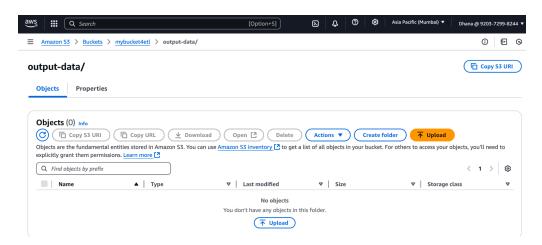
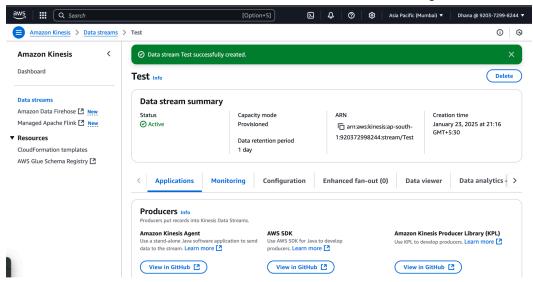
For real-time streaming, we are using **Kinesis Data Generator**.

First, we will create an S3 folder named **output-data**, as shown below. Next, we will create an IAM role with full access to **AWS Glue**, **Kinesis**, **Athena**, and **S3**.

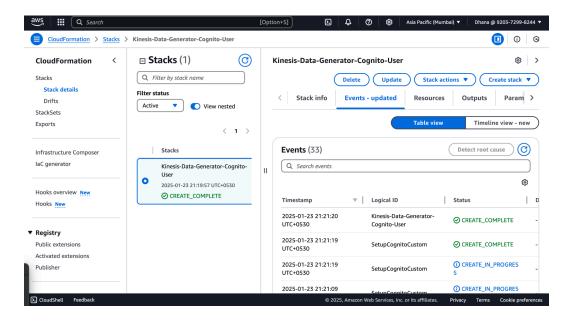


We will create a **Kinesis Data Stream** for real-time data streaming.



Next, we will create a **Cognito user** for **Kinesis Data Generator** using a CloudFormation stack. You can use the following link to create it:

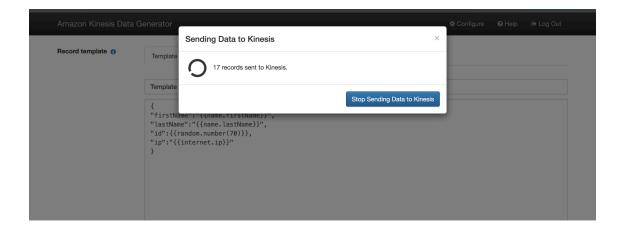
https://awslabs.github.io/amazon-kinesis-data-generator/web/help.html



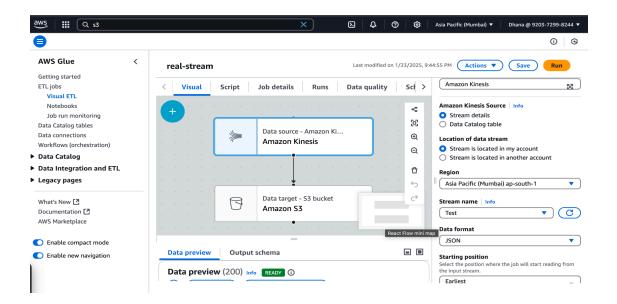
Once the stack creation is complete, log in to **Kinesis Data Generator using the link from Resources tab in CloudFormation** and start streaming data.

Use the following code for data generation:

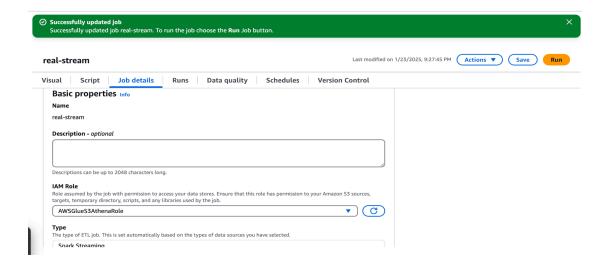
```
{
"firstName":"{{name.firstName}}",
"lastName":"{{name.lastName}}",
"id":{{random.number(70)}},
"ip":"{{internet.ip}}"
}
```



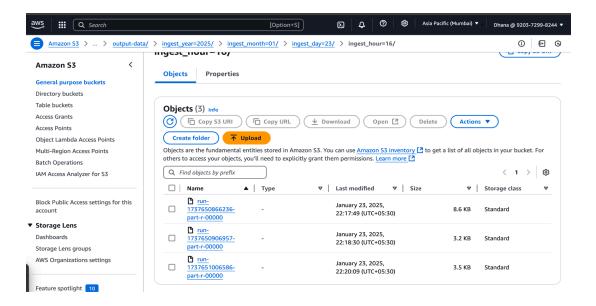
Now, create a **Glue job** with the **source** set to the Kinesis Data Stream we created, and the **target** set to the S3 location.



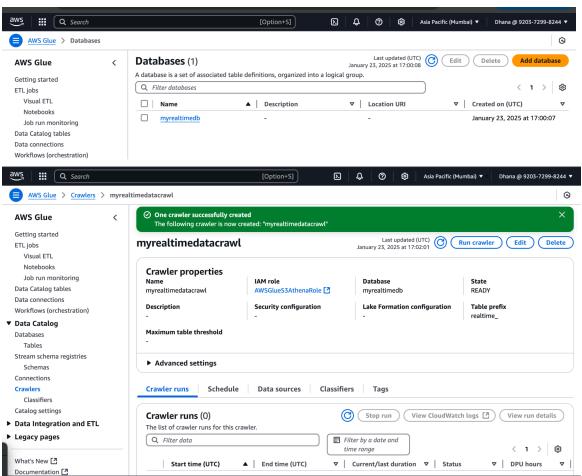
Edit job Details and Run the job.



Once job is completed we should see the files placed in S3 from streaming data.



Next, we will create a database in Glue and then create Crawler and run the crawler for table creation.



And then Use Athena to query the data

