

Riak DB

Easily scale your database with your business

UNLOCKING THE VALUE IN DATA NOW AND IN THE FUTURE

The only distributed database platform supporting integrated key value, object storage and search.



Riak is an open source, distributed database that helps applications developers store, manage and secure unstructured data in a fault tolerant, highly available database.

The availability of your data

Companies rely on data to power their day-to-day operations. It is imperative that this data is always available. Even minutes of web application downtime can mean lost revenue, poor user experience, brand bruising, and customer churn. This can add up to millions in lost revenue. Most databases work at small scale...but how do you scale out, up and down, predictably and linearly? You need a different database. A distributed NoSQL database that meets your business needs. Riak Enterprise is a distributed database built to meet your online application database needs. Riak is architected for

high availability, fault-tolerance, ease of operations and massive scalability.

The Weather Company requires an architecture that is both flexible and reliable, allowing us to deliver higher accuracy through superior data. Basho has been a valuable partner in our transformation and Riak has proven to be a critical component as the NoSQL distribute database powering our new platform. – Bryson Koehler, EVP and CIO, The Weather Company.

New business challenges

Traditional database architectures were first developed in the late 60s and early 70s. They were the default option for many pre-Internet applications. Riak is uniquely built to better handle a variety of web application challenges including: tracking user sessions, storing fast growing unstructured or connected device data, ensuring globally distributed reads and writes are fast.

Why migrate to Riak?

- You demand high availability. Riak's masterless architecture ensures your data is always available for reads and writes.
- You need to grow your business without the massive costs of scaling. Riak grows as your business grows scaling out using commodity hardware to keep your business growing.
- Simple data models. Relational schemas can be needlessly complex for addressing the emergence big data, "agile" development, and new types of applications (social and mobile). Riak is powerful and easy to use for storing massive amounts of unstructured data. You demand high availability. Riak's masterless architecture ensures your data is always available for reads and writes.

Riak DB

Enhanced usability and scalability for even faster growing businesses



Riak 2.0 provides application developers enhanced usability and scalability for faster development of highly available, globally scalable applications.

The New Riak 2.0 is architected for high availability, ease of operations, and massive scalability. It is a distributed NoSQL database optimized for private, public, or hybrid clouds. Riak has proven to be operationalized at lower costs than traditional relational databases and is easy to manage at scale. Riak is the only distributed database platform that includes key/value, object storage, and search. Riak 2.0 enhances the Riak platform with highly innovative functionality that reduces code complexity and enhances operational simplicity.

New features include:

- Riak Search: The completely redesigned Riak Search leverages Apache

Solr, enabling integration with a wider variety of existing software and commercial solutions.

- Built-in data types: In addition to the counter data type, Riak now includes sets, registers, flags and maps as new distributed data types.
- Security: Riak now provides authorization and authentication to manage users and groups.
- Simplified configuration management: Consolidating Riak's operational simplicity continues to improve by consolidating configuration information and storing it in an easy-to-parse, transparent format.
- Strong consistency: Developers have the flexibility to choose whether buckets should be eventually consistent (the default Riak configuration today that provides high availability) or strongly consistent, based on data requirements.

Key Benefits

- Enhanced scalability and usability — Riak Search leverages Apache Solr for enhanced search and query functionality.
- Reduced code complexity — new data types automatically handle complex conflict resolution without custom client side logic.
- Enhanced operational simplicity

Easily control who can run specific commands with integrated authentication and authorization.

Simplified configuration makes it simple to integrate with automation frameworks.

Manage bucket properties more effectively with bucket types.

Your experienced technology partner

Enhanced usability and scalability for faster development

Data modeling

NoSQL data modeling requires a deeper understanding of data structures and algorithms than relational database modeling does. Capturing all the possible relationships in a data model can be very time-intensive, but is very important to choose and implement the right NoSQL solution.

Training & Workshops

Train your development and operation teams to effectively develop and maintain your solutions. We deliver world-class trainings that meet your needs most efficiently to gain maximum value from key database and search solutions.

- Trainings at the location and date of your choosing.
- Trainings as a part of the implementation process.
- Trainings that always cover both theory and hands-on sessions.
- Trainings as part of the implementation process: peer-to-peer architecting.
- Trainings that always cover both fundamental insights and hands-on sessions.



Strategy&Tech Talk

Growing amounts of data, online business models with millions of concurrent actions, users' demand for real-time response, and the need to scale business and databases drives the demand. To share the knowledge and experience we have scheduled several open Strategy&Tech Talk events - free events on how to link business strategy and goals with a technologies that deliver after launch.

Our experts work in the intersection between business and technology strategies and draws on extensive experience from a range of industry implementation projects.

If you are interested in the possible ways of transforming your business by utilizing your data effectively - join the open Strategy&Tech Talk or [book an in-house Talk](#) to examine the possibilities of connected data.

