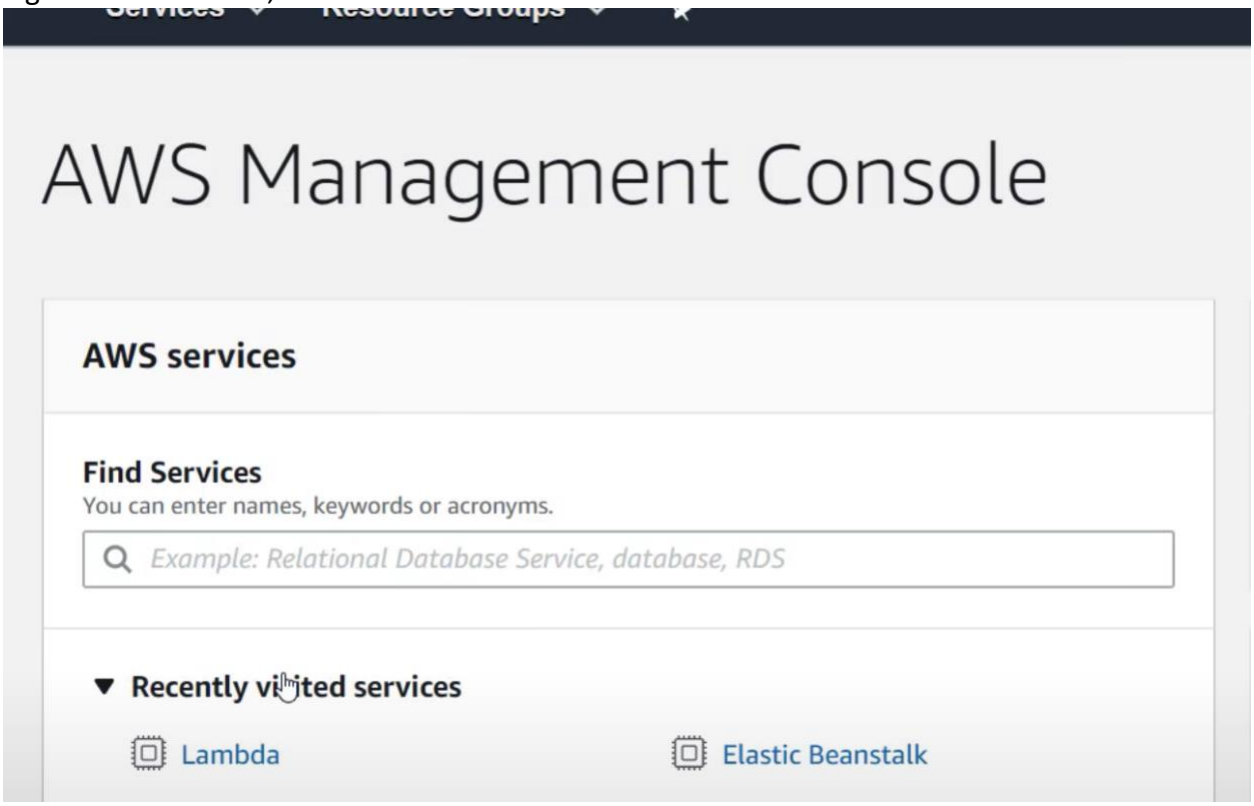
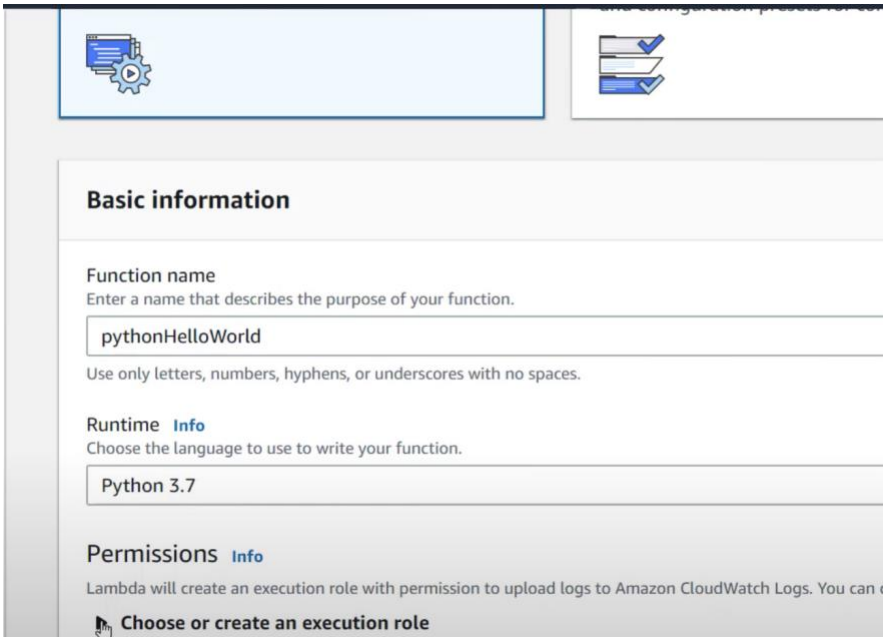
AWS Lambda w/ Python

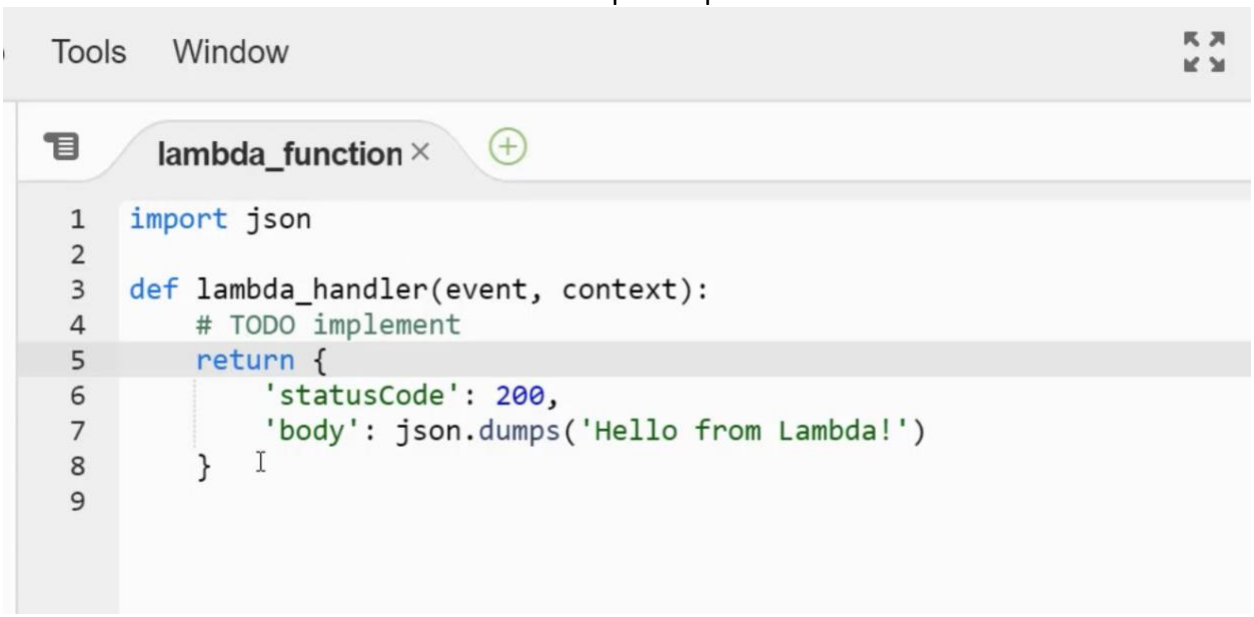
1. Sign to AWS console, and head into Lambda



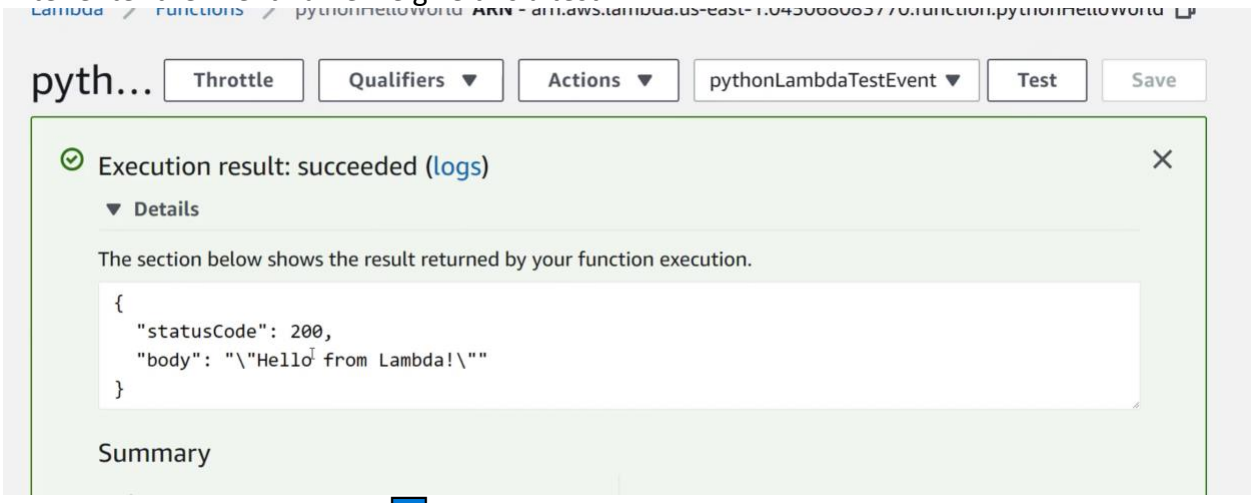
2. Make sure Runtime is under the right selection: Python, since we're going to only use this language for the project.



3. Function code: event and context are lambda specific parameters.



4. After enter the Event name we give this a test:



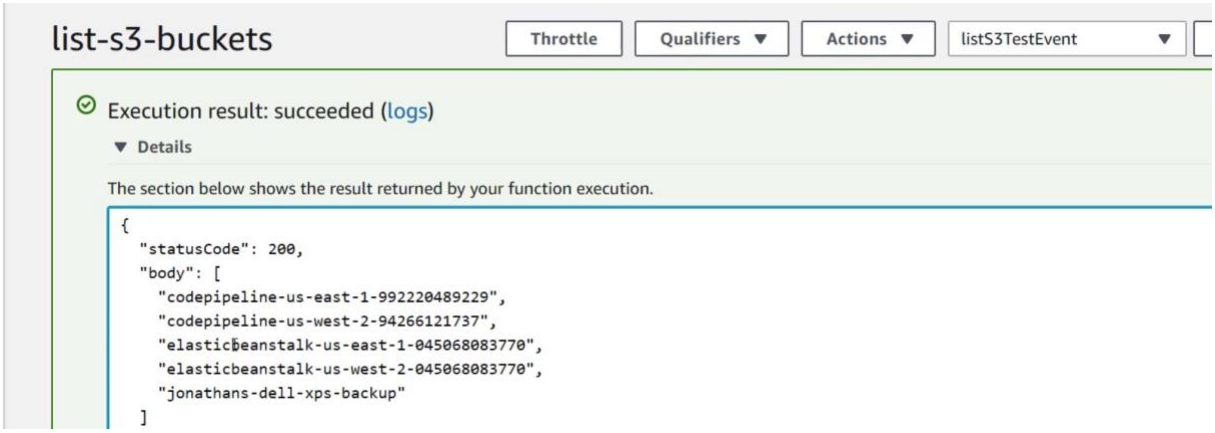
All the details we can inspect ↑

5. Boto3 can be imported directly without installing;
S3: service object, then we can call various functions on this

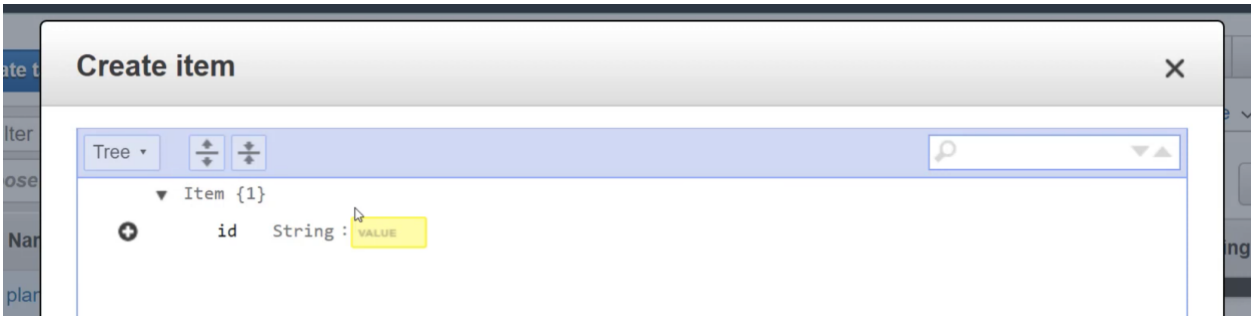
6. Define empty list;
Return bucket list to 'body'

```
6  def lambda_handler(event, context):
7      bucket_list = []
8      for bucket in s3.buckets.all():
9          print(bucket.name)
10         bucket_list.append(bucket.name)
11     return {
12         'statusCode': 200,
13         'body': bucket_list
14     }
```

7. Make sure you give access to the test function



8. Set up a test table to have something to work on:



*Manually adding here, need to learn a more advanced way.

9. CREATE a variable to hold our table (line 5)

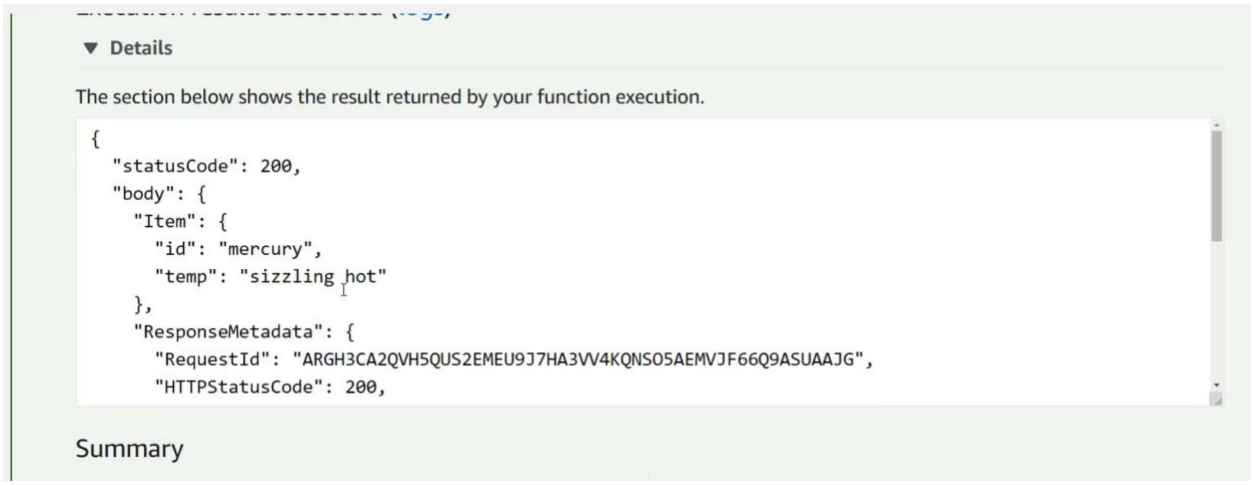
```
2  import boto3
3
4  dynamodb = boto3.resource('dynamodb')
5  table = dynamodb.Table('planets')
6
```

10. .get_item is inside the boto3 library

```
7  def lambda_handler(event, context):
8      response = table.get_item(
9          Key={
10             'id': 'mercury'
11         }
12     )
13
```

This should return the mercury item for us

11. Voila



12. Add new item to the table:

```
4  dynamodb = boto3.resource('dynamodb')
5  table = dynamodb.Table('planets')
6
7  def lambda_handler(event, context):
8      table.put_item(
9          Item={
10             'id': 'neptune',
11             'temp': 'super cold'
12         }
13     )
14     return {
15         'statusCode': 200,
16         'body': 'Item added'
17     }
18
```

(Line8) adding new item

13. Hit test then received the new item