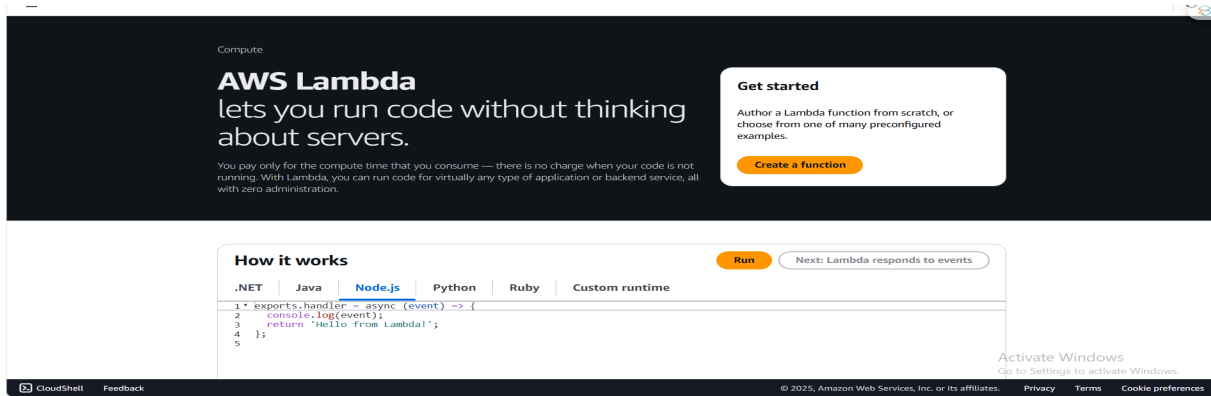


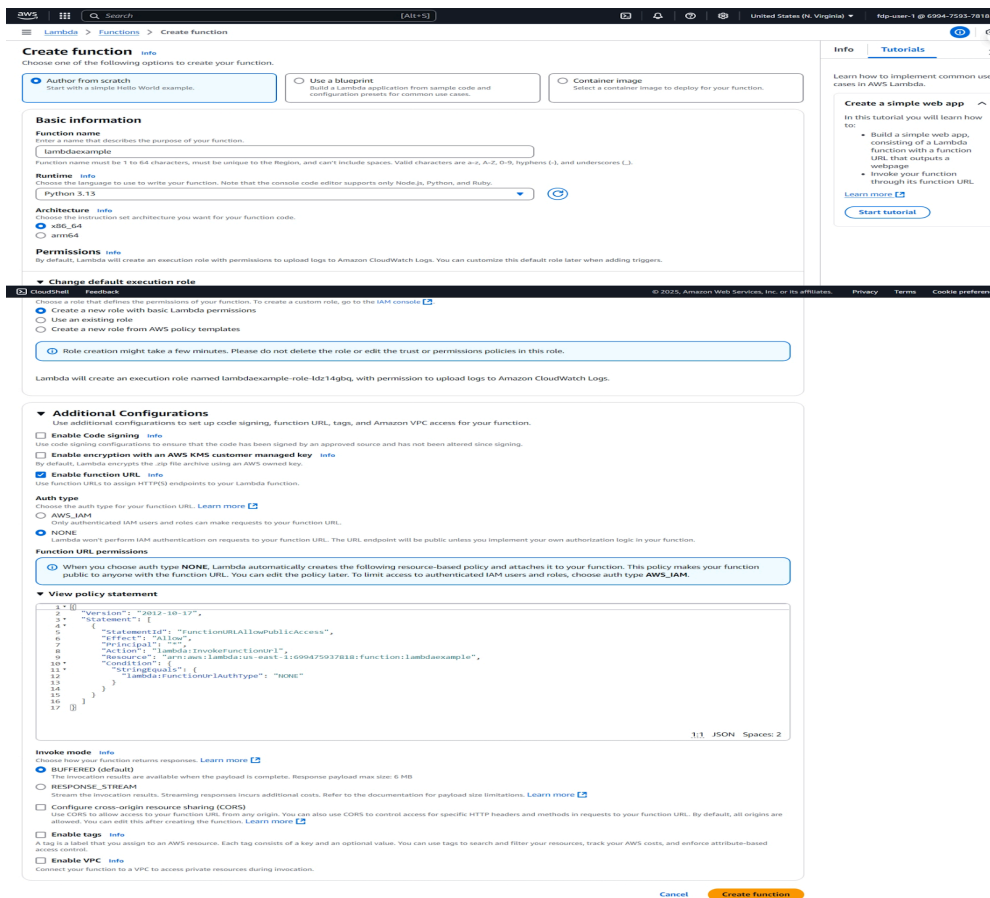
# P4: Developing REST APIs with Amazon API Gateway

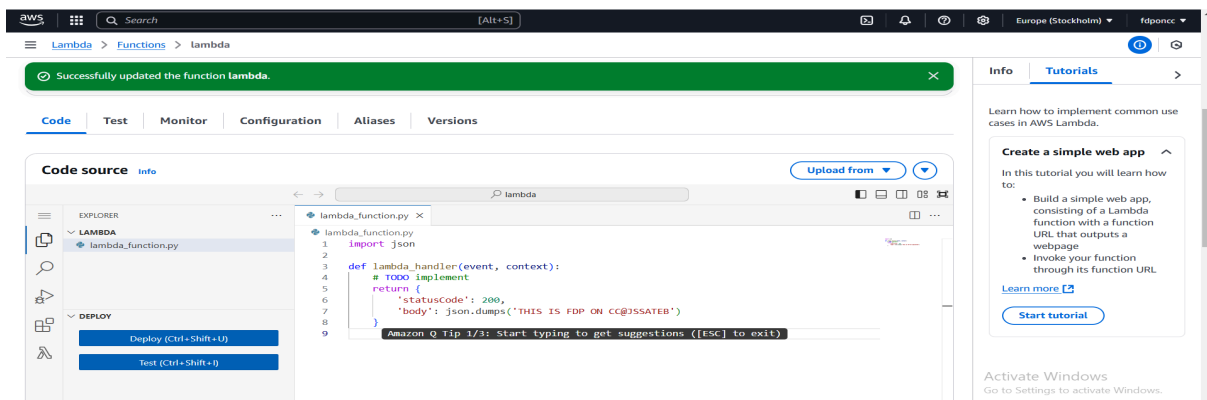
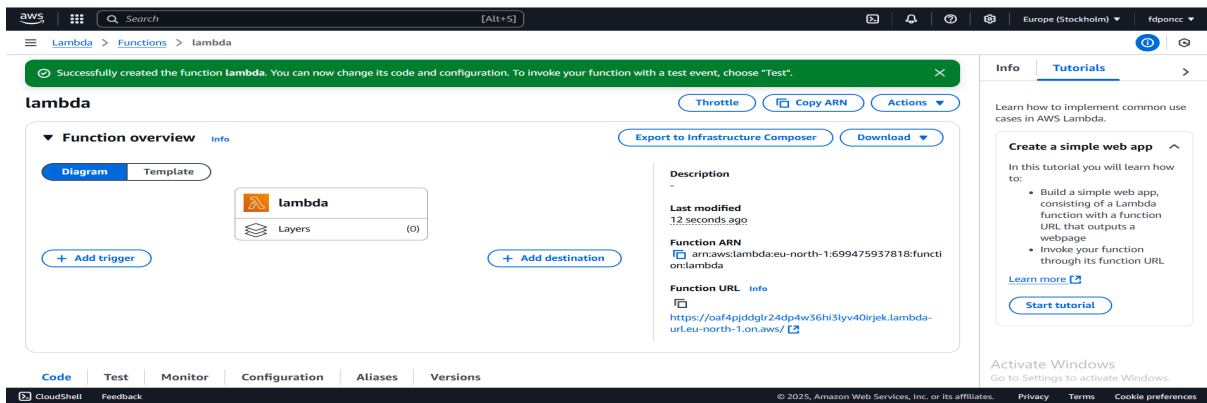
PRE-REQUISITS IS CREATION OF LAMBDA FUNCTION (AS WE DID IN P5)

## -----AWS LAMBDA CREATION-----

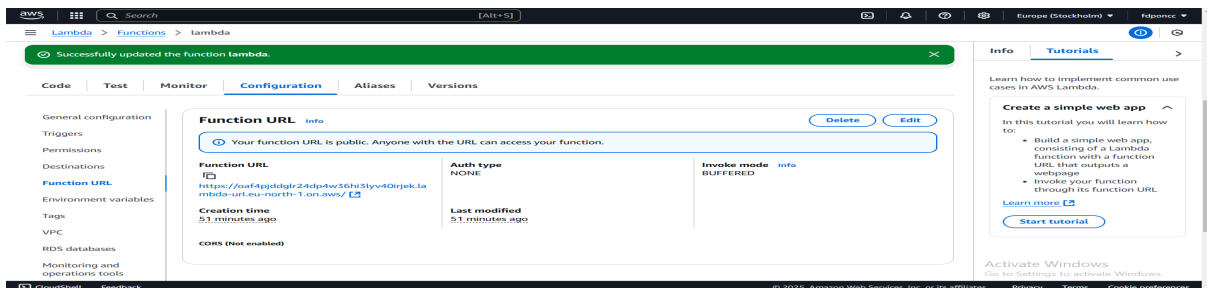


## CREATE FUNCTION





## CONFIGERATIONS --- FUNCTION URL -- CHECK URL RUNS

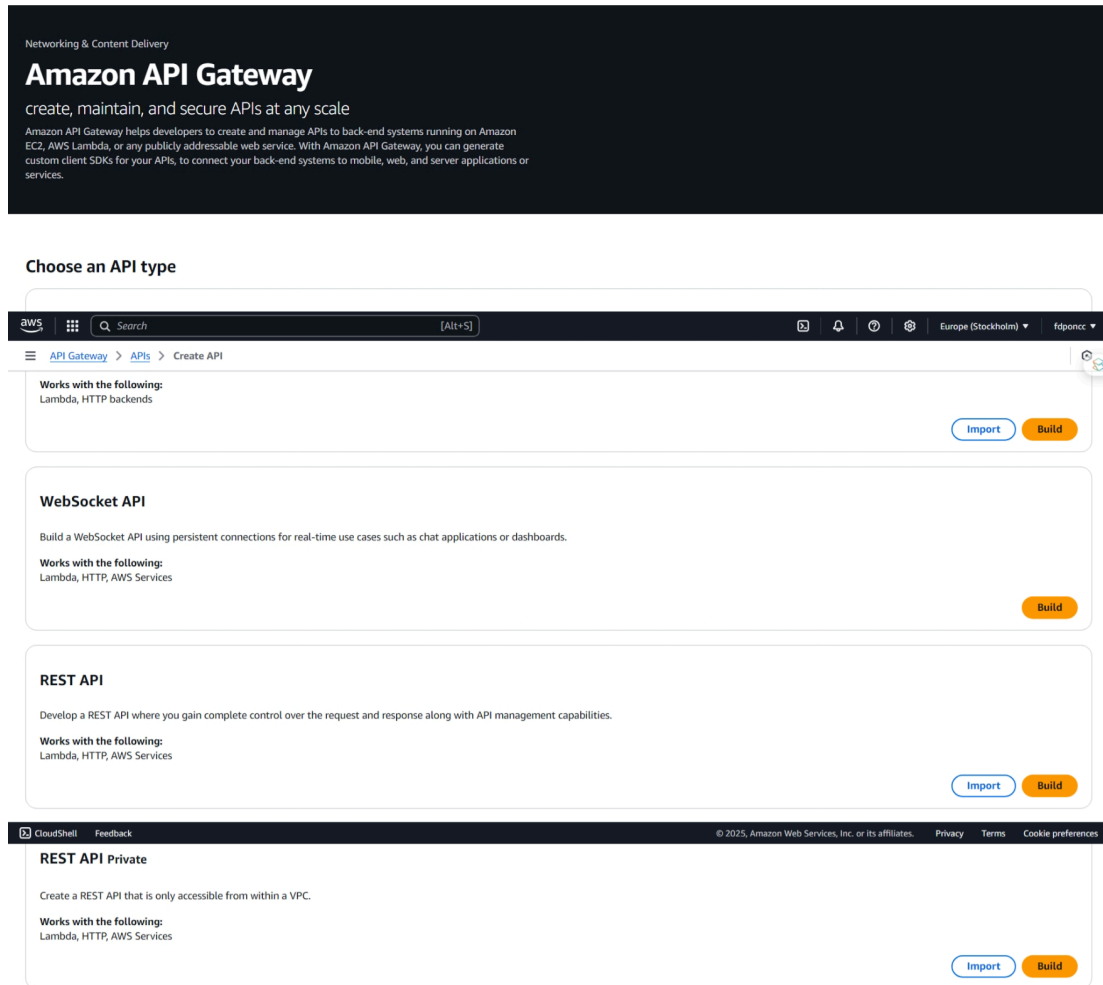


## LAMBDA CODE SAMPLES

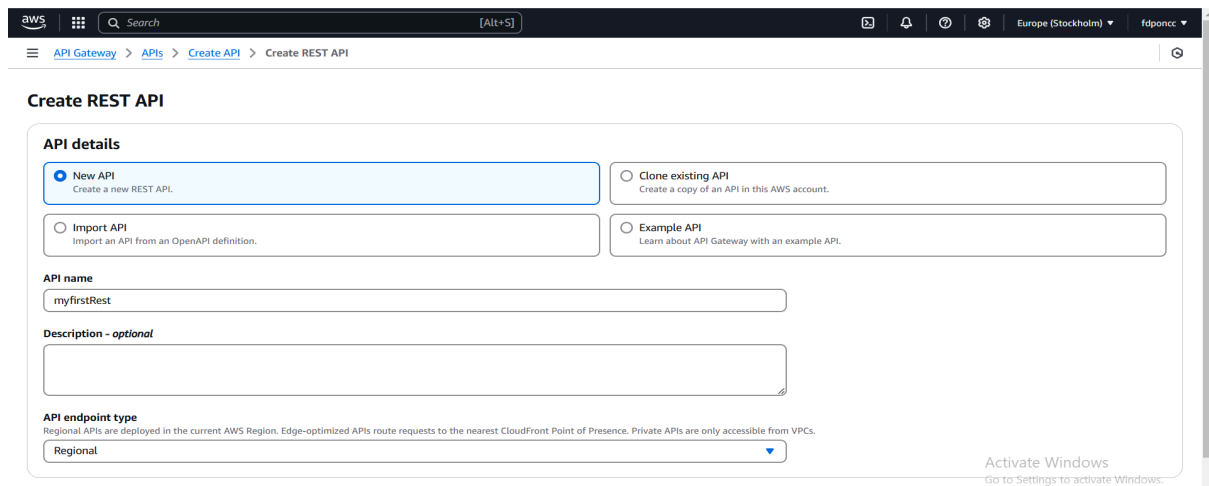
```
import json

print(json.dumps({"name": "John",
                  "age": 30}))
print(json.dumps(["apple", "banana
s"]))
print(json.dumps(("apple", "banana
s")))
print(json.dumps("hello"))
print(json.dumps(42))
print(json.dumps(31.76))
print(json.dumps(True))
print(json.dumps(False))
print(json.dumps(None))
```

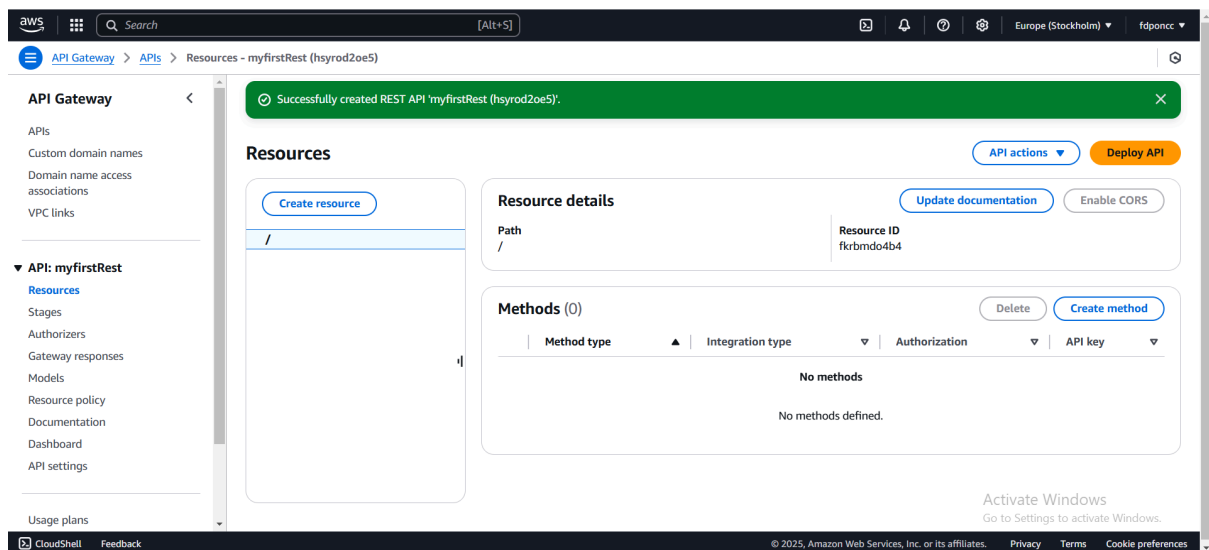
## START FOR P4 : GO TO API GATEWAY IN CONSOLE AND SELECT REST API



## BUILD REST API

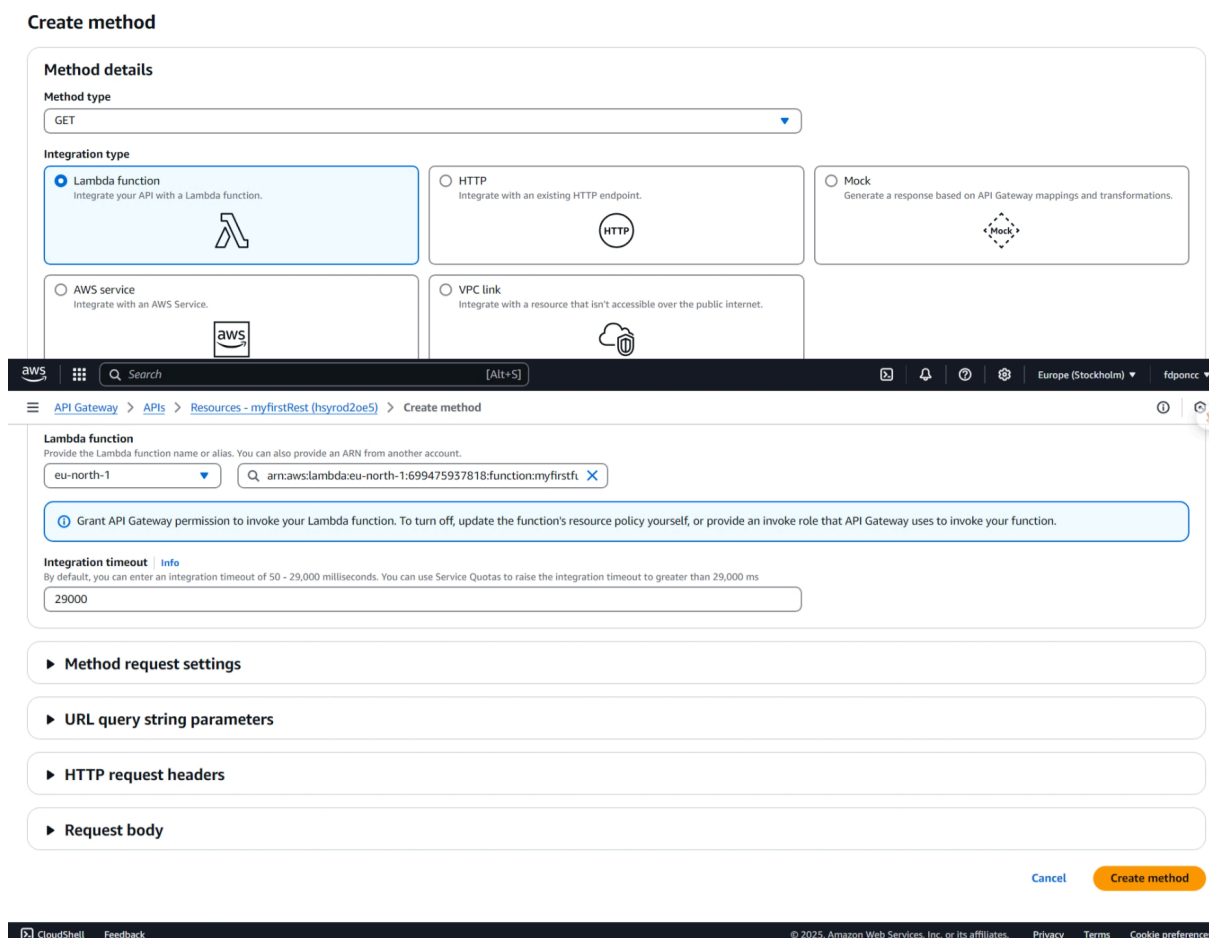


## CREATE AN API WITH ABOVE OPTIONS



## CREATE METHOD AND SELECT LAMBA INTEGRATION

## SELECT GET METHOD AND LAMBDA CREATED (PREVIOUSLY)



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API Gateway > APIs > Resources - myfirstRest (hsyrod2oe5)

Successfully created method 'GET' in '/'. Redeploy your API for the update to take effect.

### Resources

Create resource

/

GET

#### / - GET - Method execution

ARN: `arn:aws:execute-api:eu-north-1:699475937818:hsyrod2oe5/*/GET/` Resource ID: `frbmdo4b4`

API actions: Deploy API

Update documentation Delete

Client → Method request → Integration request → Lambda integration

← Method response ← Integration response ←

Method request Integration request Integration response Method response Test

----- TO TEST API -----

DEPLOY API

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API Gateway > APIs > Resources - myfirstRest (hsyrod2oe5)

API Gateway

- APIs
- Custom domain names
- Domain name access associations
- VPC links

API: myfirstRest

- Resources
- Stages
- Authorizers
- Gateway responses
- Models
- Resource policy
- Documentation
- Dashboard
- API settings

Usage plans

CloudShell Feedback

Successfully created deployment for myfirstRest. This deployment is active for NEWDEPLOY.

### Resources

Create resource

/

Method request

Integration request

Integration response

Method response

Test

Deploy API

Update documentation

Enable CORS

Delete

Create method

Authorization

API key

Activate Windows

Go to Settings to activate Windows.

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API Gateway > APIs > Stages - myfirstRest (hsyrod2oe5)

Successfully created deployment for myfirstRest. This deployment is active for NEWDEPLOY.

### Stages

Stage actions Create stage

NEWDEPLOY

#### Stage details Info

Stage name: NEWDEPLOY

Cache cluster: Inactive

Default method-level caching: Inactive

Invoke URL: `https://hsyrod2oe5.execute-api.eu-north-1.amazonaws.com/NEWDEPLOY`

Active deployment: `tu4pq0` on February 03, 2025, 12:24 (UTC+05:30)

Rate: 10000

Burst: 5000

Web ACL: -

Client certificate: -

Logs and tracing Info

CloudWatch logs Detailed metrics Data tracing

Activate Windows

Go to Settings to activate Windows.

## USE URL AND COPY IN NEW TAB

