

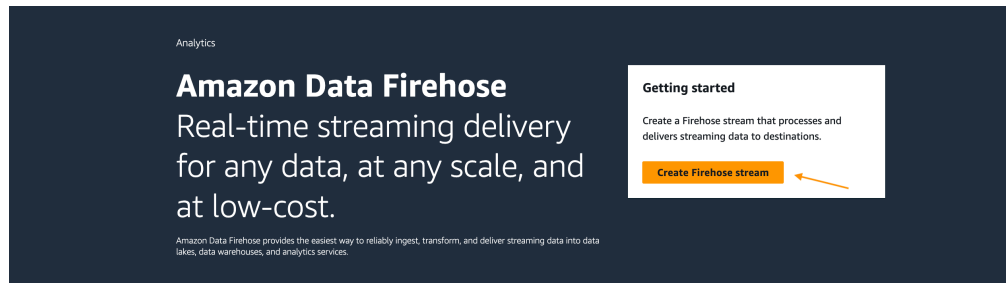
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Deliver data

Setup Amazon Firehose Stream

In this section, you will create a new Amazon Data Firehose Stream that will be used to stream processed game data from a Kinesis Data Stream.

1. Navigate to the Amazon Data Firehose [Console](#) and select **Create Firehose Stream**.



2. For Source, choose Amazon Kinesis Data Stream. Choose Amazon S3 as Destination.

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

3. Click on Browse button in Source settings and select **playerkillratio** as Kinesis data stream.

Choose Kinesis data stream

Kinesis data streams (1/2)

☐

data2dashboard

Active

☒

playerkillratio

Active

Cancel

Choose

4. Change Firehose stream name as **gameanalysis-kds-firehose**.

Firehose stream name

Firehose stream name

gameanalysis-kds-firehose

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

5. Select S3 bucket starts with game-processed-data-*

Choose a bucket in Amazon S3

Buckets (95)

game-processed-data

1 match

Name

Region

game-processed-data-cde33

US East (N. Virginia)

Cancel

Choose

6. Add S3 bucket prefix as per below and select **Create Firehose stream**

For S3 prefix, copy and paste the following:

```
year={!timestamp:YYYY}/month={!timestamp:MM}/day={!timestamp:dd}/
```



For S3 error prefix copy and paste the following:

```
!{firehose:error-output-type}/year={!timestamp:YYYY}/month={!timestamp:MM}/day={!timestamp:dd}/
```



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.

year={!timestamp:YYYY}/month={!timestamp:MM}/day={!timestamp:dd}/

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

S3 bucket error output prefix - optional

You can specify an S3 bucket error output prefix to be used in error conditions. This prefix can include expressions for Amazon Data Firehose to evaluate at runtime.

!{firehose:error-output-type}/year={!timestamp:YYYY}/month={!timestamp:MM}/day={!timestamp:dd}/

S3 bucket and S3 error output prefix time zone

Info

Choose a time zone that you want to use for date and time in S3 prefixes

UTC

7. Change Buffer interval to 30 second and select Compression for data records as GZIP.

https://catalog.us-east-1.prod.workshops.aws/event/dashboard/en-US/workshop/5-lab3/preparation

2/3

▼ Buffer hints, compression, file extension and encryption

The fields below are pre-populated with the recommended default values for S3. Pricing may vary depending on storage and request costs.

S3 buffer hints

Amazon Data Firehose buffers incoming records before delivering them to your S3 bucket. Record delivery is triggered once the value of either of the specified buffering hints is reached.

Buffer size

The higher buffer size may be lower in cost with higher latency. The lower buffer size will be faster in delivery with higher cost and less latency.

MiB

Minimum: 1 MiB, maximum: 128 MiB. Recommended: 5 MiB.

Buffer interval

The higher interval allows more time to collect data and the size of data may be bigger. The lower interval sends the data more frequently and may be more advantageous when looking at shorter cycles of data activity.

seconds

Minimum: 0 seconds, maximum: 900 seconds. Recommended: 300 seconds.

Compression for data records

Amazon Data Firehose can compress records before delivering them to your S3 bucket.

☐ Not enabled

☒ GZIP

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☐ Zip

☐ Hadoop-Compatible Snappy

File extension format - optional

Enter the full extension format. If you want to add 'gzip file extension' for your 'json' files, enter 'json.gz'

File extension must start with a period and may only contain allowed characters: 0-9a-z!-_.*(). File extension cannot exceed 128 characters.

8. Click on **Create Firehose stream**.

Encryption for data records

Record gets encrypted in the S3 bucket using an AWS Key Management Service (KMS) key.

☒ Use the encryption setting of the S3 bucket

Default encryption for S3 bucket is server-side encryption with Amazon S3 managed keys (SSE-S3). See [S3: Protecting data with server-side encryption](#) for other encryption options.

☐ Use SSE-KMS

Server-side encryption with AWS Key Management Service (KMS) keys.

► **Advanced settings**

Server-side encryption not enabled; error logging enabled; IAM role KinesisFirehoseServiceRole-gameanalysis--us-east-1-1719241585105; no tags.

Cancel

Create Firehose stream

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