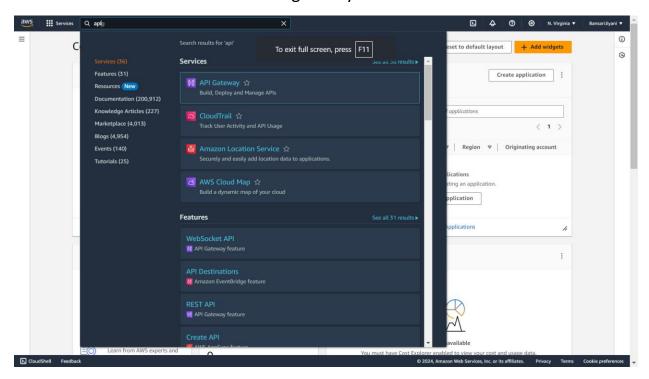
#### What is API gateway?

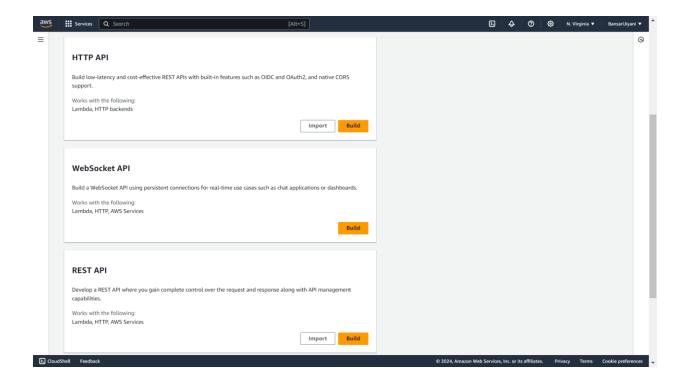
 Amazon API Gateway is an AWS service for creating, publishing, maintaining, monitoring, and securing REST, HTTP, and WebSocket APIs at any scale. API developers can create APIs that access AWS or other web services, as well as data stored in the AWS Cloud. As an API Gateway API developer, you can create APIs for use in your own client applications. Or you can make your APIs available to third-party app developers.

#### PRACTICAL:

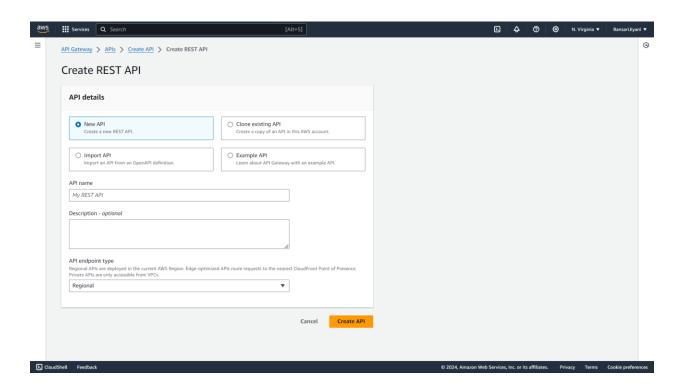
1. How create API. Go to the API gateway



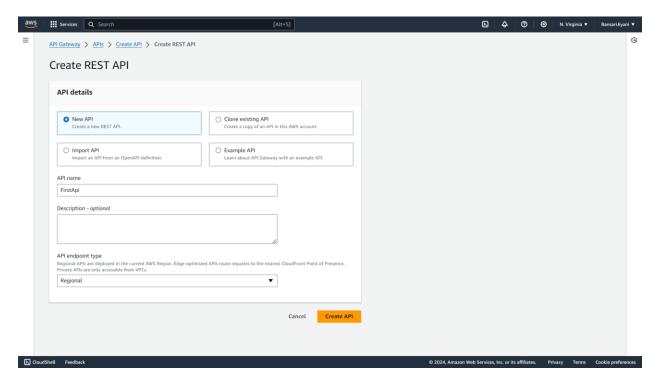
2. There is many types of API. you can see here.



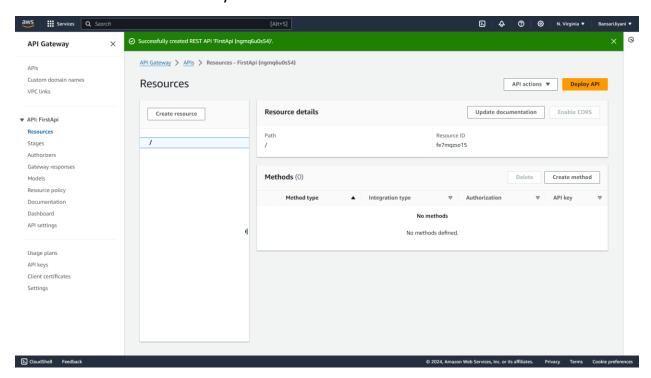
#### 3. We create REST API.



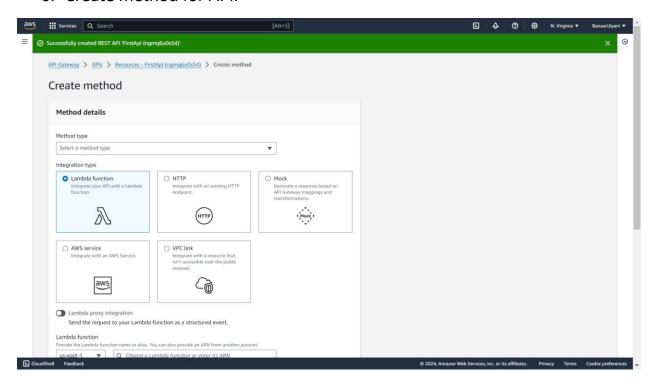
4. Give the name of API and select the API endpoint type Regional. And create API.



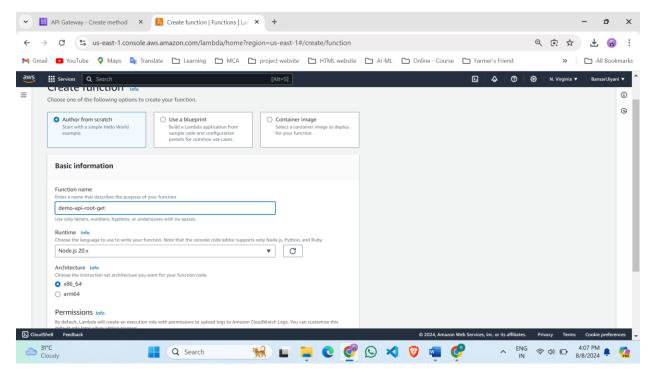
5. Our API is successfully created.



6. Create method for API.



7. For create API we need a lambda function so first we create lambda function than create API and select python Runtime

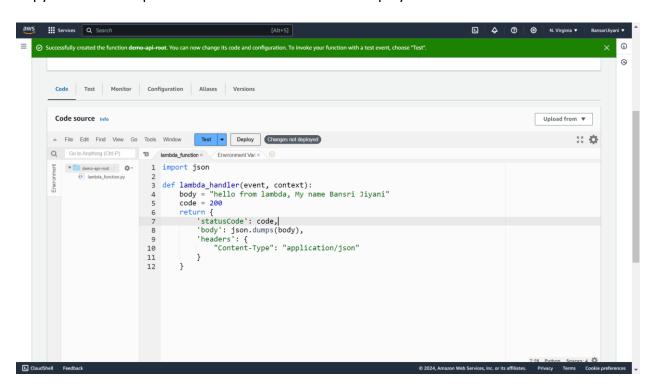


# It is my lambda code

```
import json

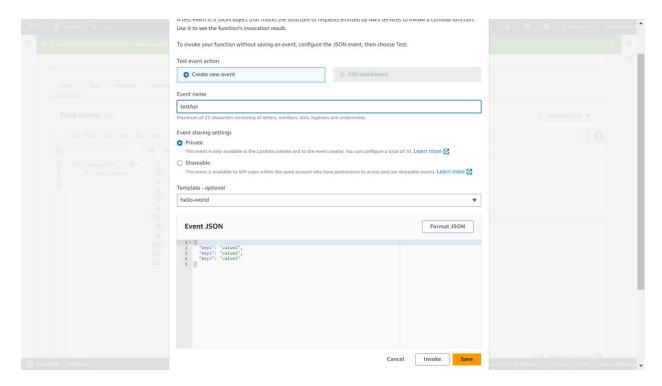
def lambda_handler(event, context):
   body = "hello from lambda, My name Bansri Jiyani"
   code = 200
   return {
       'statusCode': code,
       'body': json.dumps(body),
       'headers': {
            "Content-Type": "application/json"
       }
   }
}
```

Copy this code and paste it into lambda function and deploy it

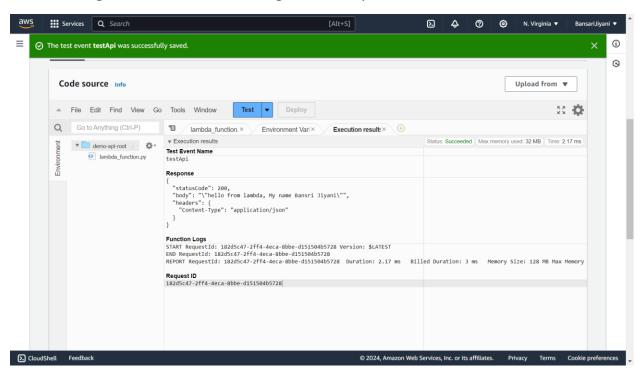


We can also check it is working or not.

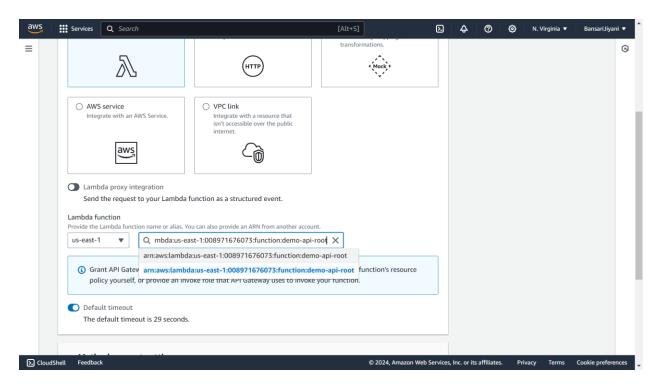
Go to the Test and create event and save it and again test it.



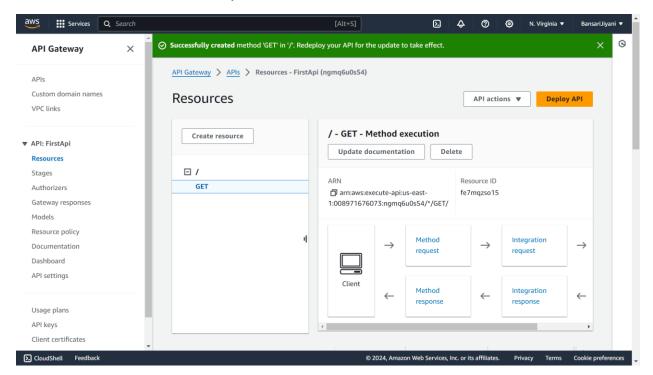
When we again test it than we can get the Output



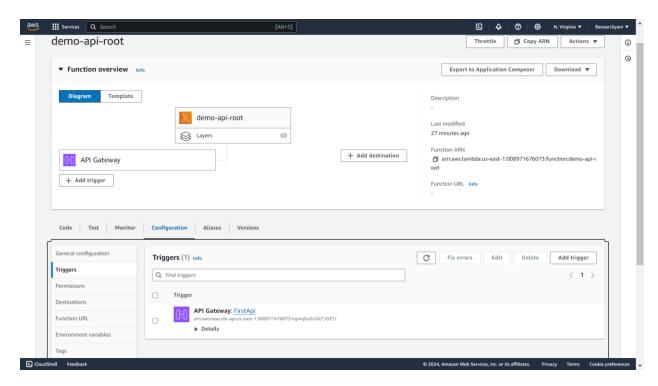
Copy the URL of function and paste it in API creation and create the method



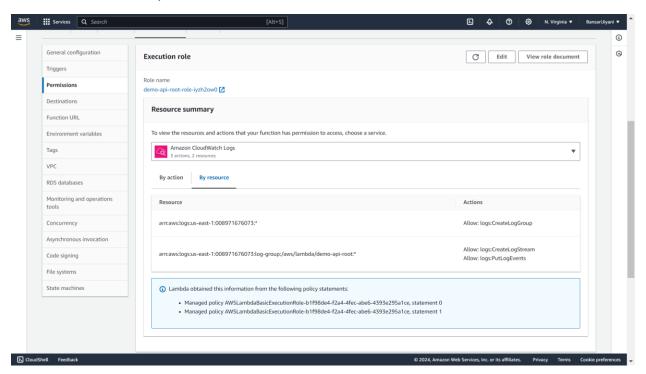
# Now API is automatic runway



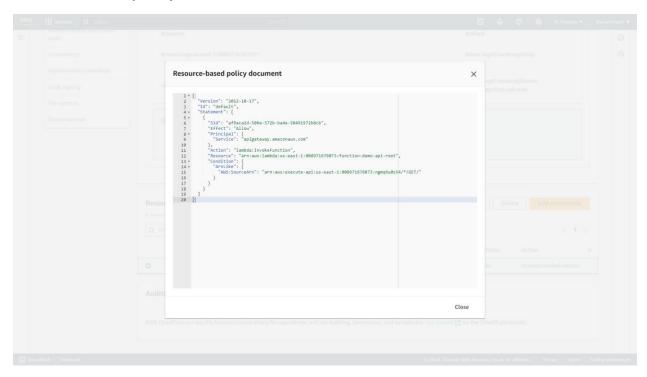
We can check API configuration in lambda function



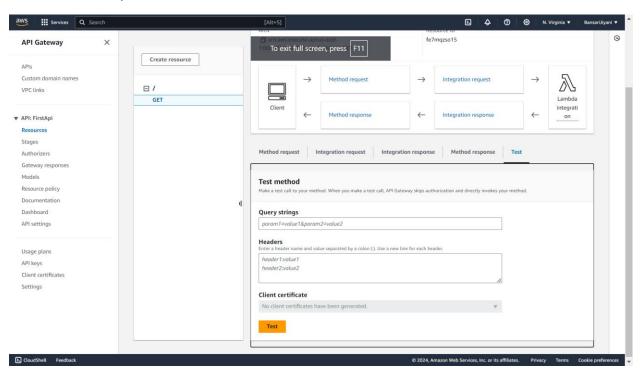
# And also check the permission



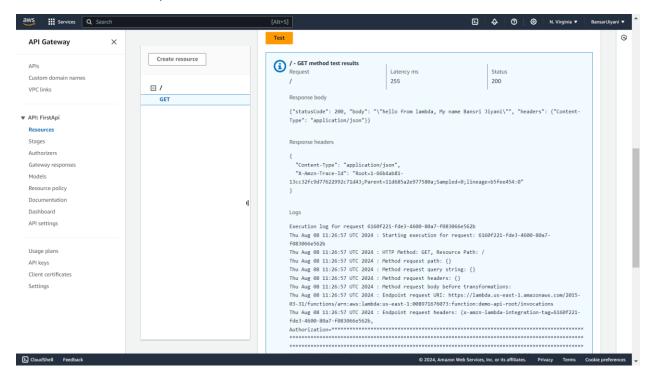
# Check the view policy of API



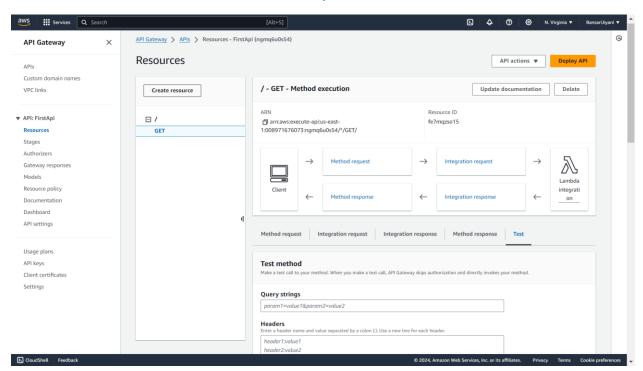
# Now test the api

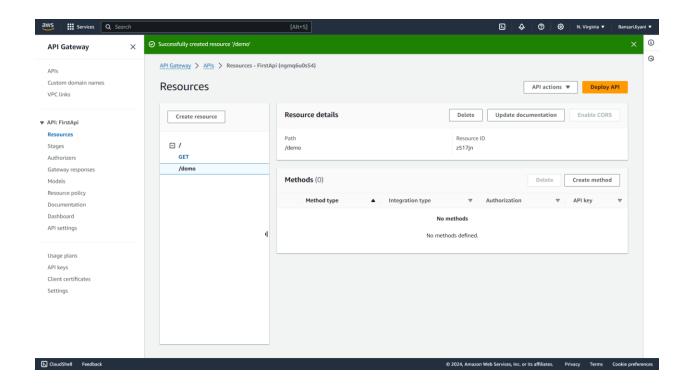


# We can see the response



#### Now we create a new resourse in GET reqest

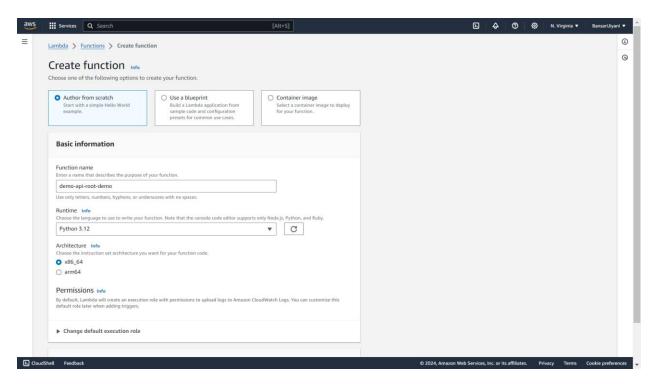




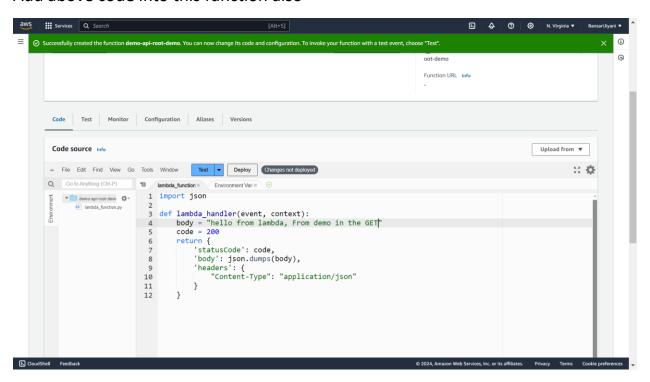
In this demo we create another new method

And for create new method we need the lambda function so firstly create it and then we create new method.

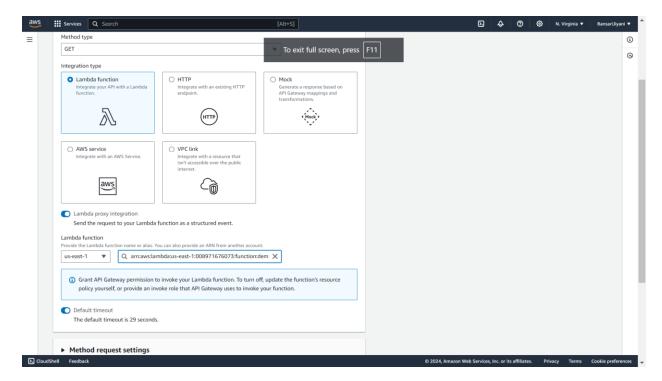
Create lambda fun:-



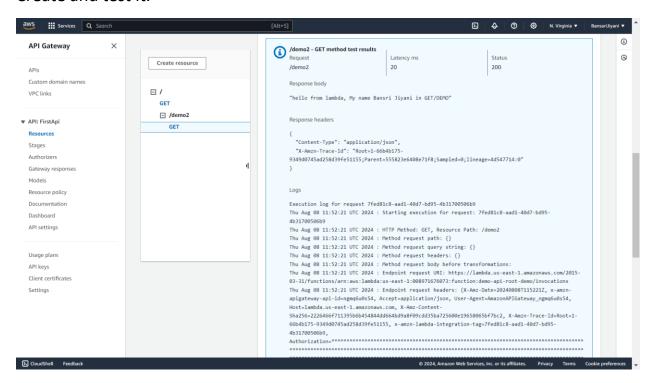
#### Add above code into this function also



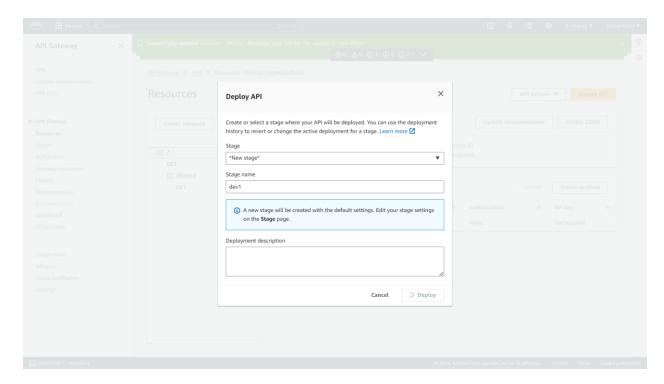
Copy this ARN link and paste it into new demo api



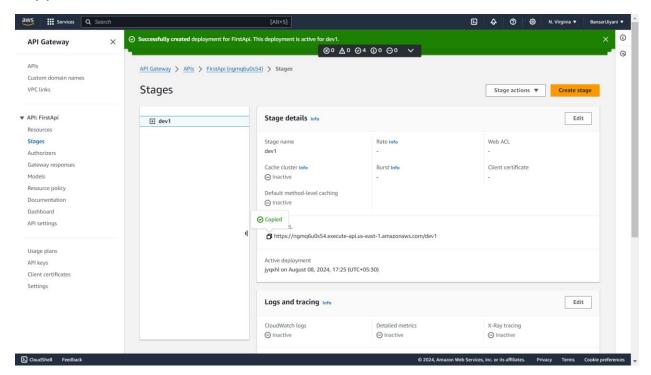
#### Create and test it.



Now we deploy or test API using browser

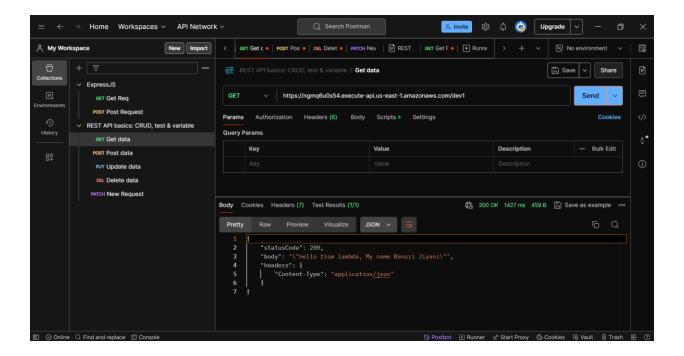


# Copy this invoke URL



And paste it in browser

#### Check this get req in postman



# For root api give this path:

