

Small Business Computer Software Company Partners with Couchbase to Improve Query Performance

Introduction

This case study of a small business computer software company is based on a July 2020 survey of Couchbase customers by TechValidate, a 3rd-party research service. The profiled company asked to have their name blinded to protect their confidentiality.

“Couchbase has exceeded all of my expectations for performance, ease of use, flexibility, documentation, etc.”

“We use Couchbase in conjunction with Elasticsearch to power a photo metadata management application.”

“We transitioned to Couchbase from Firestore as our primary document database and we saw performance improve by at least 10x in terms of read and write throughput. We no longer had to contend with arbitrary DBaaS limits. We could use Couchbase for a wider range of use cases due to Couchbase’s indexing and N1QL features. The Go SDK was easier to use and resulted in about 50% fewer lines of code than the Firestore Go SDK. Overall, everything has been great.”

Challenges

The business challenges that led the profiled company to evaluate and ultimately select Couchbase:

- Experienced the following challenges prior to implementing Couchbase:
 - Performance
 - Reliability & resiliency
- Evaluated the following vendor before choosing Couchbase:
 - MongoDB

Use Case

The key features and functionalities of Couchbase that the surveyed company uses:

- Values the following Couchbase features compared to other solutions they have used:
 - Flexible schema
 - N1QL
 - XDCR
 - Memory-first architecture
- Is storing 50 – 500 million documents in Couchbase.
- Is storing 200 GB – 1 TB of data in Couchbase.
- Is running up to 50k requests/operations per second in Couchbase.
- Describes their Couchbase deployment:
 - Clusters: up to 10
 - Nodes: up to 10

Results

The surveyed company achieved the following results with Couchbase:

- Saw returned value immediately after implementing Couchbase.
- Rates the following improvements since working with Couchbase:
 - Lowered total cost of ownership: 25-49%
 - Increased query performance: 75%-100%
 - Increased operational efficiency: 50-74%
 - Accelerated development cycles: 50-74%
 - Accelerated response times: 50-74%
 - Experienced more efficient database management: 50-74%
 - Improved application uptime & availability: 50-74%

Company Profile

The company featured in this case study asked to have its name publicly blinded because publicly endorsing vendors is against their policies.

TechValidate stands behind the authenticity of this data.

Company Size:
Small Business

Industry:
Computer Software

About Couchbase

Couchbase provides an enterprise-class, multicloud to edge database that offers the robust capabilities required for business-critical applications on a highly scalable and available platform.

Learn More:

[Couchbase](#)