EdgeKV – Serverless Data for EdgeWorkers

The amount of data created is increasing every day as more web experiences become personalized, and user-generated content grows.

Applications that call for reliable and millisecond-quick decisions are moving data sets to the edge. Processing and storing this "data in motion" means that data needs to be quickly accessed by an application to be useful. If an application must obtain data from a centralized data center or cloud, it can increase latency, and functions take longer to run.

EdgeKV

EdgeKV is Akamai's distributed key-value store that enables JavaScript developers to build data-driven EdgeWorkers applications. With EdgeKV, serverless applications can provide fast responses by locating data next to the application, negating the need to retrieve information from a cloud or on-premises solution.

Using EdgeKV

EdgeKV data is accessible directly from EdgeWorkers code or via administrative APIs. The following prerequisites are necessary to implement EdgeKV:

- Akamai delivery products on contract

- Entitlement for EdgeWorkers Dynamic Compute tier

Product Capabilities

- Eventual consistency: Distribute data writes globally within 10 seconds

- JavaScript helper library: Enable data operations on key-value databases inside EdgeWorkers code

- Administrative API: Control database functions outside EdgeWorkers code

- Command-line interface: Perform common, day-to-day EdgeKV operations without writing code against our administrative APIs

- Tokenized access: Enforce access control to EdgeKV databases

BENEFITS FOR YOUR BUSINESS

Read locally, write globally
EdgeKV has the ability to integrate written data globally within 10 seconds and read it close to where your users are, providing low latency and high availability

Simplicity
Invoke database functions with 1–2 lines of code; no complex query language or schema required for data access

High availability
Distributed architecture provides high resilience to failure, ensuring data is available when needed

Flexibility
Store many different data types: strings, arrays, lists, or nested JSON

"As a service" ergonomics
You don't have to be a database administrator — write code and access data without worrying about how it runs or scales

To learn more, visit akamai.com or contact your Akamai sales team.