Exercise 5: Deploy a Lambda Function

Time: 15 minutes

Objective

Deploy your first AWS Lambda function that responds with "Hello World".

Instructions

Step 1: Create the Lambda function

1. In AWS Console, search for **Lambda**
2. Click **Create function**
3. Select **Author from scratch**
4. Function name: `HelloBTS`
5. Runtime: **Python 3.12** (or latest available)
6. Architecture: `x86_64`
7. Permissions: **Create a new role with basic Lambda permissions**
8. Click **Create function**

> In AWS Academy Learner Lab: select `LabRole` instead of creating a new role.

Step 2: Write the code

Replace the default code with:

```python
import json

def lambda_handler(event, context):
    return {
        "statusCode": 200,
        "body": json.dumps("Hello BTS Student!")
    }
```

Click **Deploy** to save.

Step 3: Test the function

1. Click **Test**
2. Create a new event with name `TestEvent`
3. Keep the default template (Hello World)

4. Click **Save**, then **Test** again

Expected output:

```
{
  "statusCode": 200,
  "body": "\"Hello BTS Student!\""
}
```

Step 4: Check the logs

1. Go to the **Monitor** tab
2. Click **View CloudWatch logs**
3. Open the most recent log stream
4. You should see: START, END, and REPORT entries with duration and memory usage

Bonus

- Modify the response message and redeploy
- Raise an exception and see how the error appears in CloudWatch
- Check the REPORT line: duration, memory used vs memory configured