

Enterprise-class, multipurpose Database-as-a-Service

Couchbase on AWS delivers performance, flexibility, and savings

Enterprises often struggle with the costly, labor-intensive efforts associated with managing cloud-based applications and their multiple related data technologies. Crucial tasks, such as resolving application performance issues and organizing millions of product catalog and inventory records, may require significant time and effort.

Couchbase Capella on Amazon Web Services (AWS), a modern Database-as-a-Service (DBaaS), supports many workloads in a single database for your applications. Leveraging automation in Capella can help you remove database management and maintenance efforts. Capella delivers flexibility and enterprise-grade performance at scale for applications, with strong price-performance to reduce costs and complexity so you can focus on more business-critical tasks.

Couchbase **CAPELLA Overview**

Capella's multipurpose design supports a flexible JSON data model with SQL for applications that need operational, vector, and analytic data. As a fully managed DBaaS, it automates setup, configuration, replication, and ongoing operations so you can focus on development and improve your time to market.

Capella provides enterprises with a built-in cache for in-memory speed, easy scalability, mobile database sync services, always-on availability, and advanced security.

In collaboration with:



Improving efficiency in financial services

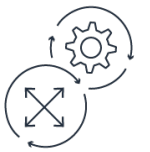
A multinational financial services corporation needed a fast, reliable data platform that could be deployed easily and deliver on requirements for real-time performance. The corporation turned to Couchbase and AWS to develop and deliver transactional applications that meet the demands of its global customer base. Leveraging Amazon API Gateway with Couchbase, the corporation was able to gain real-time connection to its customer-facing applications and better serve customers.

Key features



Development flexibility

Capella offers key-value access, SQL query, vector search, full-text search, ACID transactions, event triggers, and real-time analytics to support a broad set of use cases.



High availability and automated scaling

Capella automates the adding, removing, or changing of nodes to meet your current needs with no application changes. It provides guaranteed global reliability of your data throughout Regions and Availability Zones through native replication across geo-aware, cloud clusters.



Mobile and IoT application synchronization

Capella App Services is a fully managed backend designed for mobile, internet of things (IoT), and edge applications that guarantees they are always on, regardless of web connectivity and speed. These services help enterprises sync, store, query, search, and analyze at the edge.



Enhanced security

Capella delivers end-to-end encryption from the software development kit (SDK) to the disk and offers granular role-based access control. Capella has successfully completed independent reviews for SOC 2, GDPR, PCI DSS, and HIPAA-related requirements.

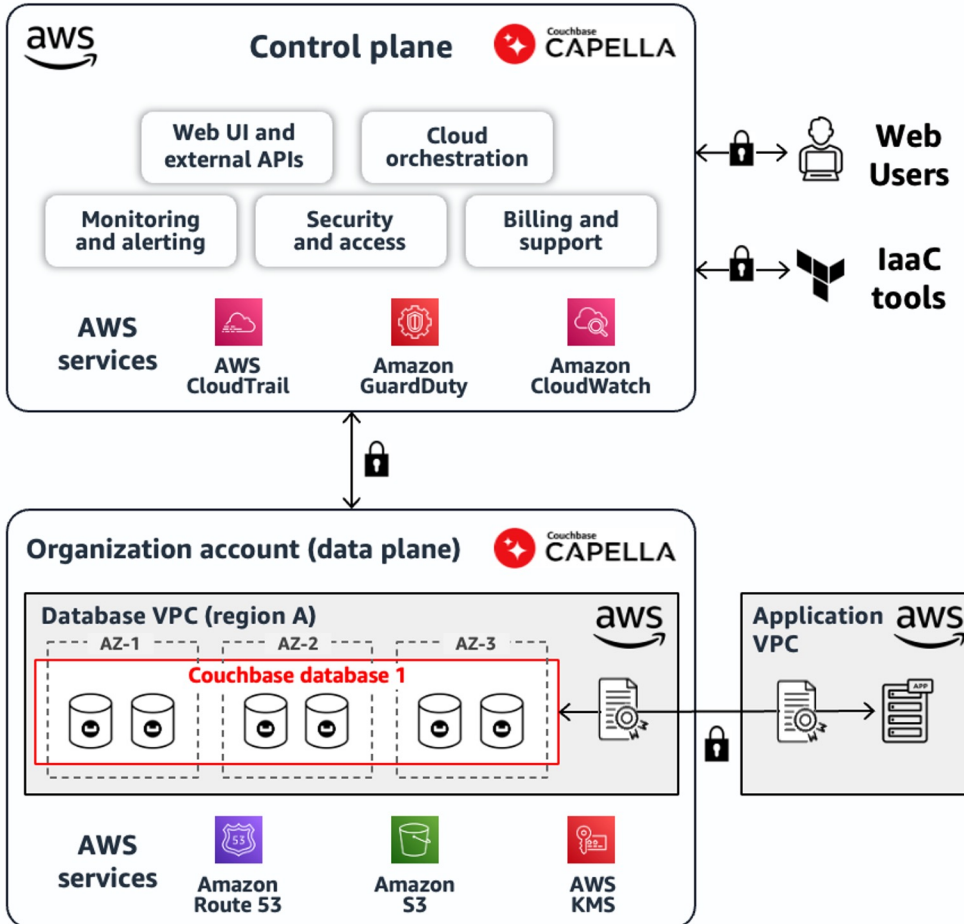


Leveraging Couchbase on AWS

Available in AWS Marketplace, Couchbase Capella is built on AWS and leverages more than 20 AWS products. Capella can help you quickly and cost-effectively develop, deploy, and scale engaging customer experiences by taking advantage of high-performance data management for web, mobile, and IoT applications. Couchbase on AWS removes the need to create and manage schemas or to normalize, shard, or tune your database.

Streamlining engineering tasks for better customer outcomes

Centrica PLC, an international energy services and solutions provider, provides services to over 10 million customers. Customers expect quick, accurate service to solve urgent issues, such as broken boilers or disrupted energy supplies. To help improve its services, Centrica leveraged Couchbase Capella on AWS for its customer 360 application. The application stores and provides access to customer data, which includes products and billing history through a field application used by engineers. With help from Couchbase and AWS, Centrica now has efficient, reliable, and secure access to this data. Centrica's applications can quickly highlight and share the key details that engineers need to fix customers' issues.



Faster deployments

Couchbase enables you to set up solutions in minutes compared to days or weeks.

Lower total cost of ownership

Using Couchbase, enterprises can lower their total cost of ownership (TCO) by 50 percent while accessing more features in a single database and limiting complexity.

Improved speed

Leveraging Couchbase's solution, customers can improve queries by nearly 2,000 percent.

Featured AWS products



Amazon Simple Storage Service (Amazon S3)

Amazon S3 is an object storage service offering industry-leading scalability, data availability, security, and performance.



Amazon Elastic Block Store (Amazon EBS)

Amazon EBS is an easy-to-use, scalable, high-performance block-storage service designed for Amazon Elastic Compute Cloud (Amazon EC2).



Amazon Elastic Kubernetes Service (Amazon EKS)

Amazon EKS is a managed service that makes it easy for you to run Kubernetes on AWS without needing to install and operate your own Kubernetes clusters.



Amazon EC2

Amazon EC2 offers a broad, deep compute platform, with over 750 instances and choice of the latest processor, storage, networking, operating system, and purchase model to best match the needs of your workload.

[Learn more >](#)



Discover the fastest, easiest way to get started with Couchbase.
Remove database management efforts with [Couchbase Capella on AWS](#).

About Couchbase

Couchbase is an award-winning distributed, modern cloud database that provides an enterprise-class, cloud to edge database offering the robust capabilities required for business-critical applications on a highly scalable and available platform. Developed as an alternative to traditionally inflexible relational databases, Couchbase architected a SQL-compatible NoSQL database for today's data-intensive web, mobile, and IoT applications. 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 offers several solutions including Couchbase Capella, a fully-managed, modern Database-as-a-Service for mission-critical applications.