Demystifying Amazon Kinesis

As teams increasingly move into the cloud with Amazon Web Services, getting a handle on some of the available tools can be a challenge. Amazon Kinesis is a managed, dynamically scalable service that allows users to continuously collect, store, and process streaming data.

Get started with this breakdown of Kinesis Streams.

KINESIS STREAMS

The Customizable Approach

Kinesis Streams is best for users who want to build custom applications to process or analyze streaming data for specialized needs. Data can be sent to real-time dashboards, used to generate alerts, implement dynamic pricing and advertising strategies, and more.

KINESIS FIREHOSE

The Simple Solution

Kinesis Firehose is ideal for users who want to load streaming data from a web app, mobile app, or telemetry system directly into AWS storage systems to process streaming data. There is no need to write applications or manage resources.

Scaling is possible from a single megabyte up to terabytes per hour	Scaling is possible to gigabytes per second and allows for batching, encrypting, and compressing of data
The appropriate number of shards must be provisioned for your stream to handle the volume of data you expect to process	Automatically scales to meet demand
Data can be loaded using HTTPS, the Kinesis Producer Library, the Kinesis Client Library, and the Kinesis Agent	Data can be loaded using HTTPS, the Kinesis Producer Library, the Kinesis Client Library, and the Kinesis Agent
Data is available in a stream for 24 hours, but can be made available for up to 7 days for an additional charge	Data can be streamed to S3, Elasticsearch Service, and Redshift and can then be copied to other services for further processing and analysis
Monitoring is available through Amazon Cloudwatch and Kinesis Analytics	Monitoring is available through Amazon Cloudwatch and Kinesis Analytics

UTILIZING KINESIS ANALYTICS

The Kinesis Analytics service enables Kinesis Streams and Kinesis Firehose users to create and run SQL queries on streaming data and send it to third party analytics tools for monitoring and alerting.

Point Kinesis Analytics at an incoming data stream

Write your SQL queries

Specify where you want to load the results

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Sumo Logic's cloud-native service provides advanced analytics and allows you to overlay time-series metrics over logs and events so you can visualize your entire application stack in real-time starting from a single dashboard. Set alerts to notify you of outliers, and use advanced tools to drill down and find patterns in your data.

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