Couchbase

THE POWER OF SQL, THE FLEXIBILITY AND SCALE OF NoSQL

Meet the Strength of Couchbase Cloud in Microsoft Azure

Challenges

Applications are changing faster than ever before while requiring even more scale and reliability

This new decade has already brought tectonic shifts in the way that everyone does business. It has changed how we work, shop, socialize, communicate and even relate to one another. IT organizations forced to respond to these new behaviors must modify or upgrade existing applications pronto. Developers must make rapid changes and deploy them to production practically overnight. Meanwhile, traffic has skyrocketed, and users demand absolute reliability. Testing in production used to be a rookie mistake, and now it is a requirement. Meanwhile, infrastructure must immediately scale on demand while constantly under the threat of a security or denial of service attack. Cloud technologies like Microsoft Azure are part of the answer, but a secure data architecture that can change on demand while under load is no longer a nice to have but a necessity.

The Couchbase Cloud Solution

A flexible, high-performance NoSQL database, secured in your Azure account

Couchbase Cloud is an expertly-managed database-as-a-service secured and scaled on your Azure Virtual Network (VNet). Couchbase is a database like no other you have used on Azure. It features the in-memory performance of a built-in key-value store, the flexibility of a JSON-based document database combined with the familiarity of SQL, and the raw power of Microsoft Azure.

Couchbase Cloud's in-VNet deployment allows software teams to secure and control data in whatever Azure region it resides. Couchbase Cloud enables operations to choose instance types and take advantage of their Azure discounts and negotiated prices. These capabilities empower organizations to match their database services to their infrastructure, simultaneously saving money and optimizing the cluster configuration.

Couchbase Cloud enables administrators to manage all of their clusters from a single console, where they can deploy, configure, scale, upgrade and monitor across the globe.

Couchbase Cloud supports on-premises migration into Azure as well as cross datacenter replication (XDCR) across geographic regions or to another cloud. Couchbase Cloud offers impressive node-for-node price performance over other database systems and provides transparent licensing policies that dramatically lower your long-term operational costs.

If your team is deciding between NoSQL or SQL for your next application, Couchbase Cloud is the solution that offers both.

Benefits

Couchbase Cloud offers exceptional price-performance and low TCO, allowing customers to control their data, clusters, and costs from a single console.

Node-for-node performance leader
Couchbase is the high-performance leader in node-for-node NoSQL workload performance. Couchbase is regularly 2 to 20 times faster than competing solutions.

Easy management from a single control console
Regardless of where in the world they are deployed, Couchbase Cloud clusters are maintained and managed from a single console, making monitoring and management simple.

Customers control their data at all times
The in-VNetdeployment of Couchbase Cloud allows IT organizations to control and secure their data their way by supporting their network, security, and data sovereignty best practices.

Control costs with exceptionally low TCO
Couchbase Cloud offers flexible and transparent licensing and discount policies that, when combined with your Azure discounts and the performance of Couchbase, offer industry-leading TCO.

Couchbase Cloud on Azure is cost-effective

Couchbase Cloud on Azure provides exceptional value. It is an Azure-native offering built on Azure Kubernetes Service (AKS) and choice of hourly or reserved instances for each cluster node. This combination supports best practices for data security, scaling, and resource usage, and puts the customer in control of their SaaS and IaaS operating costs.

Couchbase users are encouraged to use hourly, per-instance pricing for development and testing. Additionally, they can spend even less by selecting Couchbase's Developer Pro subscription, which relaxes support service level SLAs and saves over 35% from the 24x7 Enterprise subscription. When it is time for Couchbase Cloud to run in production, teams can combine the minimum 20% discounts of Couchbase pre-paid credits with 70% or more discounts for reserved instances to maximize long-term savings. Many competing offerings lack transparency by hiding operational costs and margins, yet with Couchbase Cloud on Azure, IT organizations know what they are spending and where.

Features

Memory-first performance of key-value databases with JSON document flexibility

Couchbase Cloud is a fully-managed database-as-a-service featuring clusters of Couchbase Server. Couchbase Server is a high-performance, scalable key-value, and document database. Its memory-first design ensures that data is written and read at lightning speed, while built-in distributed ACID transactions ensure the data's long-term safety. Couchbase Cloud includes multidimensional scaling of the database's primary query, index, and data control services. Its clustering and replication capabilities include elastic node scaling, automatic data rebalancing, cross-datacenter replication (XDCR), and automated backup and archiving. This combination of performance, versatility, and scale is unmatched, and is the mettle behind Couchbase. NoEqual.

STAPLES

Couchbase is a memory-first solution with low-latency and high throughput. The Staples team decided to implement its enterprise inventory service using Couchbase. Developed as an alternative to traditionally inflexible relational databases, Couchbase provides a geo-distributed cloud-native NoSQL document-oriented database for unparalleled performance at any scale. The Staples team recognized that Couchbase could provide scalability for the future.

CHALLENGES

Staples built an enterprise-grade visibility service that serves as a single source of truth for inventory availability and order delivery promise. Staples needed to provide customers with consistent, accurate inventory availability and order delivery information. Staples customers demand a responsive experience across all ordering channels with low latency, high throughput, and unmatched reliability.

SOLUTION

The Staples team decided to implement its enterprise inventory service using Couchbase on Azure. Developed as an alternative to traditionally inflexible relational databases, Couchbase provides a geo-distributed cloud-native NoSQL document-oriented database for unparalleled performance at any scale.

RESULTS

Staples has been one of the economy's bright spots recently and announced plans to acquire Office Depot. Using Couchbase, they provide customers with real-time visibility into product availability and delivery estimates, consistent and accurate across all ordering channels. The project allowed them to increase customer retention, acquisition, and traffic by creating convenient and frictionless omnichannel experiences.

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About Couchbase

Unlike other NoSQL databases, 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. 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.