Pull and Consume Data from Stream

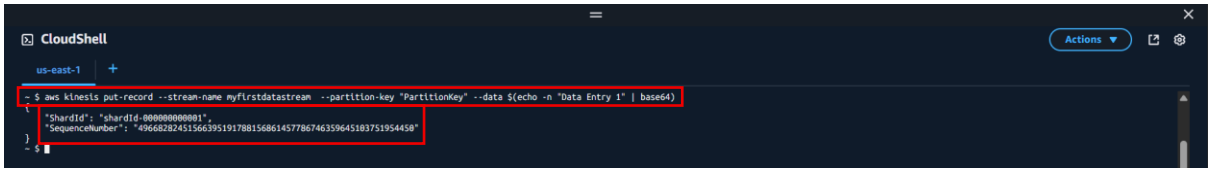
To Begin with the Lab

Summary of the Lab

This lab demonstrates how to pull and consume data from an AWS Kinesis Data Stream using the AWS CLI. You manually send records to the stream, retrieve the ShardIterator, and then use it to fetch records. The output displays shard details and encoded data, which can be decoded to view the original record contents.

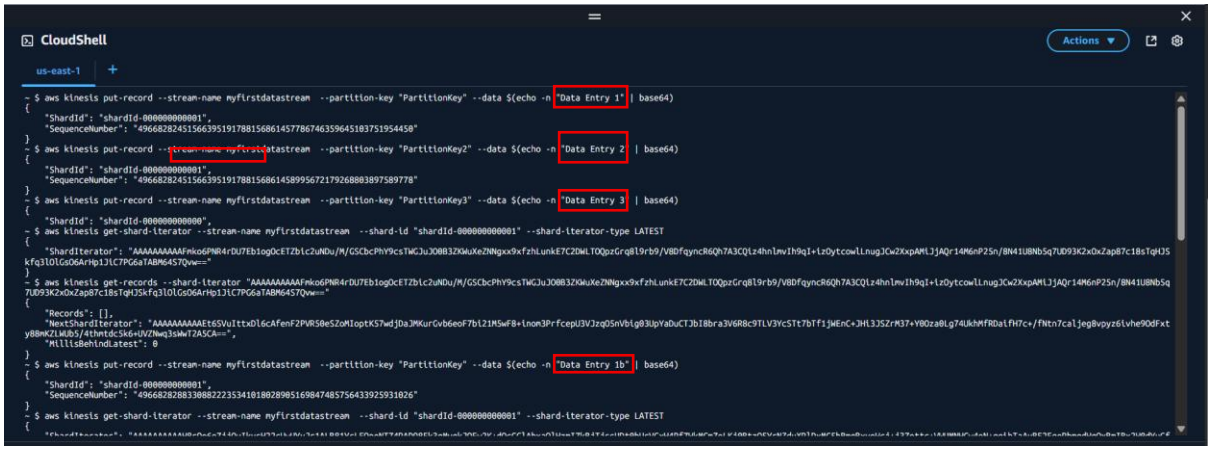
- **Prerequisite**
  - An **active Kinesis Data Stream** (e.g., my-first-data-stream) created earlier.
  - The **AWS CLI** installed and configured (aws configure).
  - Necessary IAM permissions for Kinesis operations (AmazonKinesisFullAccess).
- We will manually send records into your stream using the **AWS CLI**.

- The output will include:
- ShardId: the shard receiving the data
- SequenceNumber: unique identifier within the shard



- Use this command to get the ShardIterator and make sure to change your shard-id
- aws kinesis get-shard-iterator --stream-name myfirstdatastream --shard-id "shardId-000000000001" --shard-iterator-type LATEST

- And to get your record use the command
  Change your "YourShardIterator" to the real ShardIterator that you get form the previous command
- aws kinesis get-records --shard-iterator "ShardIterator"
- After running the command, you will get the output with the records.



- There was an entry that we have decoded

- Copy and paste the Data Value here and click on the Decode.