AWS ASSIGNMENT ON LAMBDA

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TIGER ANALYTICS

Role For Lambda

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Role For EC2

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EC2 Instance

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txnsOrders -- DynamoDB

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txnsOrders – Data Stream

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Lambda Function

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Code For Lambda Function

import base64

import json

import boto3

import decimal

def lambda\_handler(event, context):

item = None

dynamo\_db = boto3.resource('dynamodb')

table = dynamo\_db.Table('txnsOrders')

decoded\_record\_data = [base64.b64decode(record['kinesis']['data']) for record in event['Records']]

deserialized\_data = [json.loads(decoded\_record) for decoded\_record in decoded\_record\_data]

with table.batch\_writer() as batch\_writer:

for item in deserialized\_data:

txnid = item['txnid']

txndate = item['txndate']

custid = item['custid']

amount = item['amount']

category = item['category']

subcategory = item['subcategory']

city = item['city']

state = item['state']

txntype = item['txntype']

batch\_writer.put\_item (

Item = {

'txnid': txnid,

'txndate': txndate,

'custid': custid,

'amount': amount,

'category':category,

'subcategory': subcategory,

'city': city,

'state': state,

'txntype': txntype

}

)

Configuring Agent

{

"cloudwatch.emitMetrics": true,

"kinesis.endpoint": "",

"firehose.endpoint": "",

"flows":[

{

"filePattern": "/var/log/transactions/\*.log",

"kinesisStream": "txnsOrders",

"partitionKeyOption": "RANDOM",

"dataProcessingOptions": [

{

"optionName": "CSVTOJSON",

"customFieldNames": ["txnid", "txndate", "custid" , "amount", "category", "subcategory", "city",

"state" , "txntype"]

}

]

}

]

}

Tailing Log

Graphical user interface, application

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Output In txnsOrders table

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