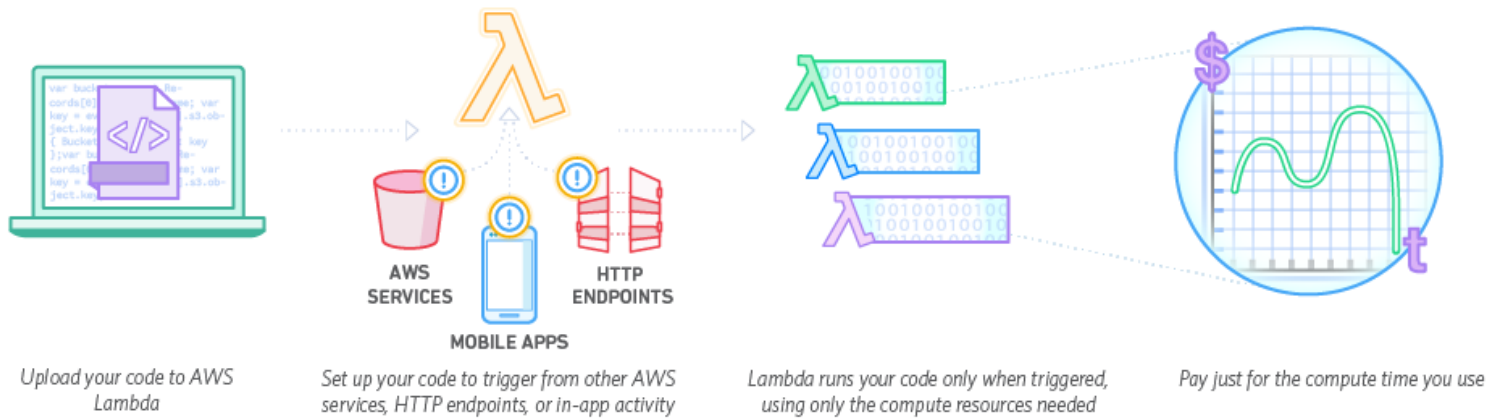
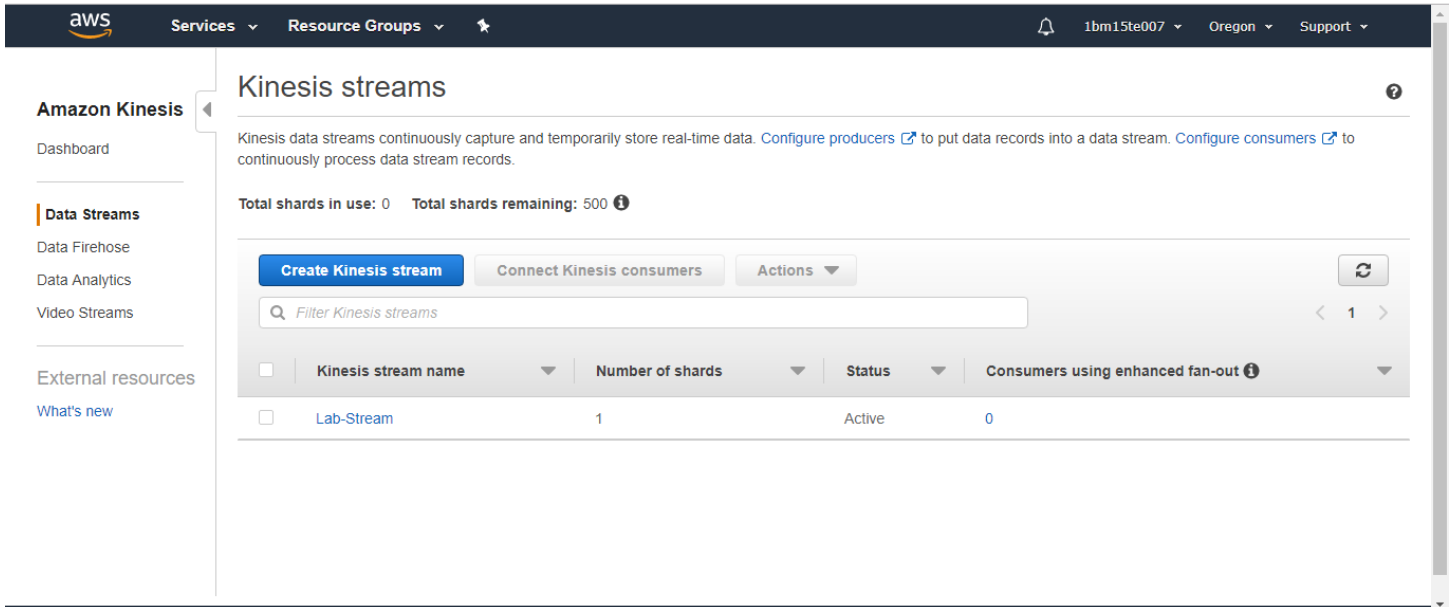


Serverless Architectures with Amazon DynamoDB and Amazon Kinesis Streams with AWS Lambda

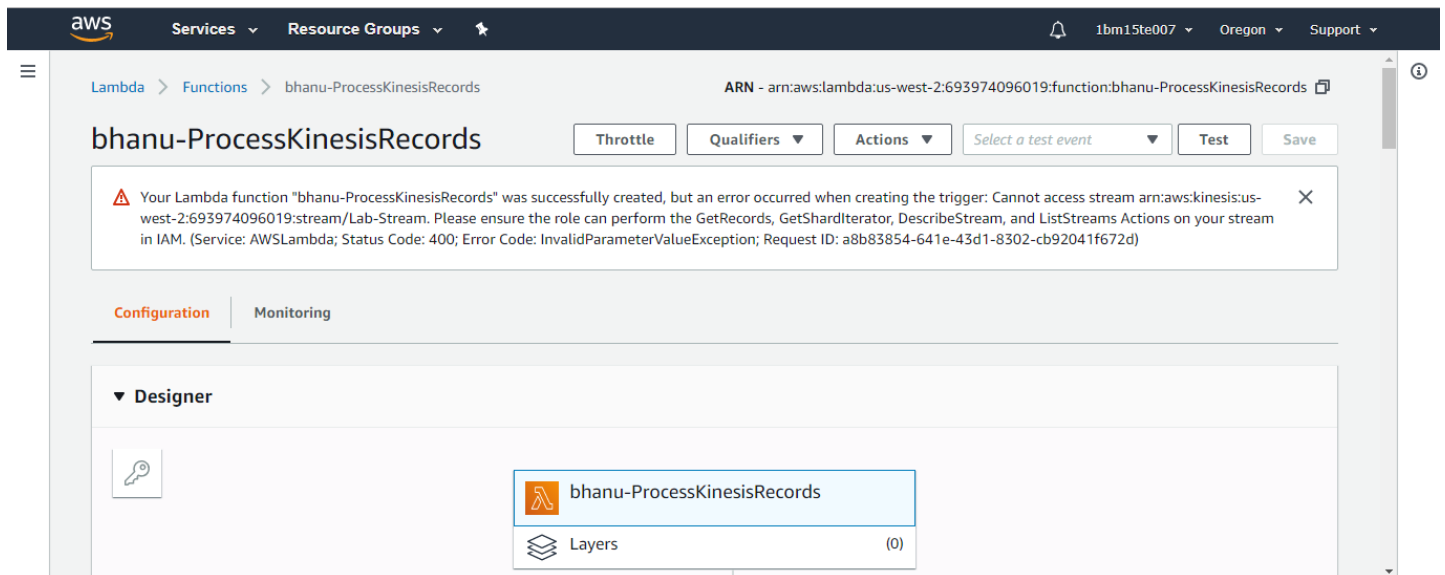


Steps:

- ## 1. Creating a kinesis stream



2. Creating a lambda function named as bhanu-ProcessKinesisRecords



3. Testing the function

aws Services Resource Groups

Lambda > Functions > bhanu-ProcessKinesisRecords ARN - arn:aws:lambda:us-west-2:693974096019:function:bhanu-ProcessKinesisRecords

bhanu-ProcessKinesisRecords Throttle Qualifiers Actions bhanuStream Test Save

✓ Execution result: succeeded (logs) ✕

▼ Details

The section below shows the result returned by your function execution.

"Successfully processed 1 records."

Summary

Code SHA-256	Request ID
jGpKHQ8eYQX6hhetUkiGdkd/1KgJ8ChHHXdl7TazJXo=	1e85e993-c9ca-4214-b624-65eed437a1d6
Duration	Billed duration
0.31 ms	100 ms
Resources configured	Max memory used
128 MB	40 MB

4. Under event driven programming, we have to use DynamoDB and Lambda.
First we create two tables in DynamoDB.

aws Services Resource Groups

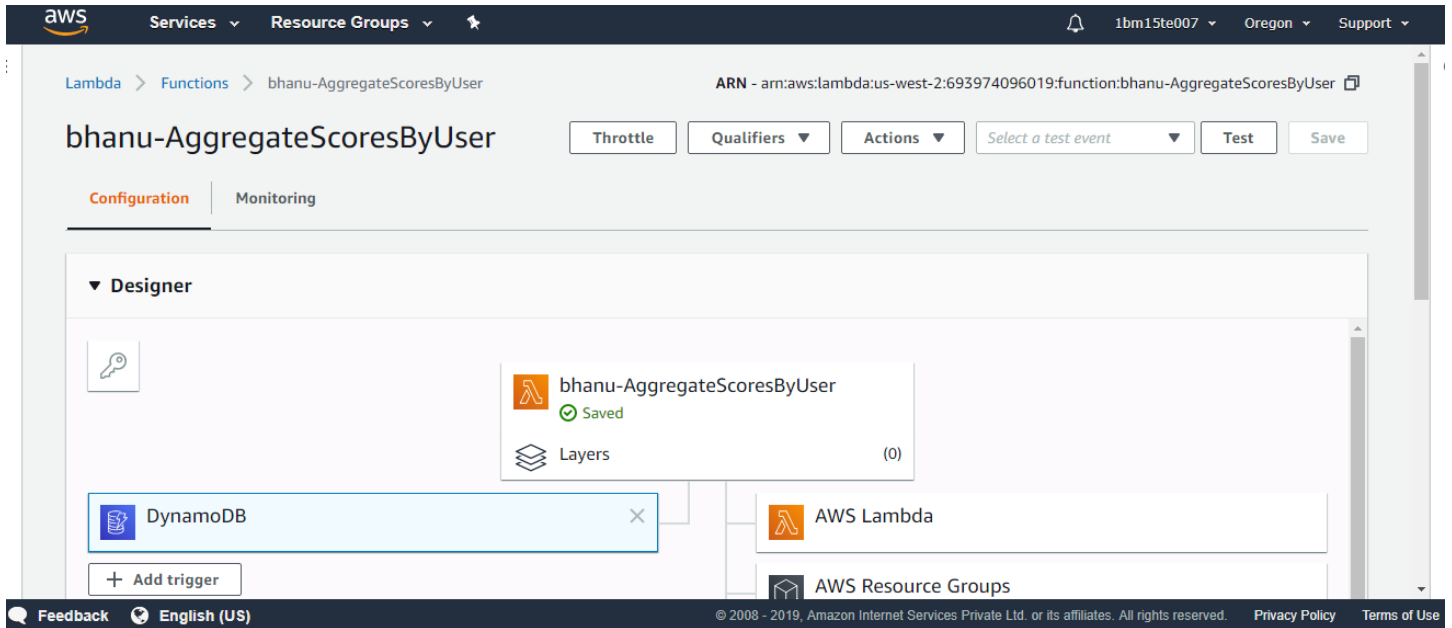
Create table Delete table

Filter by table name X Choose a table group Actions Viewing 2 of 2 Tables

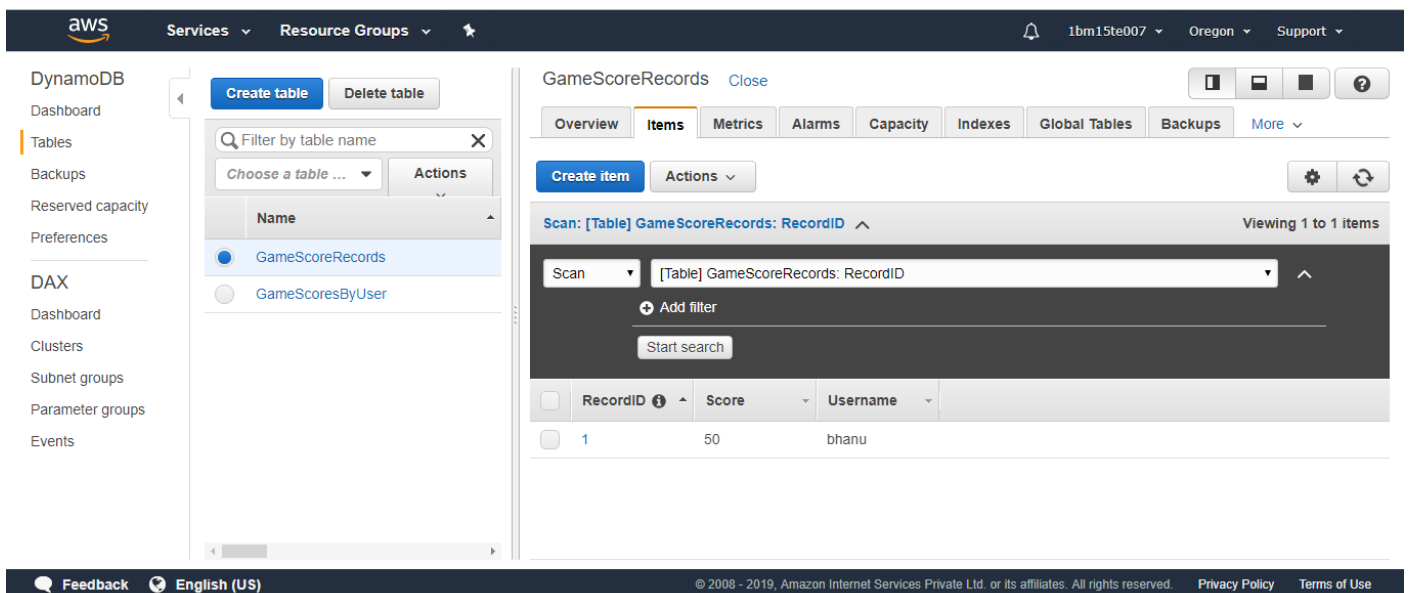
Name	Status	Partition key	Sort key	Indexes	Total read capacity	Total write capacity
GameScoreRecords	Active	RecordID (Number)	-	0	5	5
GameScoresByUser	Active	Username (String)	-	0	5	5

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5. Creating a lambda function which will be triggered by updates in the DynamoDB table.



6. Adding data to table "game scores of users"



7. On making entries in table “game scores records”, the records are added in the table “game scores by users” as well.

The screenshot displays the AWS Management Console interface for Amazon DynamoDB. On the left, the navigation pane shows the 'DynamoDB' section with options like 'Dashboard', 'Tables', 'Backups', 'Reserved capacity', 'Preferences', 'DAX', 'Clusters', 'Subnet groups', 'Parameter groups', and 'Events'. The 'Tables' section is selected, showing a list of tables: 'GameScoreRecords' and 'GameScoresByUser'. The 'GameScoresByUser' table is selected and highlighted in blue.

The main content area shows the 'GameScoresByUser' table details. At the top, there are tabs for 'Overview', 'Items', 'Metrics', 'Alarms', 'Capacity', 'Indexes', 'Global Tables', and 'Backups'. The 'Items' tab is active. Below the tabs, there are buttons for 'Create item' and 'Actions'. The table's primary key is 'Username'. The table contains three items:

Username	Score
Jane Doe	100
bhanu	50
priya	60

The bottom of the console shows the footer with 'Feedback', 'English (US)', and copyright information: '© 2008 - 2019, Amazon Internet Services Private Ltd. or its affiliates. All rights reserved. Privacy Policy Terms of Use'.