



Easily collect, process, and analyze video and data streams in real-time

Easy to collect, process, and analyze real-time, streaming data so you can get timely insights and react quickly to new information.

Offers key capabilities to cost-effectively process streaming data at any scale, along with the flexibility to choose the tools that best suit the requirements of your application.

You can ingest real-time data such as video, audio, application logs, website click-streams, and IoT telemetry data for machine learning, analytic, and other applications.

Enables you to process and analyze data as it arrives and respond instantly instead of having to wait until all your data is collected before the processing can begin.

Amazon Kinesis Benefits:

- **Real-time**

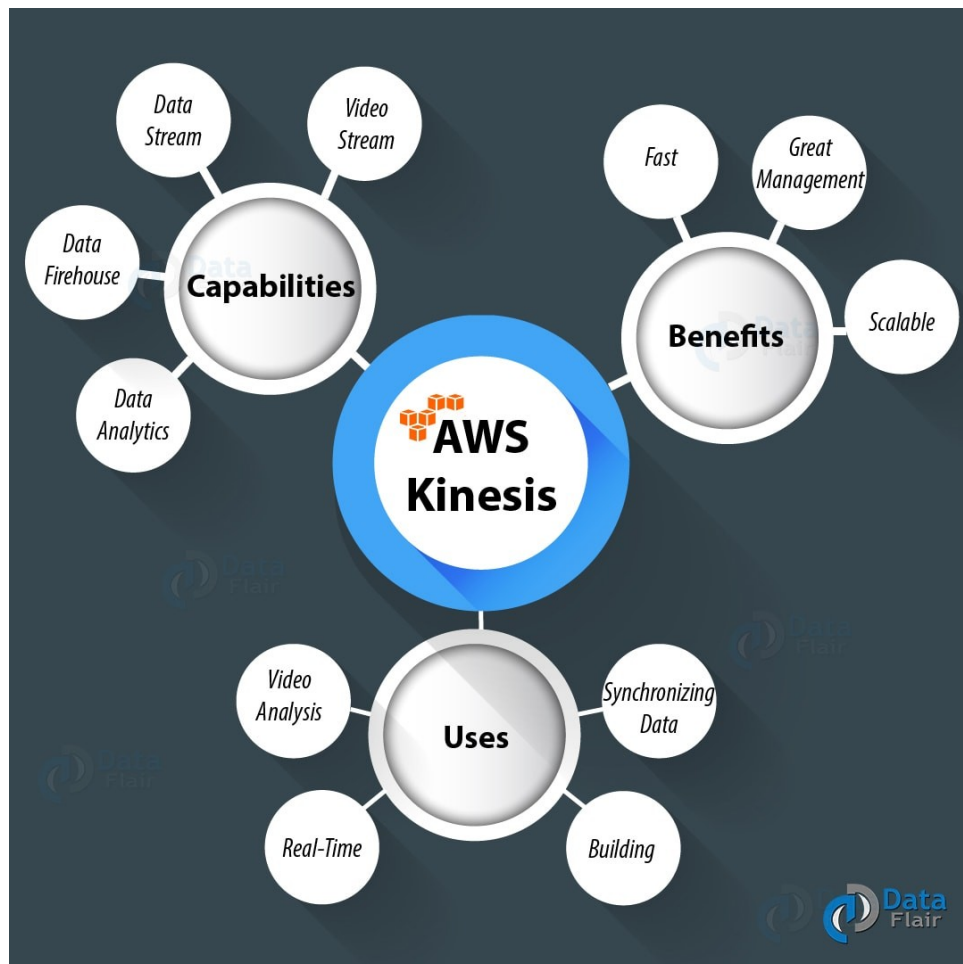
Amazon Kinesis can handle any amount of streaming data and process data from hundreds of thousands of sources with very low latencies.

- **Fully managed**

Amazon Kinesis is fully managed and runs your streaming applications without requiring you to manage any infrastructure.

- **Scalable**

Amazon Kinesis can handle any amount of streaming data and process data from hundreds of thousands of sources with very low latencies.



Amazon Kinesis' Core capabilities:

Kinesis Video Streams

Amazon Kinesis video streams make it easy to securely stream video to AWS from connected devices for analytics, machine learning (ML), Playback, and other processing.

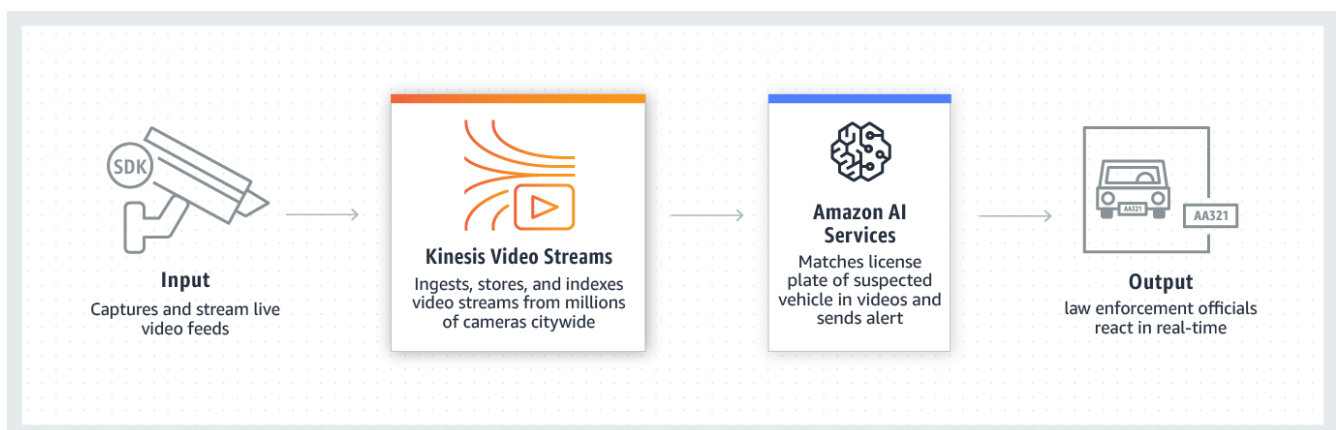
Kinesis Video Streams automatically provide all the infrastructure needed to consume streaming video data from millions of devices.

It prolongs, encrypts, and encodes video data in your streams, and allows you to access your data through easy-to-use APIs.

Kinesis Video Streams enables live and on-demand video and quickly integrates with Amazon Recognition Video to create applications that can use computer vision and video analytics, as well as libraries for ML architecture such as Apache MXNet, TensorFlow, and OpenCV.

Kinesis Video Streams also supports WebRTC, an open-source project that enables real-time media streaming and communication between web browsers, mobile applications, and connected devices via simple APIs.

Typical applications include video chat and peer-to-peer media streaming.



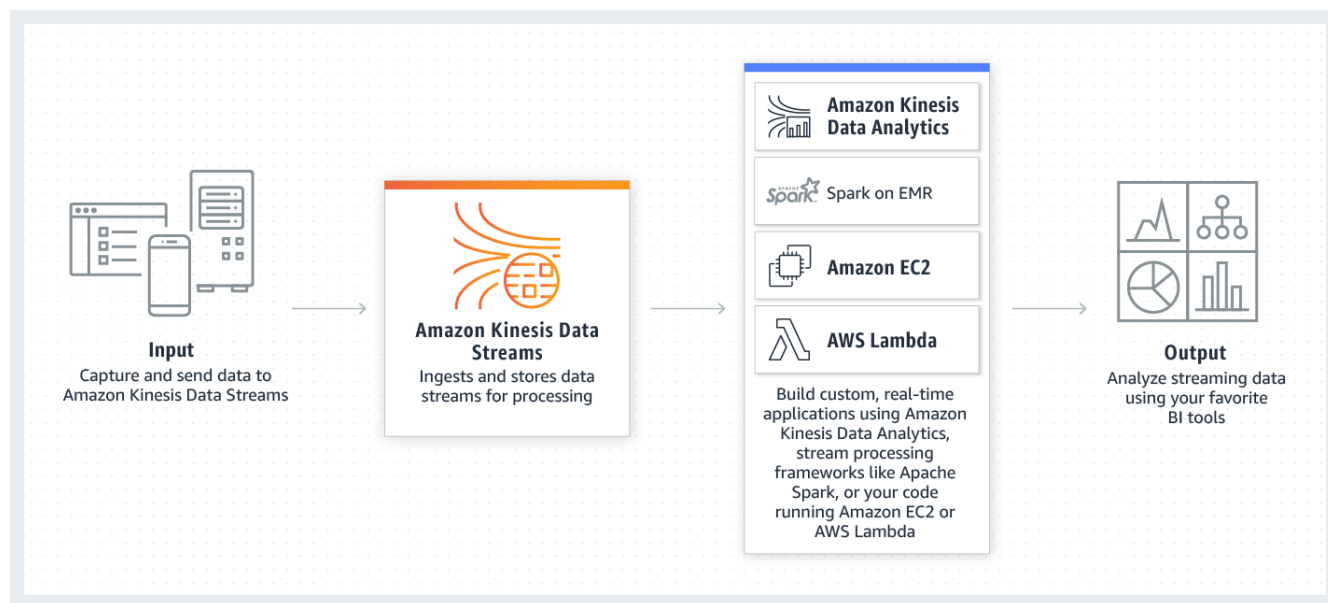
Kinesis Data Streams

KDS is a highly scalable and durable real-time data streaming service.

Kinesis Data Streams can continuously capture gigabytes of data per second from hundreds of thousands of sources, such as website clickstreams, and database event streams, financial transactions, social media feeds, IT records, and location-tracking events.

Data collected in milliseconds is available for real-time analytics such as real-time dashboards, real-time anomaly detection, dynamic pricing, and more.

[Video to know what is Amazon Kinesis Data Streams?](#)

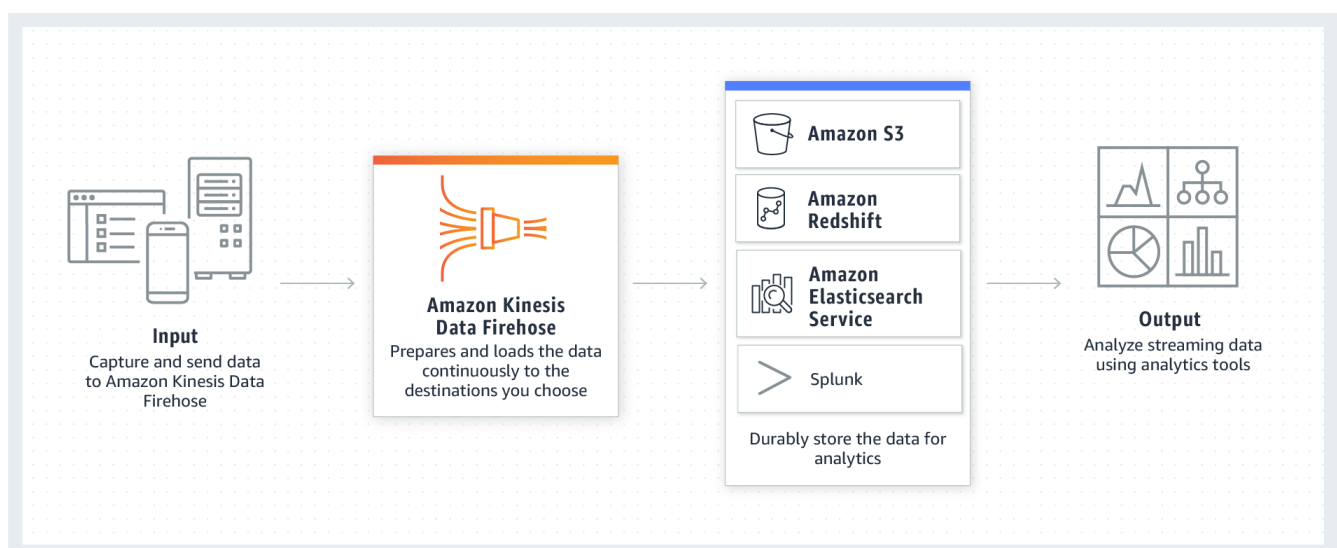


Kinesis Firehose

Amazon Kinesis Data Firehose is the easiest way to reliably load streaming data into data lakes, data stores, and analytics services. It can capture, transform, and deliver streaming data to Amazon S3, Amazon Redshift, Amazon Elasticsearch Service, generic HTTP endpoints, and service providers like Datadog, New Relic, MongoDB, and Splunk. It is a fully managed service that automatically scales to match the throughput of your data and requires no ongoing administration. It can also batch, compress, transform, and encrypt your data streams before loading, minimizing the amount of storage used and increasing security.

You can easily create a Firehose delivery stream from the [AWS Management Console](#), configure it with a few clicks, and start ingesting streaming data from hundreds of thousands of data sources to your specified destinations. You can also configure your data streams to automatically convert the incoming data to open and standards based formats like Apache Parquet and Apache ORC before the data is delivered.

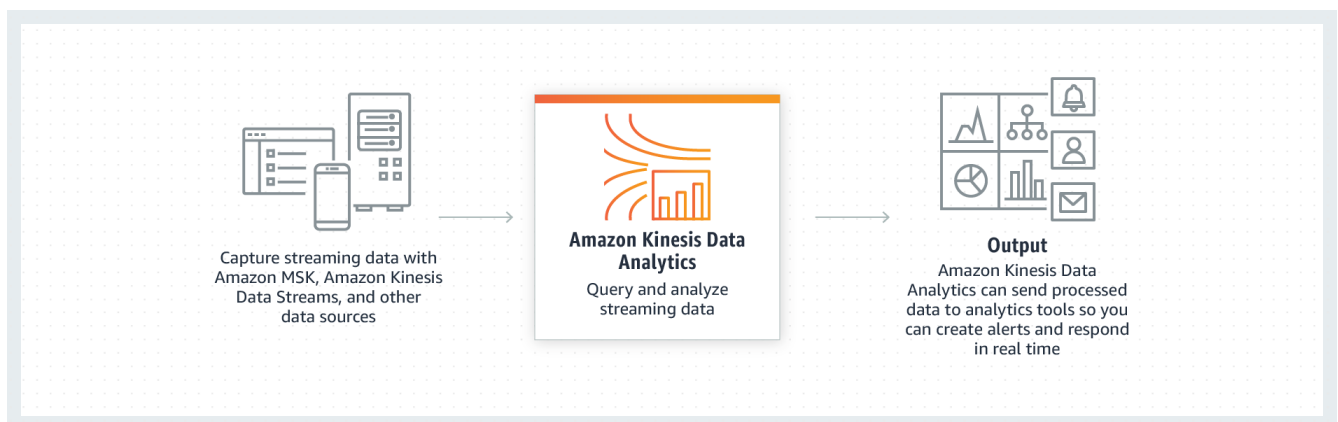
With Amazon Kinesis Data Firehose, there is no minimum fee or setup cost. You pay for the amount of data that you transmit through the service, if applicable, for converting data formats, and for Amazon VPC delivery and data transfer.



Kinesis Analytics

Amazon Kinesis Data Analytics is the easiest way to transform and analyze streaming data in real time with Apache Flink. Apache Flink is an open source framework and engine for processing data streams. Amazon Kinesis Data Analytics reduces the complexity of building, managing, and integrating Apache Flink applications with other AWS services.

Amazon Kinesis Data Analytics takes care of everything required to run streaming applications continuously, and scales automatically to match the volume and throughput of your incoming data. With Amazon Kinesis Data Analytics, there are no servers to manage, no minimum fee or setup cost, and you only pay for the resources your streaming applications consume.



Source: [Amazon Web Services](#).
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