

Amazon Dynamodb Query Lambda Function and Rest Api Connection

Amazon Dynamodb Lambda Function for Rest Api

Firstly install aws sdk package: `npm i aws-sdk`

Note: AWS Lambda now supports layers, we can easily create our library. For more information:

<https://medium.com/@anjanava.biswas/nodejs-runtime-environment-with-aws-lambda-layers-f3914613e20e>

```
1  const config = require('./config.js');
2  const AWS = require('aws-sdk');
3  // Set the region
4  AWS.config.update(config.aws_remote_config);
5
6  // Create the DynamoDB service object
7  const db = new AWS.DynamoDB({apiVersion: 'latest'});
8  exports.handler= async (event) => {
9    let type = 'CURRENCY';
10   if (event !== undefined && event.type !== null) type = event.type;
11   var params = {
12     TableName: config.aws_table_name,
13     FilterExpression: 'contains (#Type, :post)',
14     ExpressionAttributeNames: {
15       "#Type": "Type",
16     },
17     ExpressionAttributeValues: {
18       ":post": {S: type}
19     }
20   };
21   const awsRequest = await db.scan(params);
22   try {
23     const result = await awsRequest.promise();
24     return {
25       statusCode: 200,
26       body: result.Items
27     };
28   } catch (e) {
29     return {
30       statusCode: 500,
31       body: e.code+": "+e.message
32     };
33   }
34 }
```

config.js file

```
1  module.exports= {
2    aws_table_name: 'Currencies',
3    aws_local_config: {
4      //Provide details for local configuration
5    },
6    aws_remote_config: {
7      accessKeyId: 'AKIAT6QDYTERBB3JQCD1',
```

```
8     secretAccessKey: 't0ZIzMu1BxqQJc4DjGkotffnp0Si/MxMsAIsWnxY',
9     region: 'us-east-1',
10  }
11  };
```

Create rest api in amazon aws then use lambda function described above. For more information:
<https://docs.aws.amazon.com/apigateway/latest/developerguide/rest-api-develop.html>