MARIADB XPAND

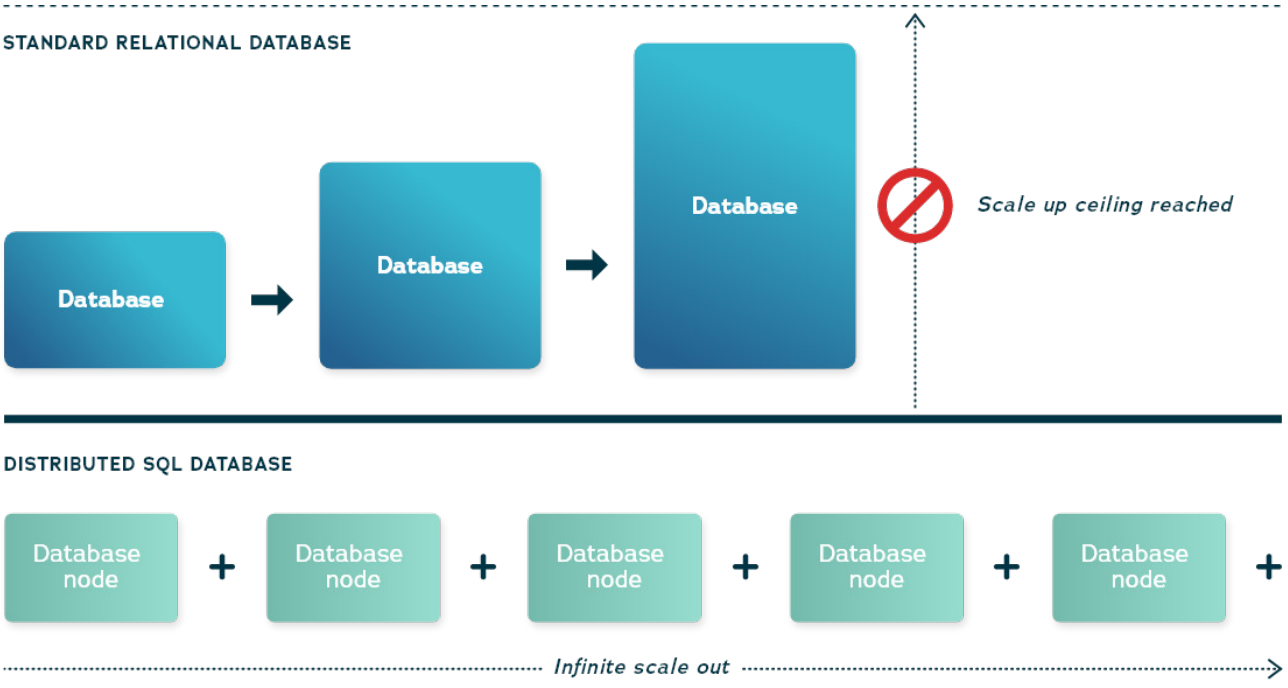
A database for the digital era

MariaDB Xpand is a distributed SQL database for businesses whose applications need to run at a scale beyond that which traditional databases are capable of. It was built to meet the high scalability, performance and availability needs faced by businesses shifting to online customer engagement, whether it's the result of undergoing digital transformation or being digital native.

BUILT FOR A NEW GENERATION

The shift to doing business online is occuring in every industry in response to customers embracing e-commerce, mobile banking, streaming media, messaging, video conferencing, online sports betting and more. Further, new business models and services such as direct-to-consumer (D2C), software-as-a-service (SaaS), fintech, the sharing economy and the Internet of Things (IoT) are enabling customers to do more online, resulting in significantly more customer interactions – and in turn, significantly more pressure on the databases behind the web and mobile applications they use.

Regardless of the industry, online businesses can face unprecedented scalability challenges – a mobile game going viral, a SaaS application becoming the market leader, successful Black Friday and Cyber Monday promotions. These scalability challenges stem from the fact that relational databases predate the digital era. Until recently, these scalability challenges required complex, expensive and incomplete workarounds, from sharding to hardware appliances to NoSQL. However, innovators like MariaDB have solved the problem with distributed SQL.



SCALE WITHOUT COMPROMISE

Xpand is a distributed SQL database. It guarantees data correctness with ACID transactions, provides high availability with fault tolerance and redundancy and supports a standard query language, ANSI SQL. However, unlike traditional relational databases, it provides unlimited scalability with a distributed, shared-nothing architecture. Xpand brings all of the characteristics businesses expect from a relational database (e.g., data integrity, reliability and standardized data access) to the digital era, and at any scale.

GROW OR SHRINK ON DEMAND

Xpand allows database resources (e.g., processors, memory and storage) to be added or removed on demand. If the workload is growing, or is expected to grow soon, database administrators (DBAs) can add more. If the workload is shrinking, or its peak has passed, DBAs can remove some.

While traditional databases are often overprovisioned in order to better accommodate future growth, Xpand allows businesses to reduce infrastructure costs by provisioning databases with just enough resources to handle the current workload at any given time – and avoid unnecessary costs (too many resources) or a poor customer experience (too few resources).

SURVIVE ANY FAILURE

Xpand assumes there will be hardware failures, particularly in the cloud where instances (i.e., virtual servers) can come and go, and automatically works around them. It maintains multiple copies of data, and ensures they are stored on different servers and racks (or instances and zones in the cloud). If copies of data are lost due to a failure, Xpand will automatically read and write copies stored elsewhere and replace the lost ones. Further, data can be continuously replicated between data centers (or regions in the cloud) for disaster recovery and global availability.

RUN AT OPTIMAL PERFORMANCE

Xpand was engineered to use resources as efficiently as possible, and continuously optimizes itself in order to maintain optimal performance. While there are multiple copies of data for high availability, only a single copy is cached in order to maximize the amount of data that can be stored in memory for fast reads. Further, if Xpand detects instances doing more work than the others, it will automatically move data around so all instances are doing the same amount of work.

Get started today by downloading a 45-day free trial of Xpand, or create a SkySQL account and get a $500 free credit to deploy an Xpand database.

Download Xpand - https://mariadb.com/downloads/#mariadb_platform-mariadb_xpand

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