AWS Lambda with Amazon Kinesis

- 1. Install AWS CLI LINK.
- 2. Verify AWS cli
 - a. aws -version
- 3. AWS kinesis Data Stream
 - a. Goto Amazon Kinesis LINK
 - b. Select Kinesis Data Streams and click on create data stream button
 - c. Enter Data stream name: <yourname>-demo-kinesis
 - d. Capacity mode: Provisioned
 - e. Provisioned shards: 1
 - f. Click on create data stream
- 4. Create IAM role for Lambda Function
 - a. Open the roles page in the IAM console.
 - b. Choose Create role.
 - c. Create a role with the following properties.
 - d. Trusted entity AWS Lambda
 - e. Permissions AWSLambdaKinesisExecutionRole
 - f. Role name <yourname>-lambda-kinesis-role
- 5. Create lambda Function
 - a. Goto Lambda Function and Click on Create Function
 - b. Function name: <yourname>-lambda-kinesis
 - c. Runtime: nodejs.16.x
 - d. Under Change default execution role
 - i. Use an existing role : <yourname>-lambda-kinesis-role
 - e. Add below code to Lambda into index.js and click on deploy

console.log('Loading function');

```
exports.handler = function(event, context) {
   //console.log(JSON.stringify(event, null, 2));
   event.Records.forEach(function(record) {
      // Kinesis data is base64 encoded so decode here
      var payload = Buffer.from(record.kinesis.data,
   'base64').toString('ascii');
      console.log('Decoded payload:', payload);
   });
};
```

- f. Goto Configurations tab in Lambda
 - i. Goto Triggers and Click on Add Trigger
 - ii. Source: Kinesis
 - iii. Kinesis stream: <yourname>-demo-kinesis

iv. Batch size: 100

v. Starting position: Latest

6. For verifying the working execute below aws cli command

aws kinesis put-record --stream-name <yourname>-demo-kinesis --partition-key 1 --data "SSBhbSBSaXRlc2ggR295YWwuIFdlIGFyZSBsZWFybmluZyBBV1MgS2luZXNpcyBEY XRhIFN0cmVhbQ=="

NOTE:

-data will be the base64 encoded value

Example:

Plain Text - I am Ritesh Goyal. We are learning AWS Kinesis Data Stream.

Base64 -

SSBhbSBSaXRlc2ggR295YWwulFdllGFyZSBsZWFybmluZyBBV1MgS2luZXNpcyBEYX RhIFN0cmVhbQ==

- 7. Verify the logs
 - a. Goto Cloudwatch \rightarrow logs \rightarrow log groups
 - b. Click on /aws/lambda/<yourname>-lambda-kinesis
 - c. Open latest log stream and check the recent logs
 - d. Search for message 'Decoded payload' and it will have the message

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