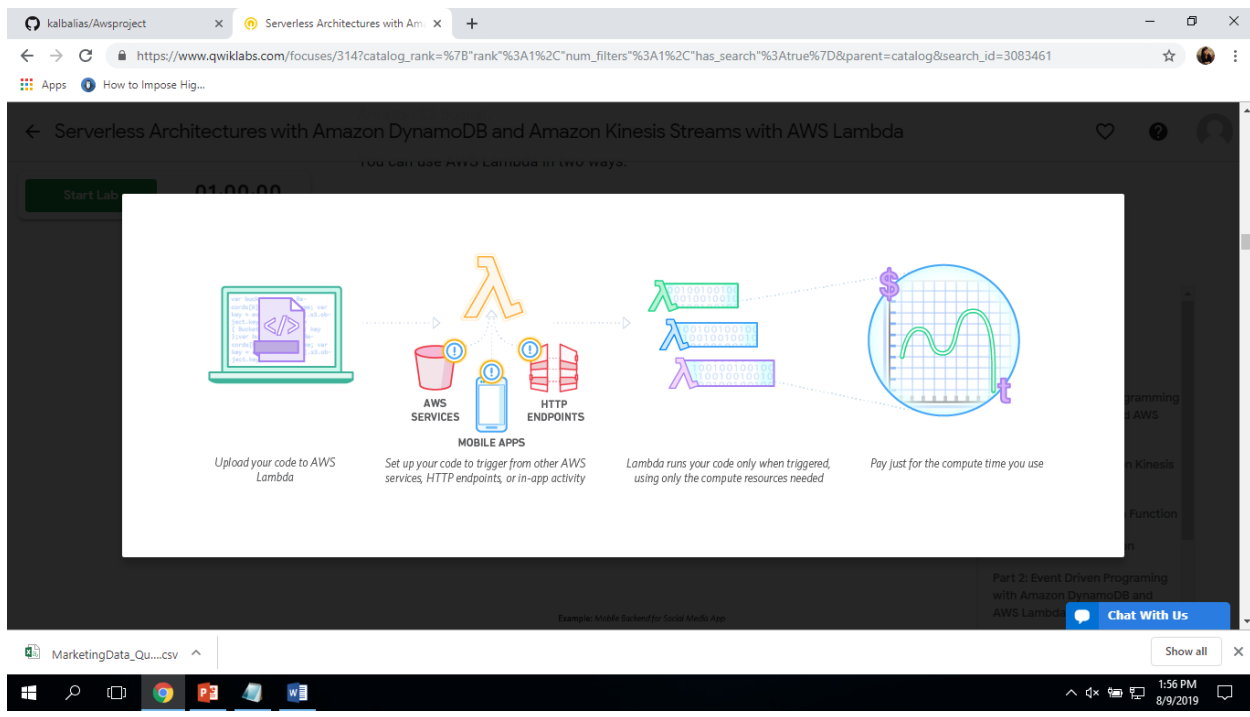


AWS Project Submitted by: Sakshi Kalbalia

Topic: Serverless Architectures with Amazon DynamoDB and Amazon Kinesis Streams with AWS Lambda:



Steps:

- Creating a amazon kinesis stream (creating data stream with one shard).

kalbalias/Awsproject x Serverless Architectures with Am x Amazon Kinesis Streams Manage x +

← → ↻ https://console.aws.amazon.com/kinesis/home?region=us-east-1#/get-started ☆ 👤 ⋮

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Get started with Amazon Kinesis

To get started, choose an Amazon Kinesis resource to create.

Ingest and process streaming data with Kinesis streams


Process data with your own applications, or using AWS managed services like Amazon Kinesis Data Firehose, Amazon Kinesis Data Analytics, or AWS Lambda.



Create data stream

Deliver streaming data with Kinesis Firehose delivery streams

Continuously collect, transform, and load streaming data into destinations such as Amazon S3 and Amazon Redshift.



Create delivery stream

Analyze streaming data with Kinesis analytics applications

Ingest and process media streams with Kinesis video streams

MarketingData_Qu...csv ⌵ Show all ✕

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← → ↻ https://console.aws.amazon.com/kinesis/home?region=us-east-1#/streams/list ☆ 👤 ⋮

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Kinesis streams

Kinesis data streams continuously capture and temporarily store real-time data. [Configure producers](#) to put data records into a data stream. [Configure consumers](#) to continuously process data stream records.

Total shards in use: 1 Total shards remaining: 499 ⓘ

✔ Stream Lab-Stream has been created

To enable server encryption, add shard-level metrics, or modify the shard number or data retention period, view the [details](#).

Create Kinesis stream Connect Kinesis consumers Actions ⌵

🔍 Filter Kinesis streams

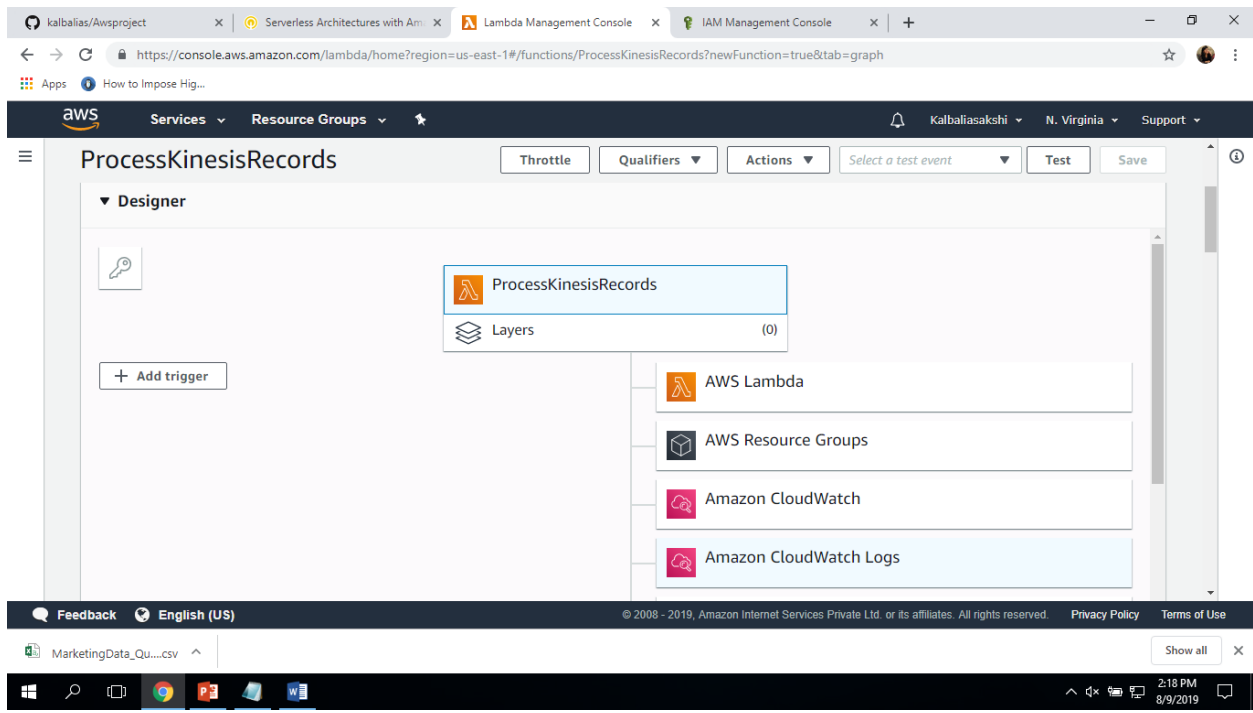
| <input type="checkbox"/> | Kinesis stream name | Number of shards | Status | Consumers using enhanced fan-out ⓘ |
|--------------------------|---------------------|------------------|--------|------------------------------------|
| <input type="checkbox"/> | Lab-Stream | 1 | Active | 0 |

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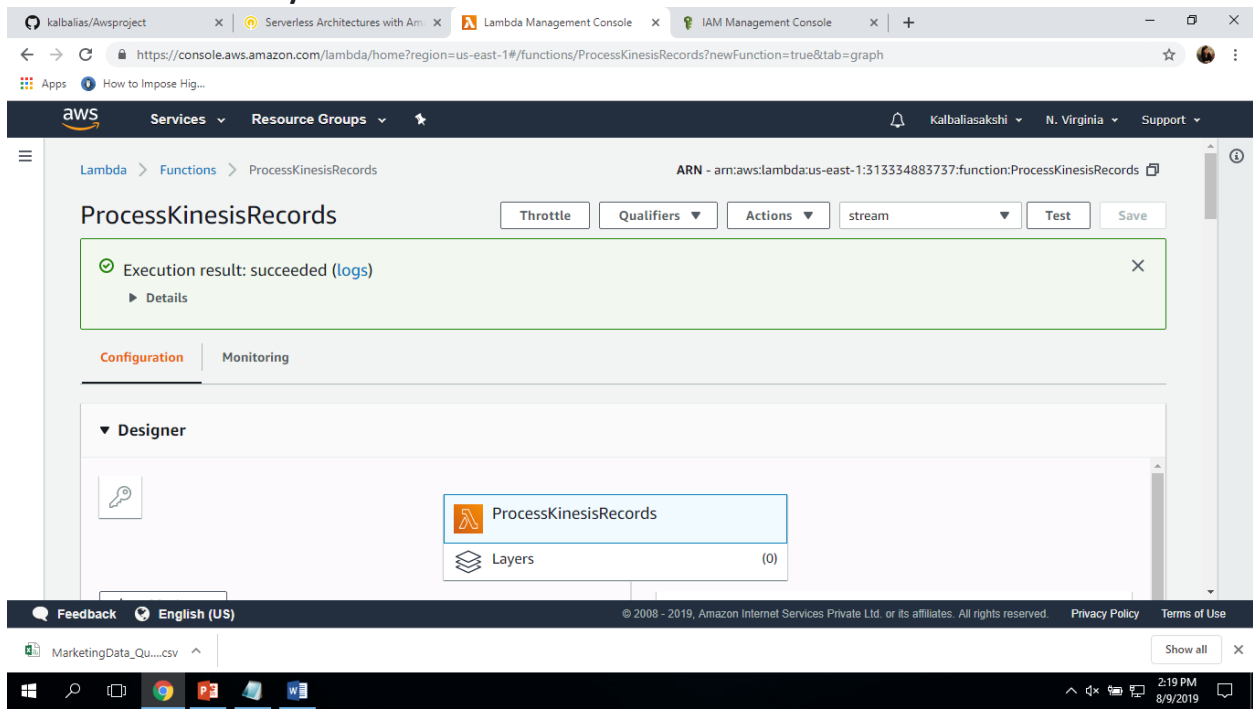
MarketingData_Qu...csv ⌵ Show all ✕

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- Create a lambda function.



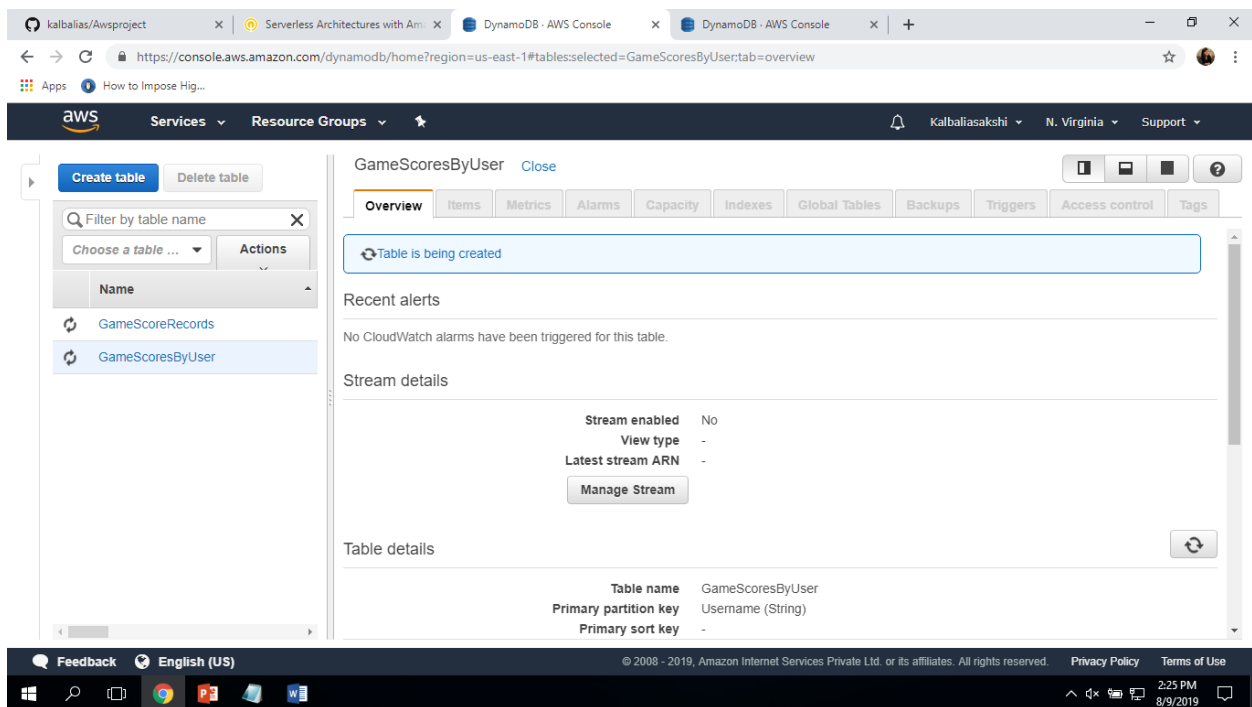
- Test your function.



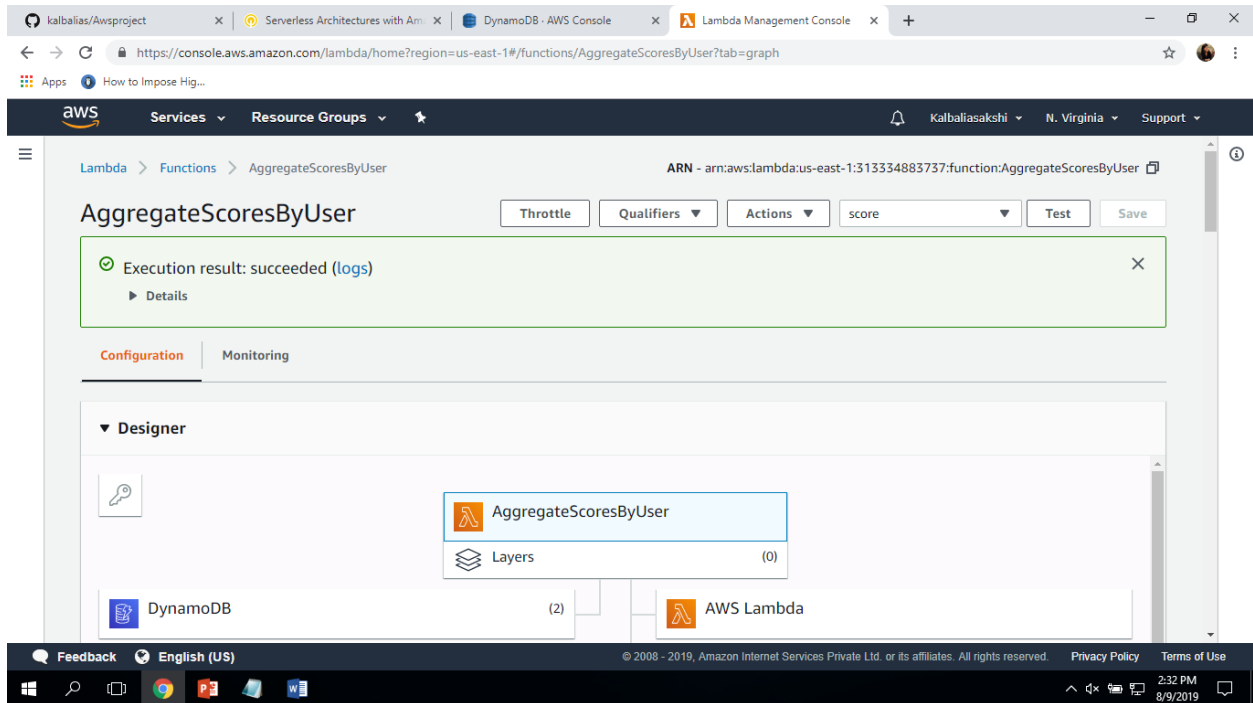
Part-2: Event driven programming with Amazon DynamoDB and AWS Lambda.

Steps:

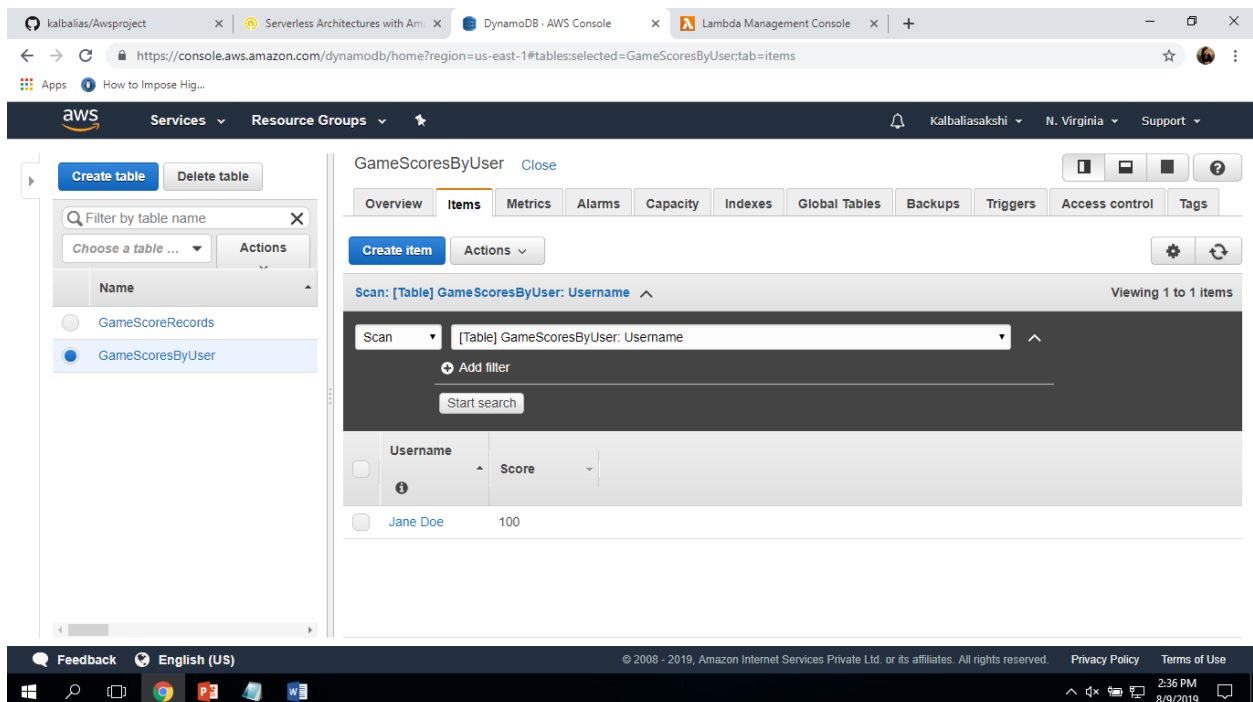
- Create tables in DynamoDB



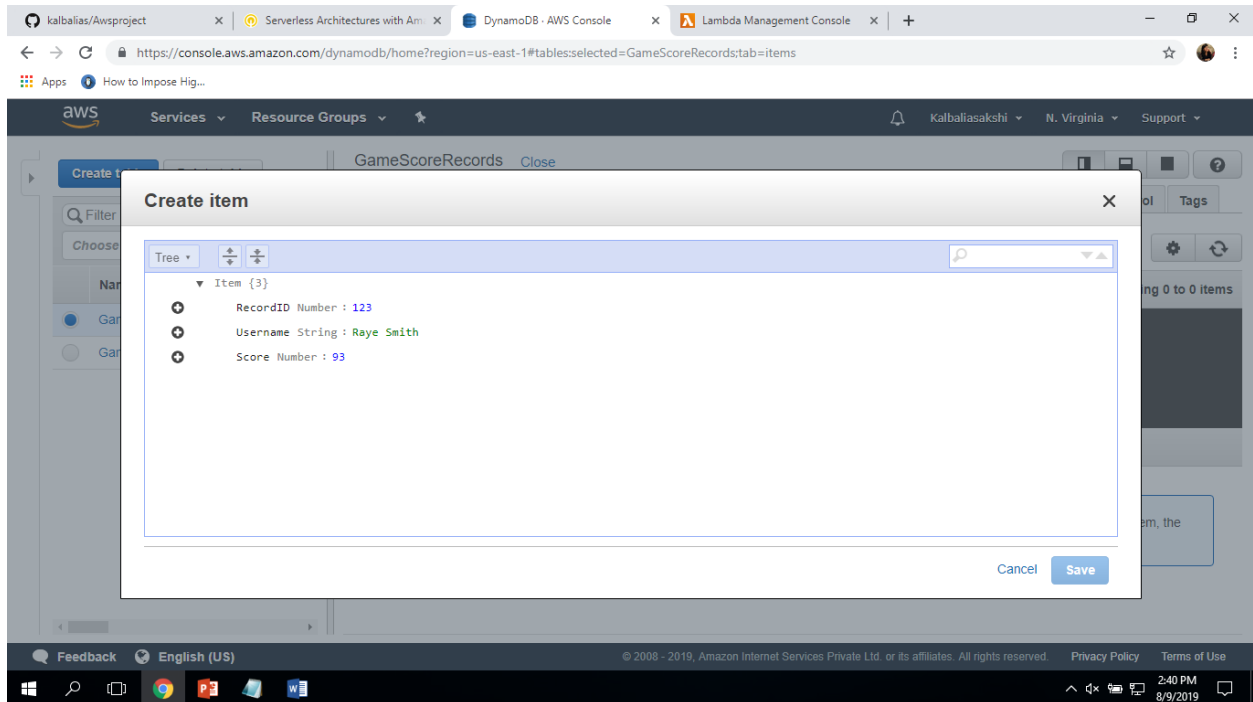
- Create Lambda function.



- Verify in DynamoDB. This table was previously empty, but now we can see record.



- Add triggers. We are adding records in score table and confirming that lambda function updates the record in user table.



Result:

st301999/AWSProject | Amazon Kinesis Streams Man... | DynamoDB - AWS Console | Lambda Management Console | Serverless Architectures with A... | + -

https://console.aws.amazon.com/dynamodb/home?region=us-east-1#tables:selected=GameScoresByUser;tab=items

Apps

aws Services Resource Groups S3 EMR

Shruti Tekriwal N. Virginia Support

DynamoDB Dashboard

Tables Backups Reserved capacity Preferences

DAX Dashboard Clusters Subnet groups Parameter groups Events

Create table Delete table

Filter by table name

Choose a table ... Actions

Name

GameScoreRecords

GameScoresByUser

GameScoresByUser Close

Overview Items Metrics Alarms Capacity Indexes Global Tables Backups More

Create item Actions

Scan: [Table] GameScoresByUser: Username Viewing 1 to 2 items

Scan [Table] GameScoresByUser: Username

Add filter

Start search

| Username | Score |
|------------|-------|
| James Dane | 150 |
| Jane Doe | 100 |

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We can see the new record added in user table.