

CLOUD COMPUTING HACKATHON 2

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Creating json and CSV record files output:

CSV file:

| | A | B | C | D | E |
|---|------------------|------------|--------------|----------|---|
| 1 | company_name (S) | origin (S) | owner (S) | year (N) | |
| 2 | 2Everyone | India | Tech-buddies | 2019 | |
| 3 | Apple | US | Steve Jobs | 1976 | |
| 4 | Microsoft | US | Bill Gates | 1975 | |
| 5 | Tata | India | Ratan Tata | 1868 | |
| 6 | | | | | |
| 7 | | | | | |
| 8 | | | | | |

JSON file:

```
{  
  "company_name": "Tata",  
  "origin": "India",  
  "owner": "Ratan Tata ",  
  "year": 1868  
}
```

Creating DynamoDB tables:

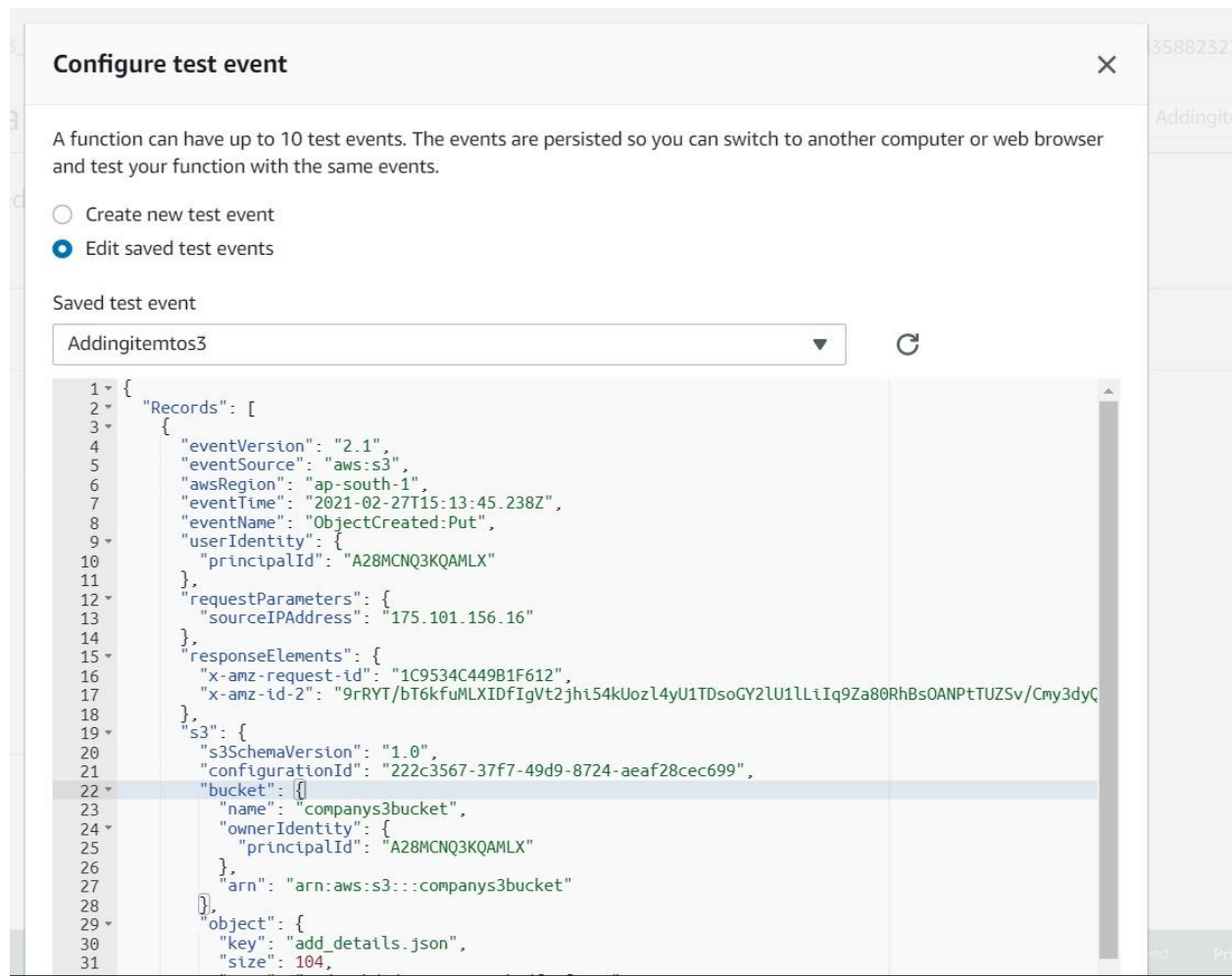
| <input type="checkbox"/> | company_name | origin | owner | year |
|--------------------------|--------------|--------|--------------|------|
| <input type="checkbox"/> | 2Everyone | India | Tech-buddies | 2019 |
| <input type="checkbox"/> | Apple | US | Steve Jobs | 1976 |
| <input type="checkbox"/> | Microsoft | US | Bill Gates | 1975 |
| <input type="checkbox"/> | Tata | India | Ratan Tata | 1868 |

Creating Lambda Function with python code and testing:

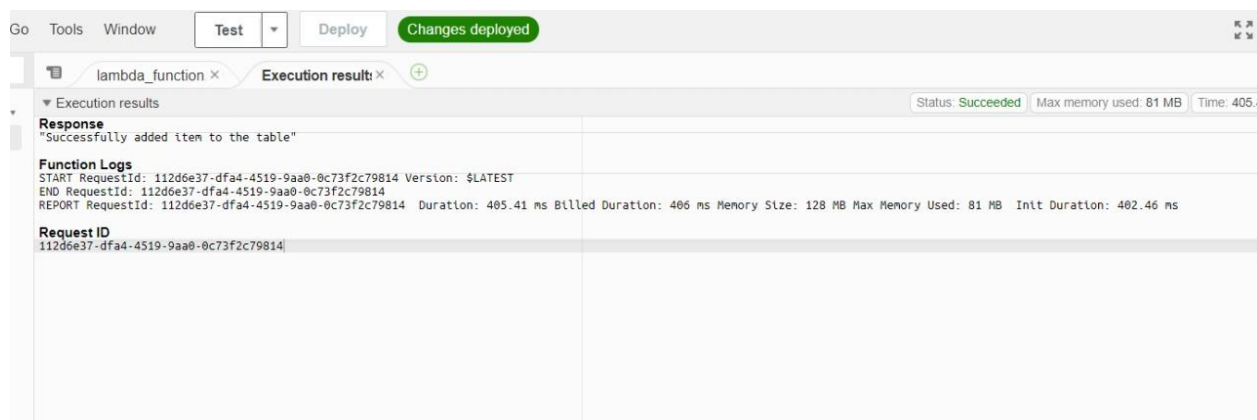
Python Code:

```
1 import boto3
2 import json
3 s3_client = boto3.client('s3')
4 dynamodb = boto3.resource('dynamodb')
5
6 def lambda_handler(event, context) :
7     bucket_name = event['Records'][0]['s3']['bucket']['name']
8     json_file_name = event['Records'][0]['s3']['object']['key']
9
10    json_object = s3_client.get_object(Bucket=bucket_name,Key=json_file_name)
11    jsonFileReader = json_object['Body'].read()
12    jsonDist = json.loads(jsonFileReader)
13
14
15    table = dynamodb.Table('company_details')
16    table.put_item(Item=jsonDist)
17    return "Successfully added item to the table"
```

Test Json:



Output of Testing:



Required roles and policies:

Role ARN arn:aws:iam::578358823236:role/teamno1_cloudwatch_s3_dynamodb_role [🔗](#)

Role description Allows Lambda functions to call AWS services on your behalf. | [Edit](#)

Instance Profile ARNs [🔗](#)

Path /

Creation time 2021-02-25 20:43 UTC+0530

Last activity 2021-02-27 21:02 UTC+0530 (Today)

Maximum session duration 1 hour [Edit](#)

Permissions | Trust relationships | Tags | Access Advisor | Revoke sessions

▼ Permissions policies (1 policy applied)

[Attach policies](#) [+ Add inline](#)

| Policy name ▼ | Policy type ▼ |
|----------------------------------|----------------|
| ▶ teamno1_cloudwatch-s3-dynamodb | Managed policy |

▶ Permissions boundary (not set)

Final Updated DynamoDB table:

Scan ▼

[Table] company_details: company_name ▼

^

+ Add filter

Start search

| <input type="checkbox"/> | company_name ▲ i | origin ▼ | owner ▼ | year ▼ |
|--------------------------|-------------------------------------|----------|---------------|--------|
| <input type="checkbox"/> | 2Everyone | India | Tech-buddies | 2019 |
| <input type="checkbox"/> | Apple | US | Steve Jobs | 1976 |
| <input type="checkbox"/> | JIO | Mumbai | Mukesh Ambani | 2007 |
| <input type="checkbox"/> | Microsoft | US | Bill Gates | 1975 |
| <input type="checkbox"/> | Tata | India | Ratan Tata | 1868 |

Cloudwatch logs screen output:

Log events

You can use the filter bar below to search for and match terms, phrases, or values in your log events. [Learn more about filter patterns](#)

☐ View as text



Actions ▼

Create Metric Filter

Filter events

Clear

1m

30m

1h

12h

Custom



Timestamp

Message

No older events at this moment. [Retry](#)

2021-02-27T22:12:00.288+05:30 START RequestId: 87f424ac-3f3d-4af1-a73c-6b26d2109a77 Version: \$LATEST
START RequestId: 87f424ac-3f3d-4af1-a73c-6b26d2109a77 Version: \$LATEST

Copy

2021-02-27T22:12:00.703+05:30 END RequestId: 87f424ac-3f3d-4af1-a73c-6b26d2109a77
END RequestId: 87f424ac-3f3d-4af1-a73c-6b26d2109a77

Copy

2021-02-27T22:12:00.703+05:30 REPORT RequestId: 87f424ac-3f3d-4af1-a73c-6b26d2109a77 Duration: 414.69 ms Billed Duration: 415 ms Memory Size: 128 MB Max Memo...
REPORT RequestId: 87f424ac-3f3d-4af1-a73c-6b26d2109a77 Duration: 414.69 ms Billed Duration: 415 ms Memory Size: 128 MB Max Memory Used: 82 MB
Init Duration: 358.87 ms

Copy