Amazon Kinesis Data Streams pricing

Why Kinesis Data Streams?

Amazon Kinesis Data Streams is a fully managed, serverless streaming data service that makes it easy to elastically ingest and store logs, events, clickstreams, and other forms of streaming data in real time. Kinesis Data Streams uses simple pay-as-you-go pricing. Kinesis Data Streams has three modes—On-demand Standard, On-demand Advantage and provisioned—and all modes come with specific billing options. Click the following tabs to learn more about these options

AWS Pricing Calculator

Calculate your Amazon Kinesis Data Streams and architecture cost in a single estimate.

Create your custom estimate now

On-demand Standard | On-demand Advantage

With On-demand Standard, you pay per GB of data written and read from your data streams. You do not need to specify how much read and write throughput you expect your application to perform. Kinesis Data Streams instantly accommodates your workloads as they ramp up or down.

In on-demand mode, pricing is based on the volume of data ingested and retrieved along with a per-hour charge for each data stream in your account. There are additional charges for optional features: Extended data retention (beyond the first 24 hours and within the first seven days), Long-Term data retention (beyond seven days and up to one year), and Enhanced Fan-Out. You're also charged for each stream operating in the On-demand Standard mode in your account at an hourly rate.

On-demand Standard mode might be best if you create new data streams with unknown workloads, have unpredictable application traffic, or prefer not to manage capacity.

Key terms

Data-In: The data ingested into Kinesis Data Streams is billed per GB written into your data stream. This is calculated as the number of data records you send to the service, multiplied by the size of each record rounded up to the nearest 1 KB (1,024 bytes). For example, if your data records are 4.5 KB each, Kinesis Data Streams will count each record as 5 KB of data ingested. All the data ingested into Kinesis Data Streams is stored for 24 hours by default, and there are no additional charges.

Data-Out: The data retrieved from Kinesis Data Streams is billed per GB read from a data stream. This is calculated as the number of records retrieved multiplied by the size of each record. There is no rounding factor applied for this calculation. If your data records are 4.5 KB each, Kinesis Data Streams will count each one as 4.5 KB of data egressed.

Per-Stream: You're charged for each stream operating in the On-demand Standard mode in your account at an hourly rate.

Extended data retention: Kinesis Data Streams stores your data for 24 hours by default. Extended data retention gives you the option to extend the storage up to seven days. You're charged a GB- month rate for data stored beyond 24 hours, up to seven days.

Long-term data retention: Long-term data retention gives you the option to store your data stream up to 365 days. You're charged extended data retention rates for the first seven days and then charged a lower GB-month rate for data stored beyond seven days up to your specified retention period.

Enhanced fan-out: Enhanced fan-out improves read parallelism by providing each data consumer with their own read throughput per shard, up to 2 MB/second. When consumers use enhanced fan-out, they incur additional charges per GB of data retrieved.

Pricing by Region

Region:
Europe (London)

	Pricing
Per stream, per hour	$0.048
Data ingested, per GB (Includes 24-hour retention)	$0.095
Data retrievals, per GB	$0.048
Enhanced fan-out data retrievals, per GB	$0.06
Data stored, per GB-month (beyond 24 hours, up to 7 days)	$0.116
Data stored, per GB-month (beyond 7 days)	$0.024

Pricing example

Let's assume you send 1,000 records of streaming data per second, each record 3 KB in size, to an Amazon Kinesis Data Stream operating in On-demand Standard mode in US-East. You want to retain data for one day and process it using a single consumer. Your monthly charges are calculated as follows:

Record size of 3 KB, rounded up to the nearest 1 KB = 3 KB

Data ingested (GB per sec) = (1,000 records/sec * 3 KB/record) / 1,048,576 KB/GB = 0.00286 GB/sec

Data ingested (GB per month) = 30 days/month * 86,400 sec/day * 0.00286 GB/sec = 7,413.12 GB/month

Since you have one consumer:
Data retrieved (GB per sec) = 1 (consumer) * (1,000 records/sec * 3 KB/record) / 1,048,576 KB/GB = 0.00286 GB/sec

Data retrieved (GB per month) = 30 days/month * 86,400 sec/day * 0.00286 GB/sec = 7,413.12 GB/month

One-day retention is included in Data-Ingested charges.

The price in US-East is $0.08 per GB of data ingested

Data-in monthly charges = 7,413.12 GB * $0.08/GB = $593.04

The price in US-East is $0.040 per GB of data retrievals

Data-out monthly charges = 7,413.12 GB * $0.040/GB = $296.50

Since the stream is for used for 30 days in the month:
Per-stream charges = 30 * 24 * 0.040 (rate) = $28.80

Total monthly charges = $593.04 + $296.50 + $28.80 = $918.34

** AWS does not charge for data transfer from your data producers to Amazon Kinesis Data Streams, or from Amazon Kinesis Data Streams to your consuming applications if all the resources are in the same region.*

** AWS does not charge for data transfer if your data producers are writing to a Kinesis Data Stream in a different region. In the On-Demand mode, you incur additional charges if your consuming applications are reading data from a data stream in a different AWS region. You will be billed at standard AWS Data Transfer Charges.*

** Please note that Amazon Kinesis Data Streams is NOT currently available in AWS Free Tier. AWS Free Tier is a program that offers a free trial for a group of AWS services. For more details about AWS Free Tier, see AWS Free Tier.*

Provisioned Mode

Service Level Agreement

Learn about the Amazon Kinesis Data Streams Service Level Agreement by visiting our FAQs.

Get started with Amazon Kinesis Data Streams

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