

Serverless kdb+ - AWS Lambda Edition

AWS Lambda **requests** are counted each time one lambda starts executing. An AWS Lambda request is triggered in response to an event notification or an invoked call. This includes any test launches from the AWS console.

Serverless kdb+, runs under AWS lambda, and is supplied via the AWS application serverless repository. Charges for this kdb+ service are based on the number of **requests** for your kdb+ function and the **duration** of each request. In addition, you will always be charged by AWS for the AWS Lambda infrastructure and service fees.

The kdb+ “on demand license manager” is used to measure the usage of kdb+ AWS Lambdas.

Registered accounts for kdb+ serverless will be invoiced monthly for this service.

The first \$50 of metered usage per new account is free, and will be reflected in monthly invoicing.

Duration is calculated from the time your kdb+ lambda begins executing until it returns or otherwise terminates. We round up kdb+ billing to the nearest minute. Billing time is rounded up to each minute and any additional minute above the first is also rounded up to the nearest minute, thereafter. In the AWS Lambda resource model, you choose the amount of memory you want for your function, and are allocated proportional CPU power and other resources. An increase in memory size triggers an equivalent increase in CPU available to your function.

Note that All Lambda instances are hard terminated by AWS after 15 minutes, even if kdb+ is still running.

The table below contains the main examples of AWS and kdb+ fees:

Memory (MiB) per Lambda instance	AWS: Cost per 100mSecs of Duration*	Kx: Cost per Duration of one minute, or any fraction thereof, of runtime
128	\$0.0000002083	\$0.0016
512	\$0.0000008333	\$0.0016
1024	\$0.0000016667	\$0.0016
1536	\$0.0000025000	\$0.0016
2048	\$0.0000033333	\$0.0016
3008	\$0.0000048958	\$0.0016

*Additional AWS fees apply for other services

EXAMPLE: I run one kdb+ lambda. It runs across 100 segments of data deposited in 100 S3 objects. This triggers 100 invocations of kdb+ under AWS Lambda of size 512MB. It completes in 10 seconds warm and 15 seconds cold. Both are under 1 minute

Kdb+ fee: $\$0.0016 * 100 = \0.16 .

EXAMPLE: I run one kdb+ lambda. It runs across 64 segments of data distributed across 64 S3 objects. This triggers 64 invocations of kdb+ under AWS Lambda. It completes in 12 minutes, and requires 3GB RAM.

Kdb+ fee: $\$0.0016 * 64 * 12 = \1.22 .

After the first three months, the pricing model will be reviewed alongside customer feedback