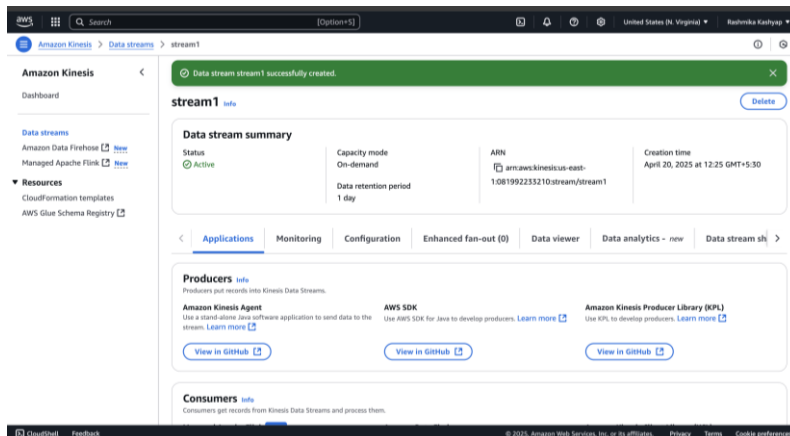


CLOUD ASSIGNMENT 10

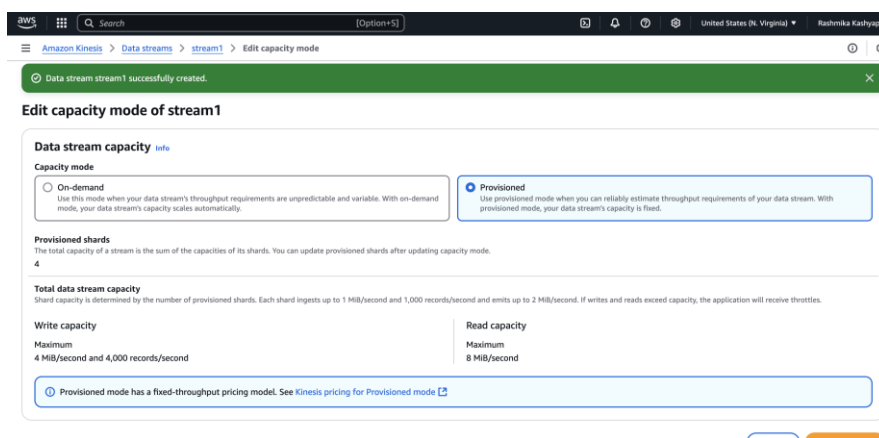
E22CSEU0550

RASHMIKA KASHYAP

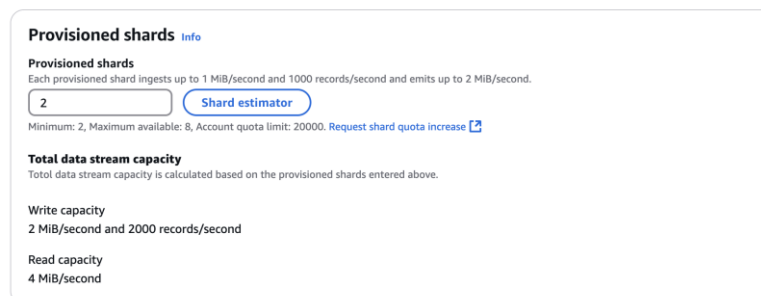
Creating kinesis stream



Creating provisioned capacity



Edit provisioned shards for stream1



Adding kinesis as trigger to lambdaConsumer

Add trigger

Trigger configuration

Kinesis

Select a Kinesis stream to listen for updates on. To select a stream in another shared AWS account, enter its Amazon Resource Name (ARN).

Consumer - optional

Select an optional consumer of your stream to listen for updates on. To select a consumer in another shared AWS account, enter its ARN.

Event source mapping configuration

☒ **Activate trigger**
Select to activate the trigger now. Keep unchecked to create the trigger in a deactivated state for testing (recommended).

☐ **Enable metrics**
Monitor your event source with metrics. You can view those metrics in CloudWatch console. Enabling this feature incurs additional costs. [Learn more](#)

Batch size
The number of records in each batch to send to the function.

Starting position
The position in the stream to start reading from. For more information, see [ShardIteratorType](#) in the Amazon Kinesis API Reference.

lambdaConsumer

The trigger stream was successfully added to function lambdaConsumer. The trigger is in a disabled state.

Function overview

Diagram | **Template**

lambdaConsumer

Kinesis

Execution role

Code | **Test** | **Monitor** | **Configuration** | **Aliases** | **Versions**

General configuration | **Execution role**

Triggers

Export to Infrastructure Composer | **Download**

Description

Last modified
39 minutes ago

Function ARN
arn:aws:lambda:us-east-1:081992233210:function:lambdaConsumer

Function URL

Successfully executing lambdaProducer which has permissions to forward data to kinesis which triggers lambdaConsumer

lambdaProducer

lambda_function.py

```
1 import random
2 import datetime
3 import json
4 import boto3 # Assuming boto3 is used for AWS interaction
5
6 def getSessionId():
7     return str(random.randint(1, 10000))
8
9 def getReferrer():
10    # Generate random user and device details
11    x = random.randint(1, 5)
12    x = x * 50
13    y = x + 30
14    data = {}
15    data["user_id"] = random.randint(x, y)
16    data["device_id"] = random.choice(['mobile', 'computer'])
17
18    # Generate random client event (e.g., user actions)
19    data["client_event"] = random.choice(['click', 'scroll', 'hover'])
```

TEST EVENTS [SELECTED: TEST]

Create new test event

test

Event Name
test

Event sharing settings

☒ **Private**
This event is only available in the Lambda Console and to the event creator. You can configure a total of ten. [Learn more](#)

☐ **Shareable**
This event is available to IAM users within the same account who have permissions to access and use shareable events. [Learn more](#)

Template - optional
test

Event JSON

```
1 {
```

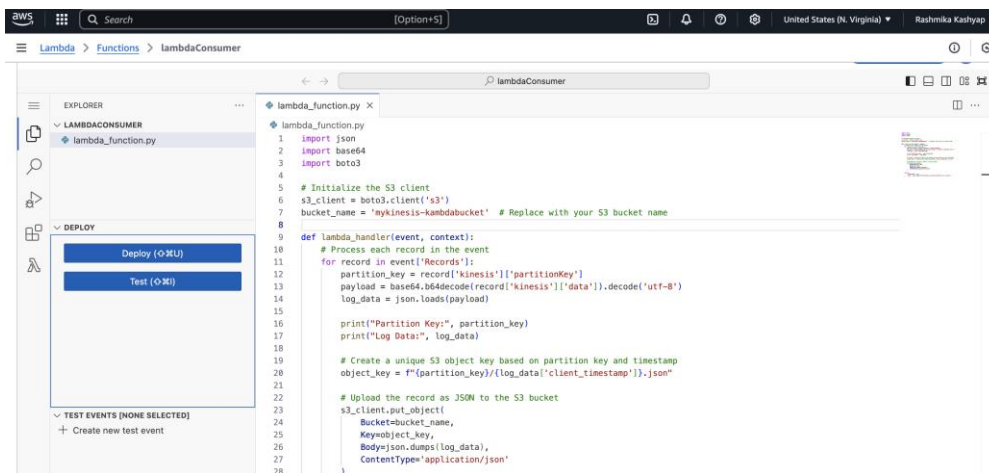
Execution Results

Status: Succeeded
Test Event Name: test

Response:

```
{
  "statusCode": 200,
  "body": "\Data sent to Kinesis Stream"
```

Function Logs:
START RequestId: 54f63ae-136a-4241-8119-21d58183a5af Version: \$LATEST



Therefore records saved as .json in S3

