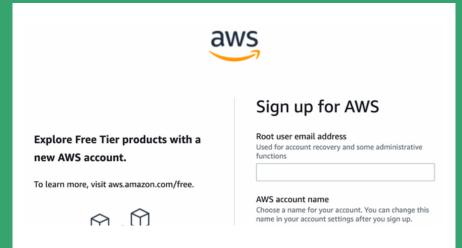
Presentation on Amazon Kinesis Data Stream

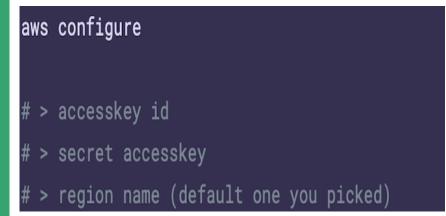
By
Tife Olatunji
Sharon Mbaegbu



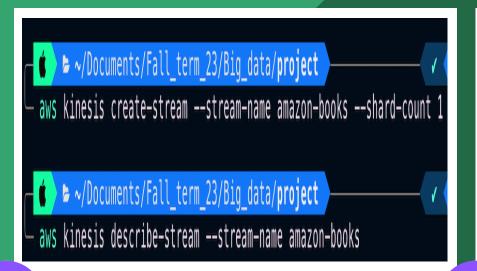
Data Upload Process



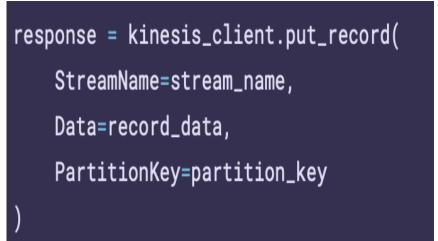
Create an AWS account Install AWS CLI



Configure AWS credentials in the terminal



Create Kinesis stream using AWS CLI



Upload data to the kinesis stream using Python script

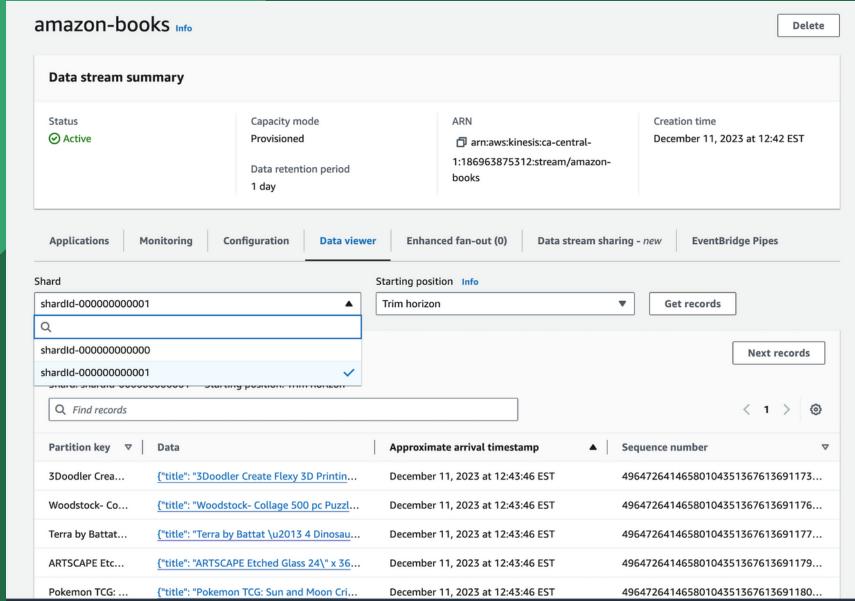
Processing the Stream

```
response = kinesis_client.get_records(
        ShardIterator=shard_iterator,
        Limit=1000
)
```

Use Python script to get record from the stream



Analyze the records



Summary of the Result

```
Total books: 100

Average price: $17.45

Found book: Python for Data Science For Dummies
{'Title': ' Python for Data Science For Dummies ', 'Author(s)': 'John Paul Mueller, Luca Massaron'
, 'Price': 28.26, 'Description': 'The fast and easy way to learn Python programming and statistics'
}

Found book: Python for Data Science For Dummies
{'Title': ' Python for Data Science For Dummies ', 'Author(s)': 'John Paul Mueller, Luca Massaron'
, 'Price': 41.99, 'Description': 'Let Python do the heavy lifting for you as you analyze large data sets'}

Total books: 100

Average price: $48.77

Total books: 12

Average price: $56.73
```

```
python process.py
al number of books: 8786
al price of books: 357758.9959999085
rage price of books: 40.71921192806739
```