

Industry

- [Retail & E-Commerce](#)

Customer application

- E-commerce microservices

NoSQL solution

- [Customer 360](#)
- [Catalog & Inventory Management](#)

Use case

- Caching
- Session Store
- User Profile
- Product catalog

Product

- [Couchbase Server](#)

Key features

- Multi-dimensional scaling



Carrefour

Carrefour is one of the world's largest retailers with over 1,000 stores in Spain alone. Carrefour Spain also manages an online marketplace with over 1,500 vendors and 3 million products. When their monolithic e-commerce platform became too unwieldy to manage efficiently, Carrefour Spain decided to transition to a microservices platform in the cloud. Couchbase enables Carrefour to meet all their microservices objectives, including fast time to market, integrated cache and database, and no downtime during peak traffic.

CHALLENGES

- Create a 100% cloud-native solution that simplifies and decouples the e-commerce architecture to minimize breaking points
- Reduce time to market with a flexible solution for creating and deploying a wide variety of e-commerce applications, from inventory to click & collect
- Provide high-speed caching to easily manage peaks like Black Friday and Cyber Monday with no downtime and fast response times

OUTCOMES

- Couchbase's cloud-first architecture makes it fast and easy to develop decoupled microservices and to scale applications independently
- Applications sustain performance of 20,000 operations/second even under extreme load spikes of up to 4x normal workload
- Average response times are less than 3 milliseconds, oftentimes submillisecond

“Couchbase is easy to manage, you can effortlessly scale horizontally, or build additional machines. We don't have to do anything additional or worry about anything.”

Jesus de los Bueis

Software Development Manager, Carrefour

About Couchbase

Unlike other NoSQL databases, Couchbase provides an enterprise-class, multi-cloud to edge database that offers the robust capabilities required for business-critical applications on a highly scalable and available platform. As a distributed cloud-native database, Couchbase runs in modern dynamic environments and on any cloud, either customer-managed or fully managed as-a-service. Couchbase is built on open standards, combining the best of NoSQL with the power and familiarity of SQL, to simplify the transition from mainframe and relational databases.

Couchbase has become pervasive in our everyday lives; our customers include industry leaders Amadeus, American Express, Carrefour, Cisco, Comcast/Sky, Disney, eBay, LinkedIn, Marriott, Tesco, Tommy Hilfiger, United, Verizon, as well as hundreds of other household names. For more information, visit www.couchbase.com.