



SERVERLESS KDB+

DATA SHEET

Instant Processing Capacity, **As You Need It.** **Automatically.**

THE KX ADVANTAGE

- In-memory computing supporting “compute then store” for instant results
- Low latency messaging for high-speed data capture and distribution
- Lambda/HTAP/Translytical for combined analysis of real-time and historical data
- In-memory data grid for high performance, distributed computing
- Optimized for time-series data using columnar storage and built-in temporal data types
- Single Integrated software stack for quicker, easier implementation and lower TCO

Serverless computing is a cloud-computing model by which your infrastructure team or your cloud service provider will run and manage physical infrastructure, dynamically allocating these resources by demand of the application itself.

Kdb+, with its small footprint, high performance profile, and elegant design makes it ideal for offloading certain aspects of time-series analysis to a serverless solution. Infrastructure is allocated at runtime, according to the amount of resources required by kdb+, rather than needing to pre-define units of capacity that may lie idle or dormant for long periods of time.

Benefits of Serverless kdb+ Include:

No hardware to provision - your kdb+ application will run without requiring you to provision or manage servers.

High Availability: Serverless kdb+ processes scale automatically with built-in high-availability and fault tolerance.

Continuous scaling: your application scales automatically and appropriately in sync with the size of changing workloads.

Cost per execution: Costs based on kdb+ execution time per function. There is no cost when kdb+ isn't running.

Serverless allows kdb+ developers to focus on the application logic. Building “serverless” means that kdb+ developers can focus on the core product instead of having to manage and operate virtual machines, physical machines or associated infrastructure.

The reduced overhead lets kdb+ developers reclaim time and energy that can be spent on developing services, especially where those applications have to dynamically scale and have demanding high-availability requirements.

For more information please contact: sales@KX.com or visit www.KX.com

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FEATURES

AWS Lambda is an event-driven, serverless computing platform. It runs code in response to events and automatically manages the computing resources required by that code.

Lambda can be described as a type of serverless Function-as-a-Service (FaaS). FaaS is one approach to building event-driven computing systems. It relies on functions as the unit of deployment and execution and provides provision-free scalability and built-in reliability.

Lambda functions can be triggered by a variety of events that occur on AWS or on supporting third-party services. They enable you to build reactive, event-driven systems. When there are multiple, simultaneous events to respond to, Lambda runs more copies of the function in parallel and scales with the size of the workload.

OPTIMAL PROCESSING

Parallel capable “on-demand”, workloads written for kdb+/q can easily fit into serverless. A business process that has to run in either intense batch load or requires an extract-translate-load process suits this model. This can allow kdb+ to offload services such as foreign data ingest into a serverless process that exists only to handle that data translation, then shuts down.

ON-DEMAND AVAILABILITY

Serverless is a programmatically friendly extension of the existing “on-demand” licensing model for kdb+. Only pay for what you use for a functional workload, but invoke workloads from the application logic in kdb+/q, and not from an infrastructure layer with fixed licenses.

LICENSING

Commercial licensing and support for kdb+ running in a serverless environment is now available. Whether or not you are an existing customer of KX, you may use serverless kdb+.

Kdb+ is now available in serverless mode on AWS Lambda

For more information please visit serverless.KX.com