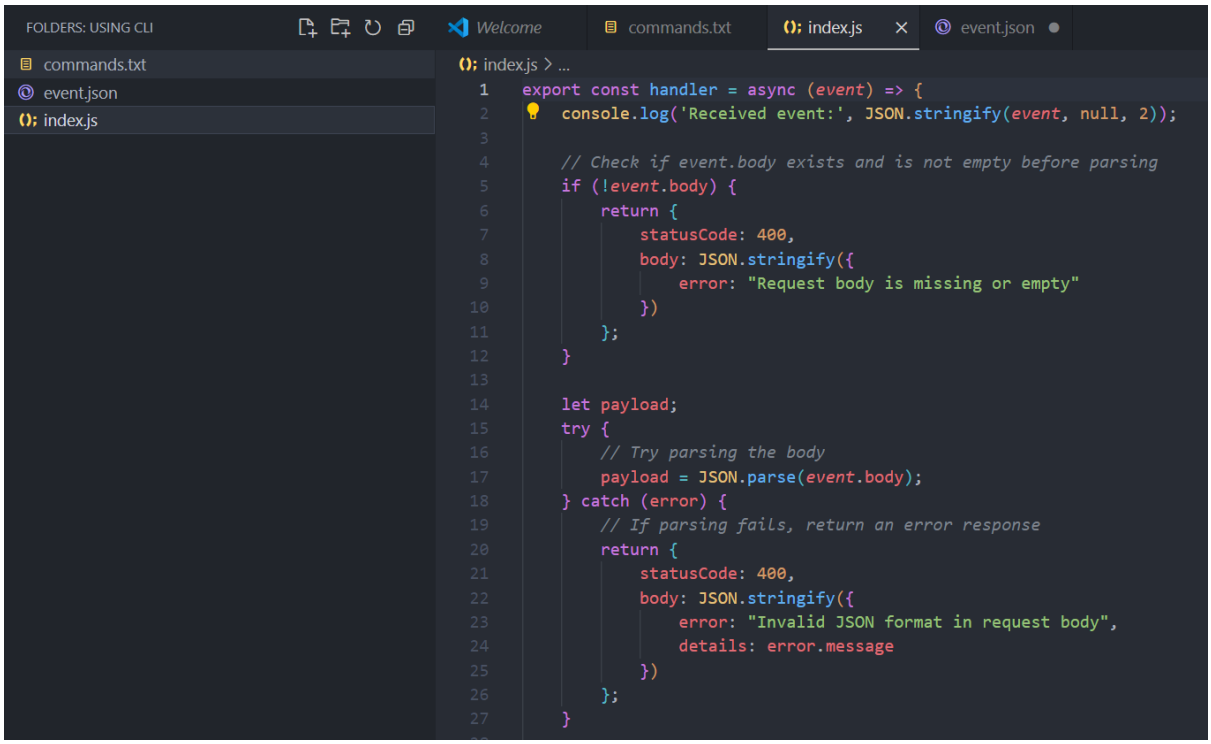
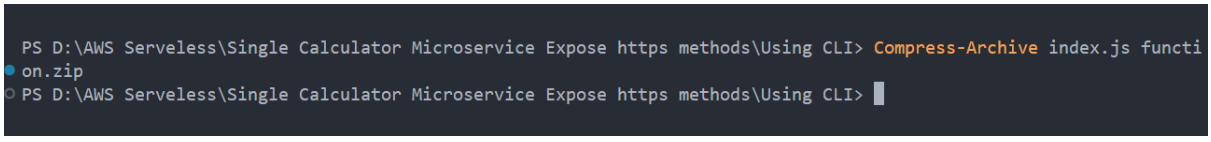
😊 Single Calculator Microservice using CLI

1. In our previous lab, we built a single Calculator Microservice using AWS Console and AWS Lambda.
2. In this lab, we will again use AWS Lambda as a service to build our Single Calculator Microservice, but this time through AWS CLI.
3. So, first create a folder and open it in VS code then create these shown in the snapshot.
4. Create a text file to store all the commands and then create an index.js file where all the code will be created for our lambda function then we need to create a zip file out of our index.js file.



5. Now just run the command to zip our file, below you can see that our file has been zipped.



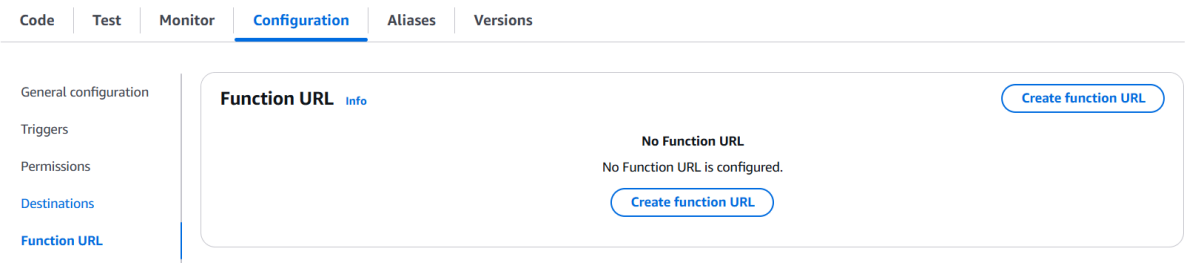
6. Then we ran this command to get the execution role for our lambda function.

```
PS D:\AWS Serveless\Single Calculator Microservice Expose https methods\Using CLI> aws iam get-role --role-name lam
bda-exec
>>
Role:
  Arn: arn:aws:iam::878893308172:role/lambda-exec
  AssumeRolePolicyDocument:
    Statement:
    - Action: sts:AssumeRole
      Effect: Allow
      Principal:
        Service: lambda.amazonaws.com
    Version: '2012-10-17'
  CreateDate: '2024-11-12T08:14:46+00:00'
  MaxSessionDuration: 3600
```

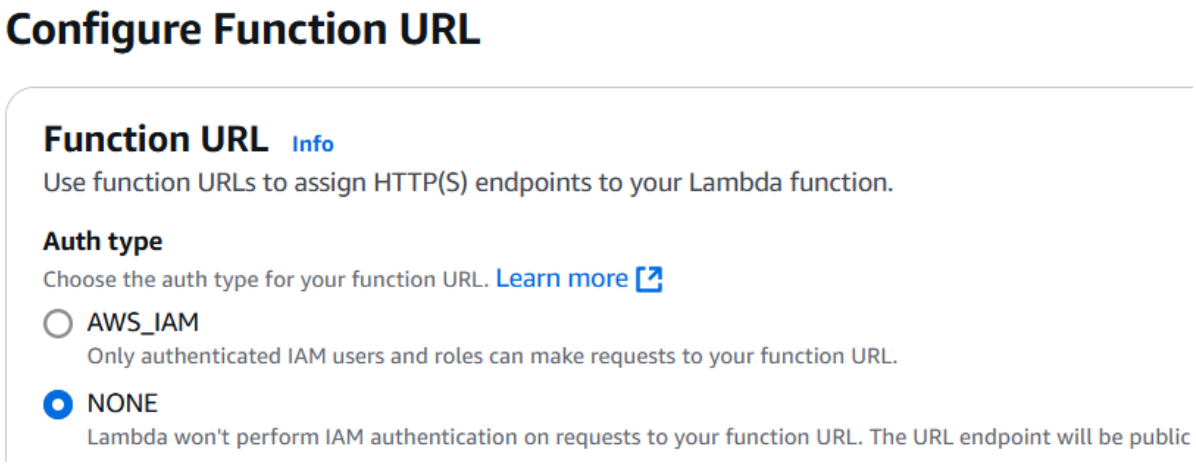
7. After that we ran the create lambda command to create our function.

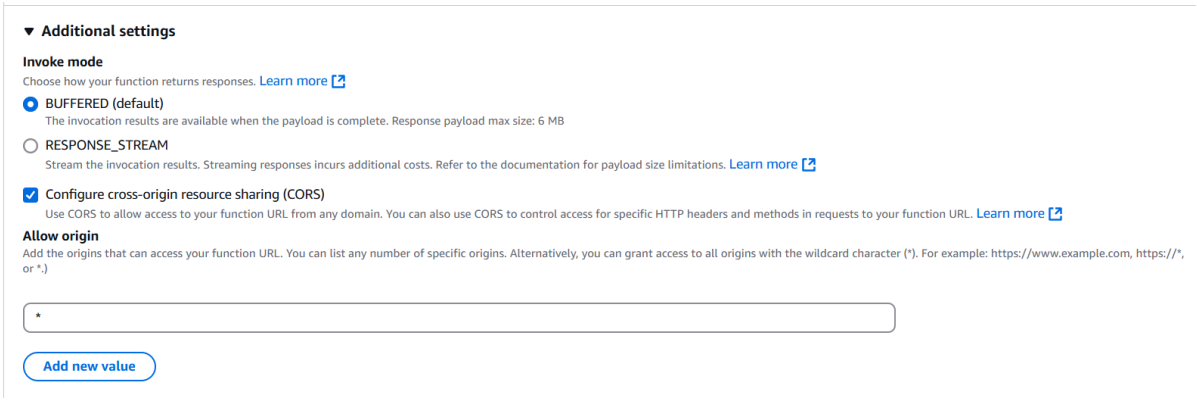
```
>>     --role Arn: arn:aws:iam::878893308172:role/lambda-exec
PS D:\AWS Serveless\Single Calculator Microservice Expose https methods\Using CLI> aws lambda create-function `
>>     --function-name calculator `
>>     --runtime nodejs18.x `
>>     --zip-file fileb://function.zip `
>>     --handler index.handler `
>>     --role arn:aws:iam::878893308172:role/lambda-exec
Architectures:
- x86_64
CodeSha256: AETC4kxMsU4+pmu4owbpEq552ai8hJI97M//Fr69dw8=
CodeSize: 735
Description: ''
EphemeralStorage:
  Size: 512
```

8. On the console too we can see that our function has been created. Now we need to create the function URL for our function. For that go inside it and from the configuration tab choose function URL and click on Create.

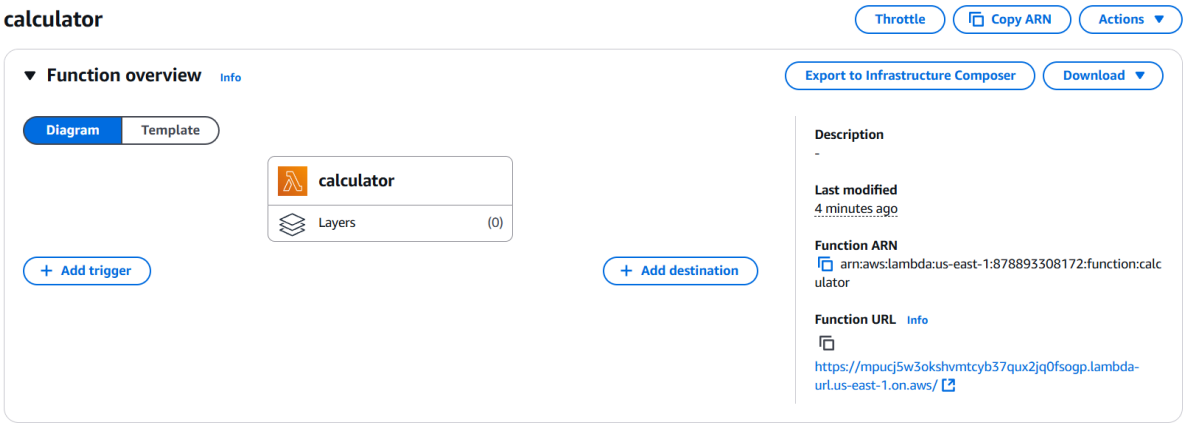


9. First you need to choose the Auth type to None and scroll down to expand additional settings. There you need to enable the CORS feature and click on save.





10. Now you will see that your function has the function URL.



11. Like before open the Postman tool on your laptop. Paste the function here and choose the POST method then choose the body, raw and JSON. Write the query and click on Send button you will see that your calculator is working.