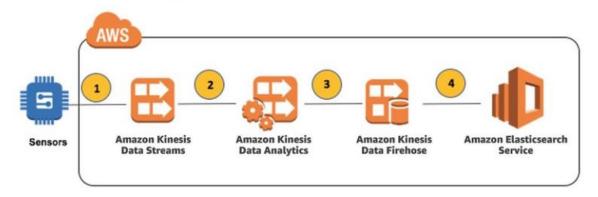
Solution overview

The following diagram depicts a high-level overview of this solution.



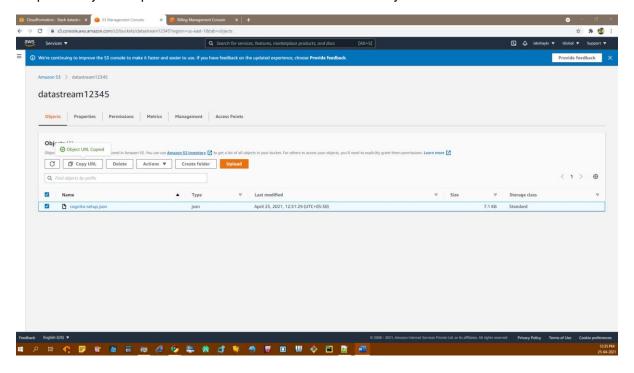
Steps to perform:

- 1. Create Kinesis delivery stream
- 2. Simulate streaming application to detect anomalies
- 3. Open Elasticsearch service and create a new domain
- 4. Configure Kinesis Firehose to export the results to Amazon ES
- 5. Update the buffer size and existing IAM role for the process
- 6. Open the Amazon Kinesis Analytics console and create a new application
- 7. Connect to the source for further analysis
- 8. Launch SQL_Editor and start the application
- 9. Load the processed data into Kinesis Firehose delivery stream
- 10. Visualize the data using Kibana

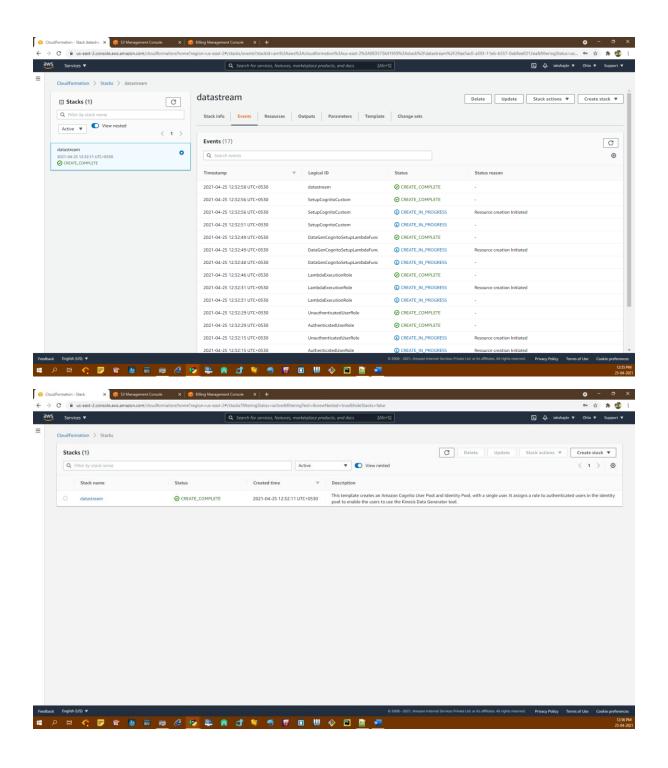
Note: All the below steps performed in my Personal AWS Account .

1. Below in the .json script which I used to create the KDG"Kinesis Data Genarator" and Congnito(Kinesis Data Genarator-Usrs) /Identities pool

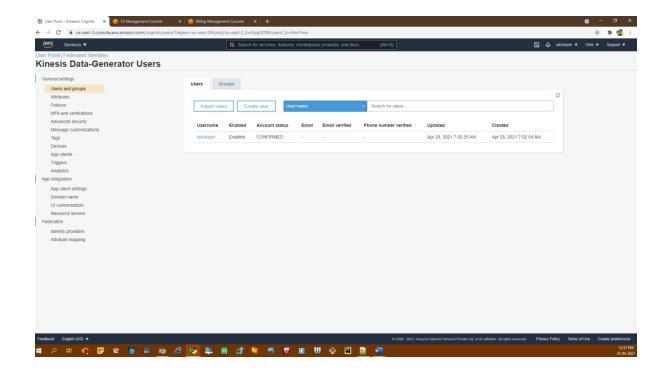
2. Uploaded .json script in the S3 Account and make the that Object Public accessible



3.Upload the .json template from the S3 to Cloud Formation and created the Stack to setup the KDG Account and Congito account with users

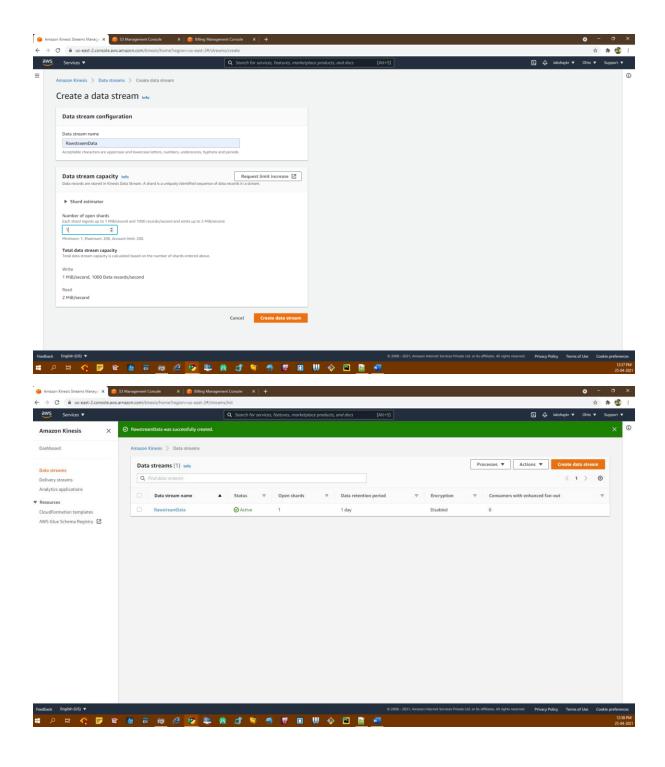


4. Successfully created the KDG-Users and Identities Pool and added user "iakshaykr" which will help later to login into the Kibana (ES)

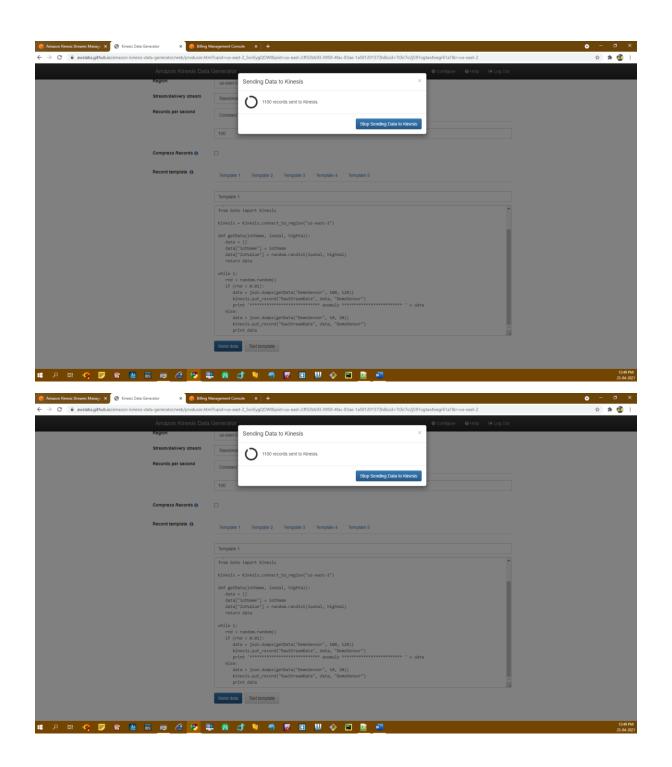


Kinesis Data Stream:

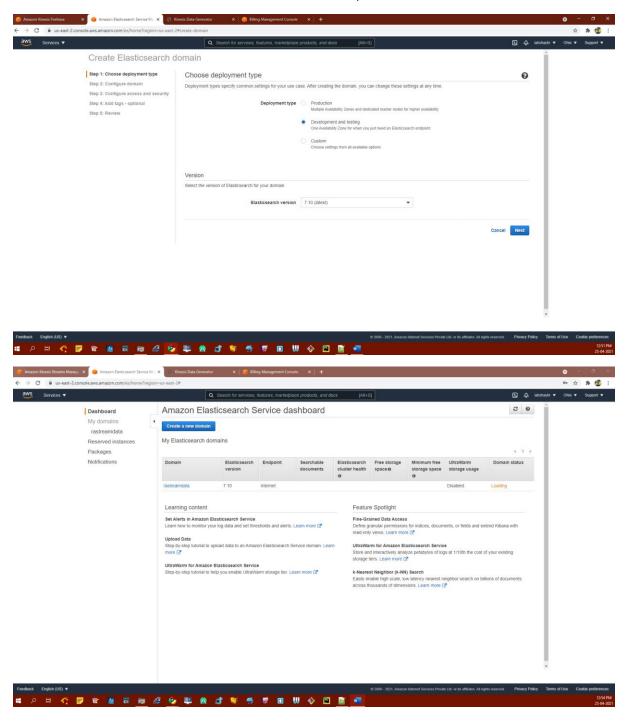
5. Created the Data Stream to get the Generated data from "Kinesis Data Generator" Taken 1 Shard only.



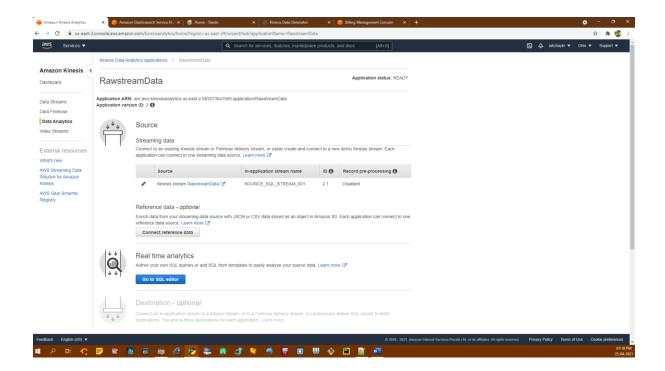
5. Sending the Data from Kinesis Data Generator to "RawStreamData" which is a Kinesis Data Stream



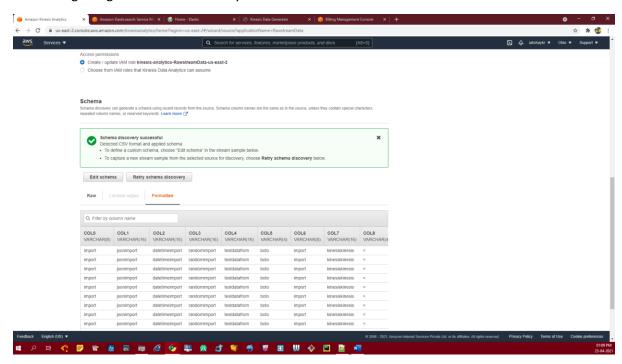
6. Created the Elasticsearch Domain which is used to setup the Kibana and as well Kinesis Firehouse .



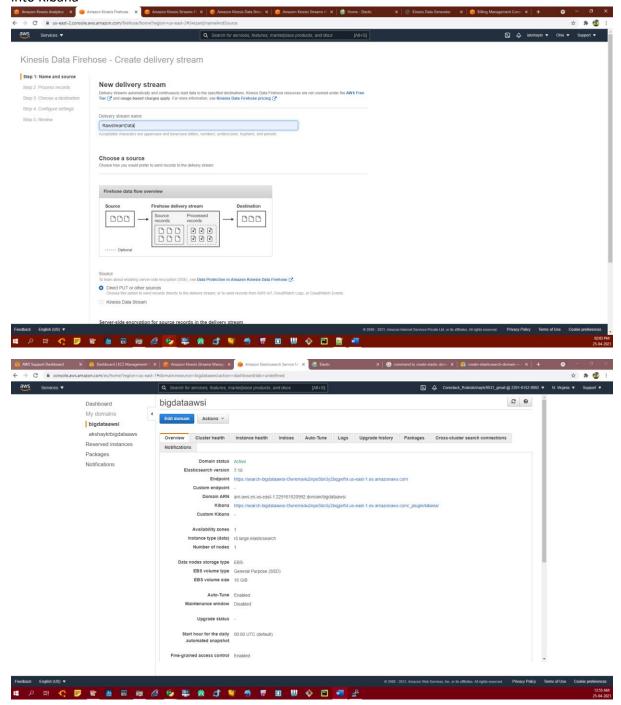
7. Created the Data Analytics to visualize the incoming data/throughput



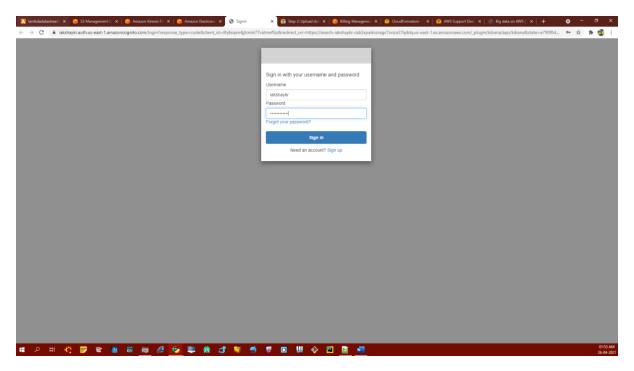
7. Data is getting to Kinesis Data Analytics from source Kinesis Data Stream



8. Setting up the Kinesis Firehouse to deliver the stream data to Elasticsearch domain to visualize into Kibana



9. Login into Kibana using the congnito user which we have created in setup 2nd and 3rd using Kinesis Data Generators-User and Identities



10.Loggedin successfully into Kibana to visualize the data coming from data-firehouse which is worked as a delivery system .

