

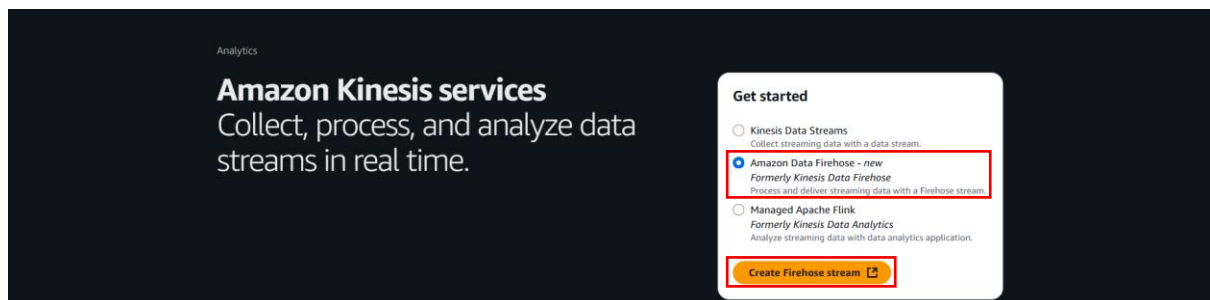
Creating Data Firehose Stream

To Begin with Lab

Summary of the Lab

In this lab, you create an **Amazon Kinesis Data Firehose stream** to automatically deliver data from a **Kinesis Data Stream** to an **S3 bucket**. You configure the source as the existing Kinesis stream and the destination as S3, keeping all default settings. After creating the Firehose stream, you test it by sending demo data and then verify successful data delivery in the S3 bucket.

- **Prerequisites**
 - An existing **Kinesis Data Stream** (e.g., myfirstdatastream)
 - An existing **S3 bucket** to use as the destination
- Log in to your **AWS Management Console**.
- In the search bar, type **Kinesis** and open **Amazon Kinesis**.
- In the left menu, select **Amazon Data Firehose**.
- Click **Create Firehose stream**.



- Under **Source**, select **Amazon Kinesis Data Stream**.
- Under **Destination**, select **Amazon S3**.

Choose source and destination
Specify the source and the destination for your Firehose stream. You cannot change the source and destination of your Firehose stream once it has been created.

Source | Info
Amazon Kinesis Data Streams

Destination | Info
Amazon S3

- Enter a **Stream name**, for example: KDS-Test-S3-Stream.
- Review all settings and leave them on default.

Firehose stream name
Firehose stream name
KDS-S3-aszx

Acceptable characters are uppercase and lowercase letters, numbers, underscores, hyphens, and periods.

- To choose the Kinesis data stream, click on browse.

- choose your existing data stream (e.g., myfirstdatastream).

Source settings

Kinesis data stream

arn:aws:kinesis:us-east-1:463646775279:stream/myfirstdatastream

Format: arn:aws:kinesis:[Region]:[AccountId]:stream/[StreamName]

[Browse](#) [Create](#)

Choose Kinesis data stream

Kinesis data streams (1/1)

Find Kinesis data streams

Name	Status
myfirstdatastream	Active

[Cancel](#) [Choose](#)

- In destination settings, choose the s3 bucket by clicking on the browser

Destination settings [Info](#)

Specify the destination settings for your Firehose stream.

S3 bucket

s3://kinesis-target-bucket01

Format: s3://bucket

[Browse](#) [Create](#)

New line delimiter

You can configure your Firehose stream to add a new line delimiter between records in objects that are delivered to Amazon S3.

☒ Not enabled

☐ Enabled

Dynamic partitioning [Info](#)

Dynamic partitioning enables you to create targeted data sets by partitioning streaming S3 data based on partitioning keys. You can partition your source data with inline parsing and/or the specified AWS Lambda function. You can enable dynamic partitioning only when you create a new Firehose stream. You cannot enable dynamic partitioning for an existing Firehose stream. Enabling dynamic partitioning incurs additional costs per GiB of partitioned data. For more information, see [Amazon Data Firehose pricing](#).

☒ Not enabled

☐ Enabled

S3 bucket prefix - optional

By default, Amazon Data Firehose appends the prefix "YYYY/MM/dd/HH" (in UTC) to the data it delivers to Amazon S3. You can override this default by specifying a custom prefix that includes expressions that are evaluated at runtime.

Enter a prefix

You can repeat the same keys in your S3 bucket prefix. Maximum S3 bucket prefix characters: 1024.

Choose a bucket in Amazon S3

Buckets (1/3)

Find buckets

Name	Region
amazon-hdmi01	Asia Pacific (Mumbai)
amazon-webcartdemo1	Asia Pacific (Mumbai)
kinesis-target-bucket01	United States (N. Virginia)

[Cancel](#) [Choose](#)

- Click Create Firehose stream.
- Once the stream is created, Under **Test with demo data** on the Firehose dashboard, Click **Start sending demo data**.
- Wait a few seconds to allow data to flow through.
- Click **Stop sending demo data** once some records are sent.

▼ Test with demo data [Info](#)

Ingest simulated data to test the configuration of your Firehose stream. Standard Amazon Data Firehose charges apply.

This test runs a script in your browser to put demo data in your Amazon Data Firehose stream, which sends to your Amazon S3 destination.

```
1 {
2   "TICKER_SYMBOL": "QXZ",
3   "SECTOR": "HEALTHCARE",
4   "CHANGE": -0.05,
5   "PRICE": 84.51
6 }
```

Step 1

Start sending demo data to your Firehose stream. If you already have data streaming to this destination, demo data is sent along with your source records.

[Start sending demo data](#)

Step 2

Stop sending demo data to your Firehose stream after you've concluded your test to stop incurring usage charges.

[Stop sending demo data](#)

- Open the **S3 Console**.
- Navigate to the bucket you selected as the Firehose destination.
- You should see new files created by Firehose.
- Download one of the files and open it to verify that the data from the test has been delivered successfully.

Amazon S3 > Buckets > kinesis-target-bucket01 > 2025/ > 10/ > 24/ > 13/

Amazon S3

General purpose buckets

Directory buckets

Table buckets

Vector buckets

Access Grants

Access Points (General Purpose Buckets, FSx file systems)

Access Points (Directory Buckets)

Object Lambda Access Points

Multi-Region Access Points

Batch Operations

IAM Access Analyzer for S3

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Objects Properties

Objects (1)

Objects are the fundamental entities stored in Amazon S3. You can use [Amazon S3 inventory](#) to get a list of all objects in your bucket. For others to access your objects, you'll need to explicitly grant them permissions. [Learn more](#)

Find objects by prefix

<input type="checkbox"/>	Name	Type	Last modified	Size	Storage class
<input type="checkbox"/>	KDS-S3-aszx-1-2025-10-24-13-19-17-b2383eca-ac7b-43f6-bcc1-94932457351d	-	October 24, 2025, 18:54:18 (UTC+05:30)	35.0 KB	Standard

```
[{"CHANGE":4.05,"PRICE":100.54,"TICKER_SYMBOL":"DFT","SECTOR":"RETAIL"}, {"CHANGE":8.34,"PRICE":109.29,"TICKER_SYMBOL":"NFS","SECTOR":"ENERGY"}, {"CHANGE":-2.52,"PRICE":215.52,"TICKER_SYMBOL":"QWE","SECTOR":"TECHNOLOGY"}, {"CHANGE":-0.11,"PRICE":19.27,"TICKER_SYMBOL":"PLM","SECTOR":"FINANCIAL"}, {"CHANGE":2.46,"PRICE":54.61,"TICKER_SYMBOL":"QXZ","SECTOR":"RETAIL"}, {"CHANGE":19.5,"PRICE":224.5,"TICKER_SYMBOL":"HJV","SECTOR":"ENERGY"}, {"CHANGE":0.99,"PRICE":102.62,"TICKER_SYMBOL":"ADPL","SECTOR":"TECHNOLOGY"}, {"CHANGE":0.1,"PRICE":2.1,"TICKER_SYMBOL":"SED","SECTOR":"HEALTHCARE"}, {"CHANGE":0.33,"PRICE":8.41,"TICKER_SYMBOL":"WSB","SECTOR":"RETAIL"}, {"CHANGE":0.86,"PRICE":31.04,"TICKER_SYMBOL":"PJM","SECTOR":"RETAIL"}, {"CHANGE":0.57,"PRICE":14.7,"TICKER_SYMBOL":"VVS","SECTOR":"ENERGY"}, {"CHANGE":0.79,"PRICE":20.56,"TICKER_SYMBOL":"MMB","SECTOR":"ENERGY"}, {"CHANGE":0.02,"PRICE":15.11,"TICKER_SYMBOL":"NGC","SECTOR":"HEALTHCARE"}, {"CHANGE":0.77,"PRICE":34.08,"TICKER_SYMBOL":"VYV","SECTOR":"HEALTHCARE"}, {"CHANGE":2.49,"PRICE":98.05,"TICKER_SYMBOL":"DFT","SECTOR":"RETAIL"}, {"CHANGE":1.04,"PRICE":66.84,"TICKER_SYMBOL":"ASD","SECTOR":"FINANCIAL"}, {"CHANGE":0.35,"PRICE":15.46,"TICKER_SYMBOL":"NGC","SECTOR":"HEALTHCARE"}, {"CHANGE":1.54,"PRICE":545.51,"TICKER_SYMBOL":"UHI","SECTOR":"FINANCIAL"}, {"CHANGE":2.54,"PRICE":100.59,"TICKER_SYMBOL":"DFT","SECTOR":"RETAIL"}, {"CHANGE":0.84,"PRICE":111.37,"TICKER_SYMBOL":"WSB","SECTOR":"FINANCIAL"}, {"CHANGE":0.02,"PRICE":5.79,"TICKER_SYMBOL":"DEG","SECTOR":"ENERGY"}, {"CHANGE":15.51,"PRICE":92.25,"TICKER_SYMBOL":"QXZ","SECTOR":"HEALTHCARE"}, {"CHANGE":0.69,"PRICE":25.46,"TICKER_SYMBOL":"ABC","SECTOR":"RETAIL"}, {"CHANGE":1.62,"PRICE":18.94,"TICKER_SYMBOL":"MMB","SECTOR":"ENERGY"}, {"CHANGE":-4.23,"PRICE":96.36,"TICKER_SYMBOL":"DFT","SECTOR":"RETAIL"}, {"CHANGE":-2.71,"PRICE":67.8,"TICKER_SYMBOL":"WMT","SECTOR":"RETAIL"}]
```