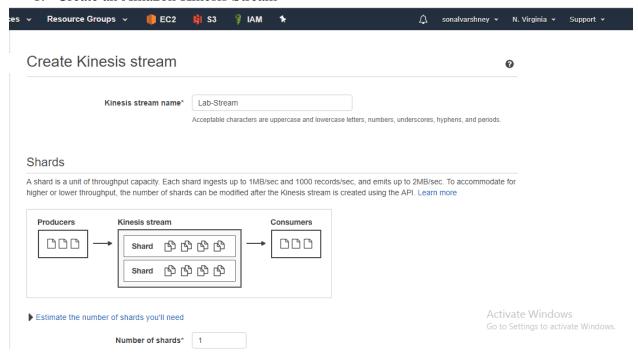
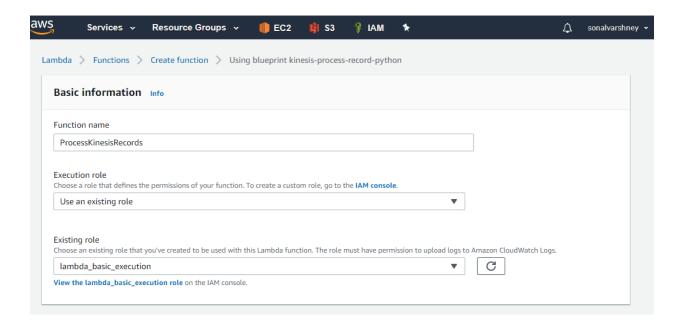
Serverless Architectures with Amazon DynamoDB and Amazon Kinesis Streams with AWS Lambda -Sonal Varshney

## 1. Create an Amazon Kinesis Stream



## 2. Create Lambda Function

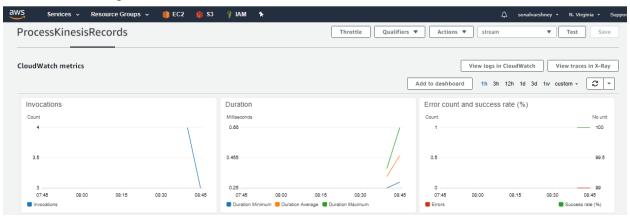


```
1 from future import print function
 2
 3 import base64
 4 import json
 5
   print('Loading function')
 6
8
9 - def lambda_handler(event, context):
10
        #print("Received event: " + json.dumps(event, indent=2))
        for record in event['Records']:
11 -
            # Kinesis data is base64 encoded so decode here
12
            payload = base64.b64decode(record['kinesis']['data'])
13
            print("Decoded payload: " + payload)
14
        return 'Successfully processed {} records.'.format(len(event['Records']))
15
16
```

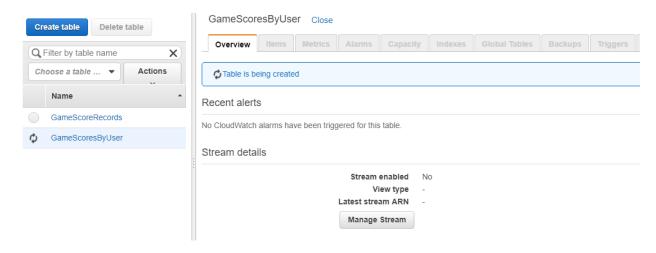
## 3. Test the function



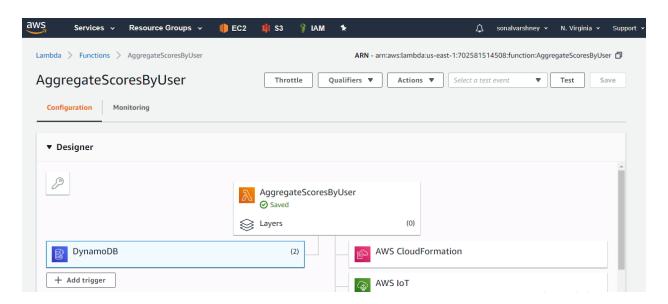
## 4. Monitoring



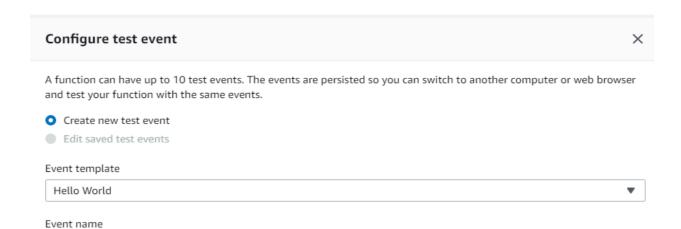
5. Create DynamoDB tables (GameScoreRecords, GameScoresByUser)



6. Create Lambda Function



7. Configure test event

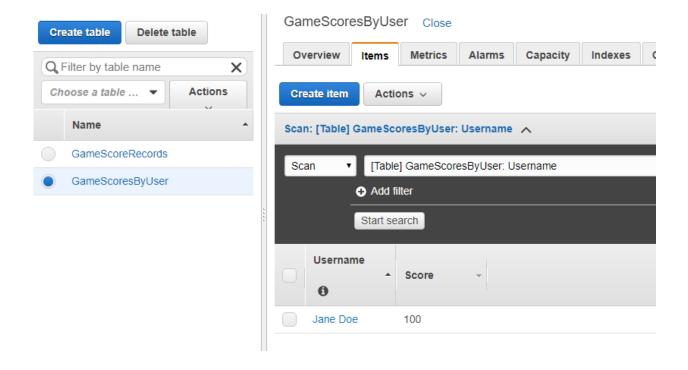


```
"Records": [
 2 +
             "eventID": "1",
"eventVersion": "1.0",
 4
 5
             "dynamodb": {
 6 +
                'Keys": {
 7 -
 8 +
                  "RecordID": {
                     "S": "2"
9
10
11
                "NewImage": {
    "RecordID": {
12 -
13 *
```

## 8. Verify in DynamoDB

score

1 - [



# 9. Trigger Update



