Thanksgiving and Christmas. It could not rely on a static infrastructure footprint; instead, it wanted to scale resources only during peak seasons and then reduce the resources back after the season ended. This would ultimately allow the company to optimize the cost of operating a data protection solution without sacrificing high availability.

The third category is **test cluster refresh using production data**. Our customer has multiple production and test clusters, and it implements Continuous Integration and Continuous Development (CI/CD) methodologies. Initially, the company had to spend a considerable amount of time refreshing its test clusters because the clusters were of different topologies. The company needed a data management solution that would automate the refresh of test clusters using production data at regular intervals.

## THE SOLUTION

Initially, our customer's DevOps team used database-native tools but could not achieve the enterprise-level data protection features that it needed. To quantify the impact of this, any outage is estimated to cost hundreds of thousands of dollars in lost business.

The company natively deployed Rubrik NoSQL Protection in the Google Cloud environment in a clustered configuration to achieve high availability. A single NoSQL Protection cluster was deployed to protect as many as six Cassandra clusters with a one-hour backup interval. The data was stored on Google Cloud Storage for cost effectiveness.

## THE RESULT

Using Rubrik NoSQL Protection's industry-first features, the customer was able to achieve operational and capital cost savings. At the same time, it was able to meet the organizational goal of a one-hour SLA.

Semantic deduplication resulted in 82% storage cost savings. Further, the customer optimized its infrastructure costs by allocating appropriate compute resources depending on its application requirements.

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