Andhra Pradesh State Skill Development Corporation

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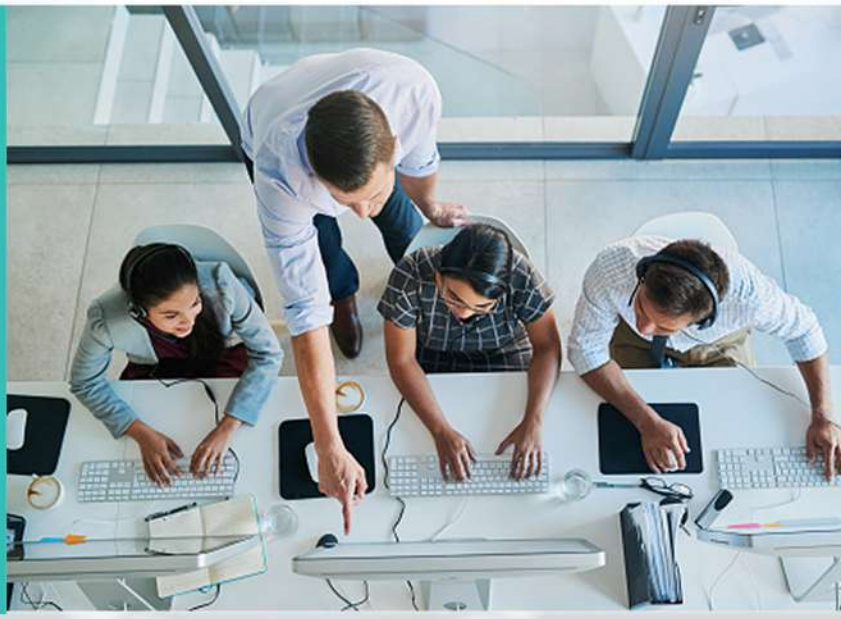


AWS CLOUD COMPUTING

LAMBDA

Configuration of AWS Lambda

AWS Lambda

AWS Lambda lets you run code without provisioning or managing servers. You pay only for the compute time you consume.

With Lambda, you can run code for virtually any type of application or backend service - all with zero administration. Just upload your code and Lambda takes care of everything required to run and scale your code with high availability.

You can set up your code to automatically trigger from other AWS services or call it directly from any web or mobile app.

Use Cases

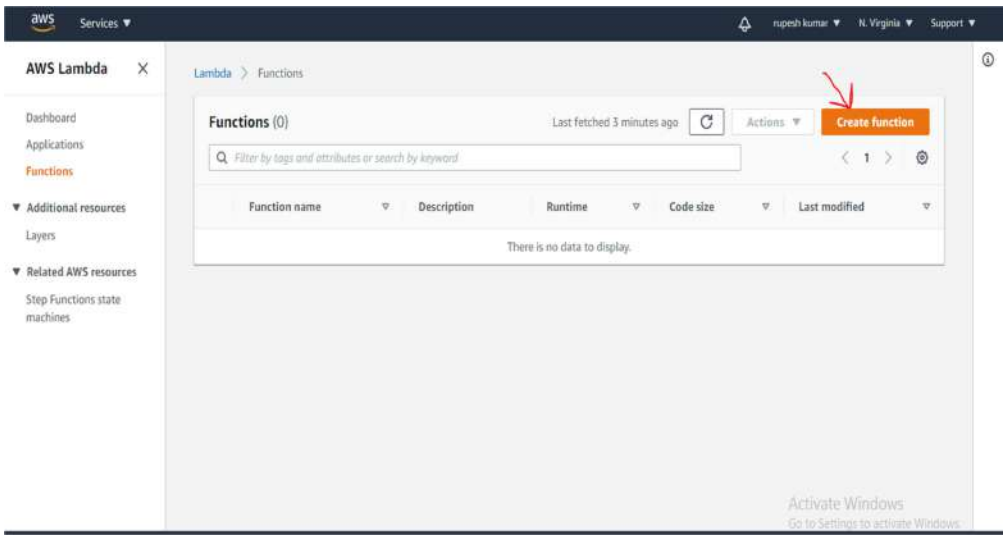
1. Data processing
2. Real-time file processing
3. Real-time stream processing
4. Machine learning
5. Web applications
6. IoT backends
7. Mobile backends

Benefits

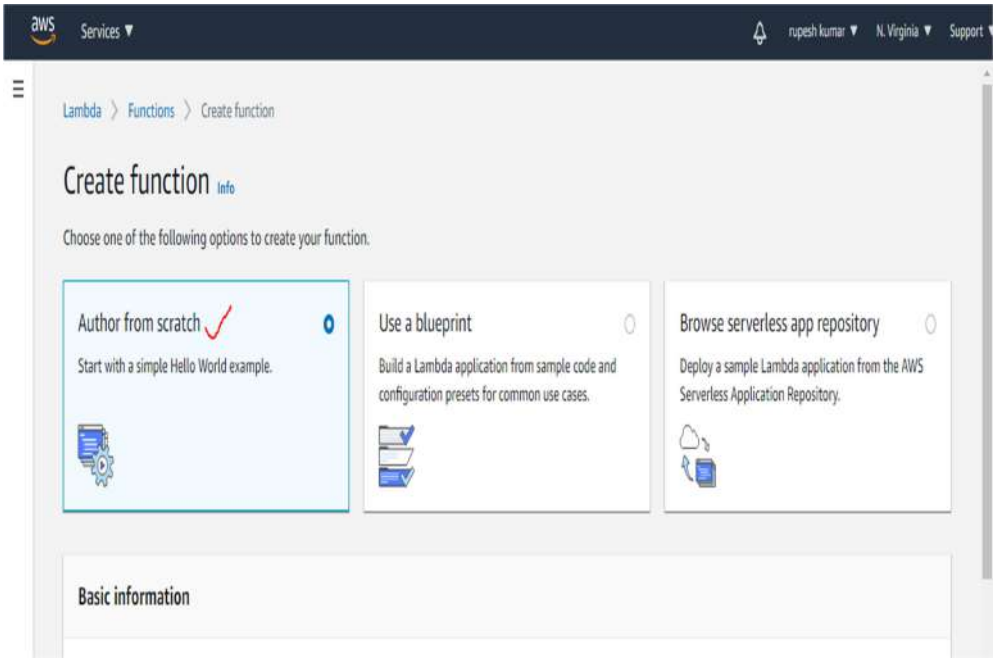
1. No servers to manage
2. Continuous scaling
3. Subsecond metering
4. Consistent performance

From the AWS management console, click on services and search for AWS lambda in the search box and click on it.

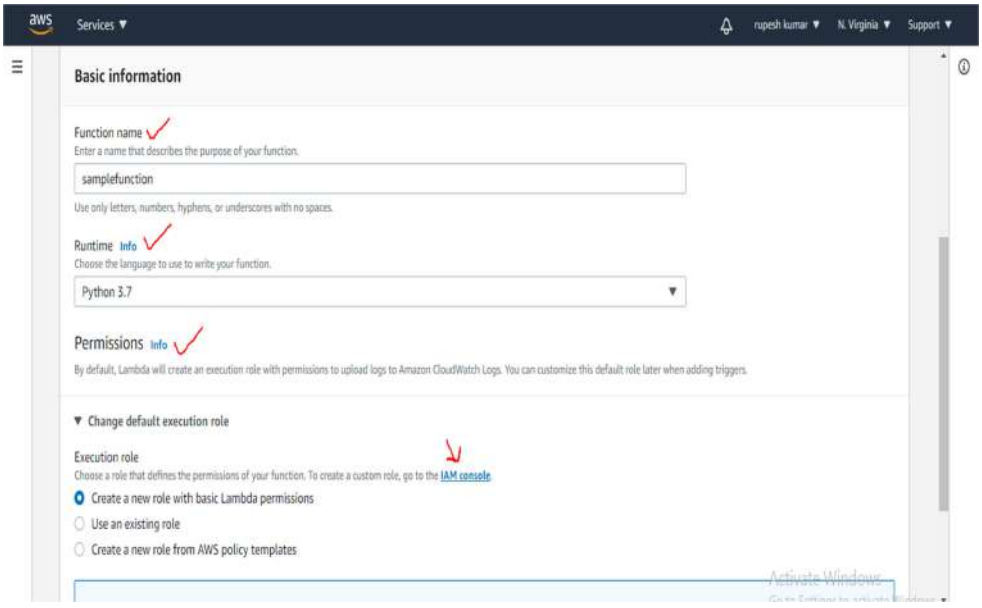
- Click on **create function.**



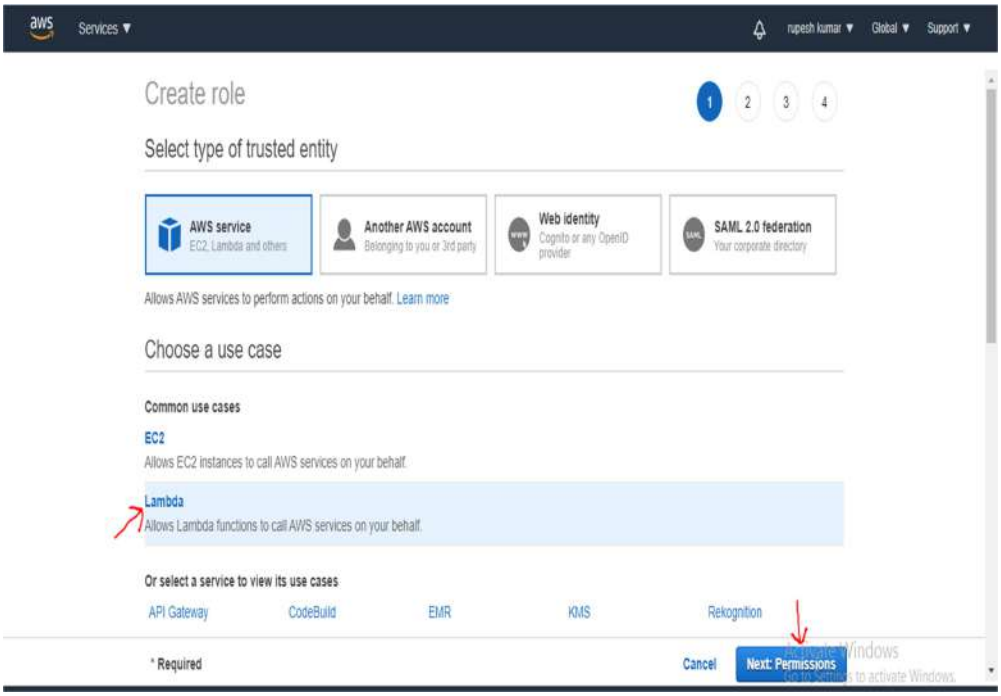
- Select **Author from scratch**



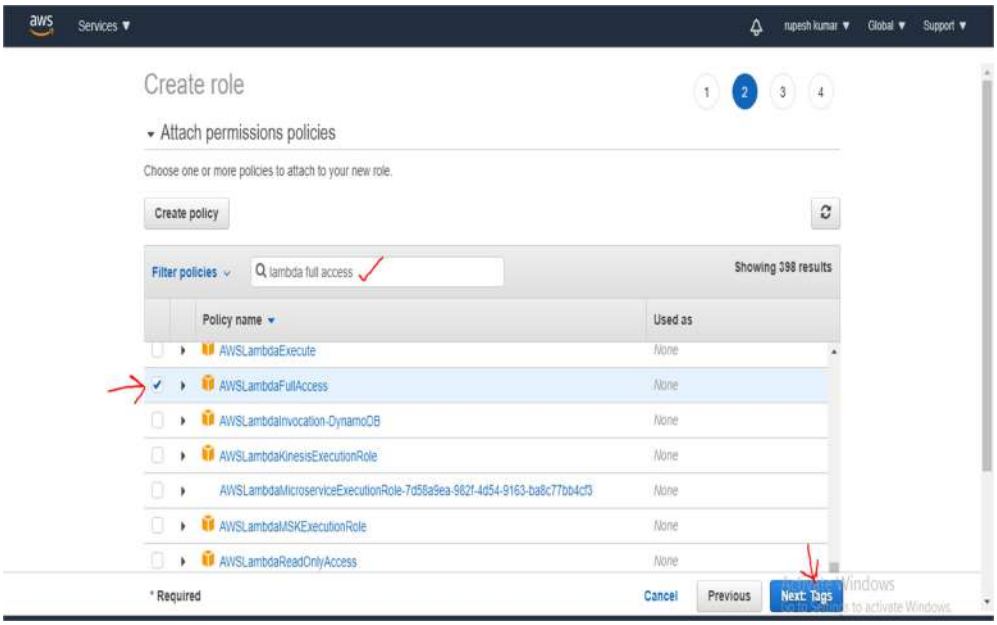
- Give a **function name** and select **runtime.**
- Under **permissions**, click on **change default execution role.**
- Select Create a new role with basic Lambda permissions.
- Then click on the **IAM Console.**



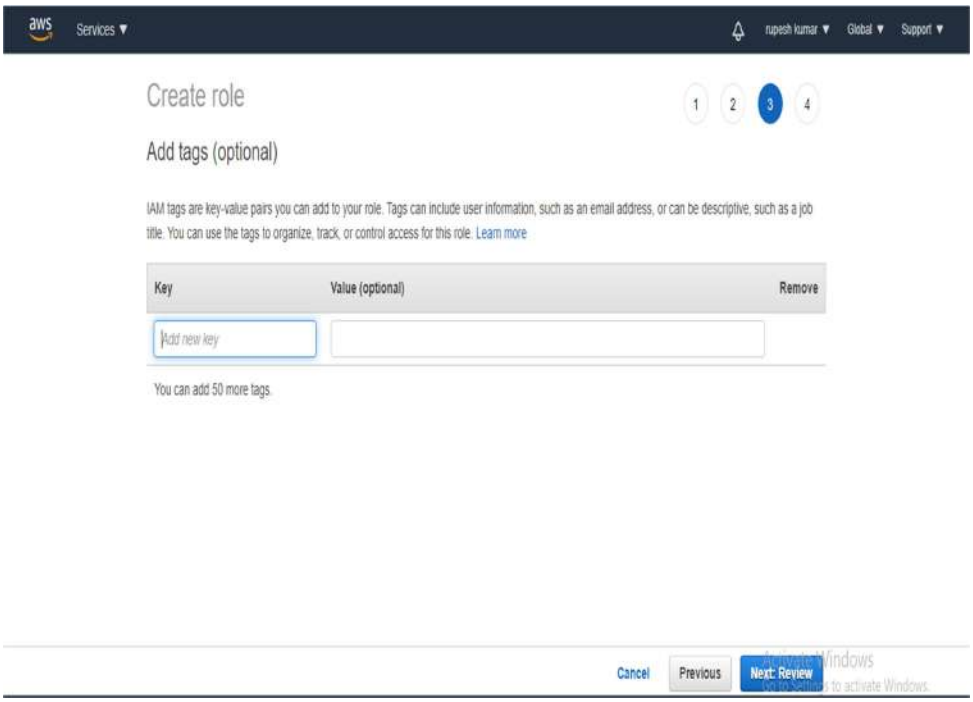
- Select **lambda** and click on **permissions.**



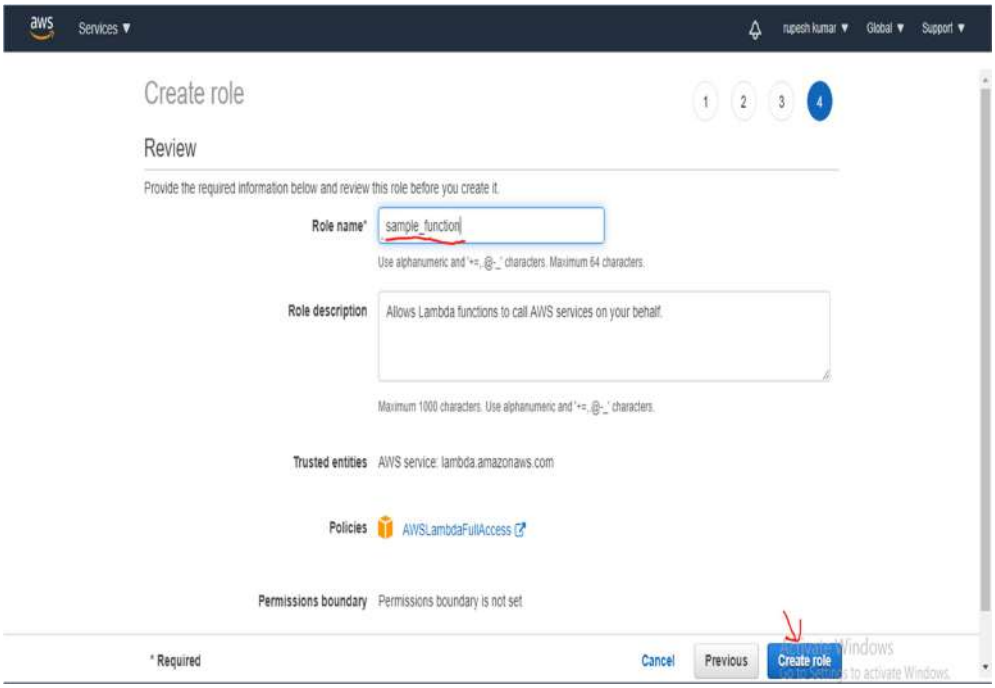
- Search for **AWS Lambda Full Access**, then select AWS Lambda full access.
- Click on **tags.**

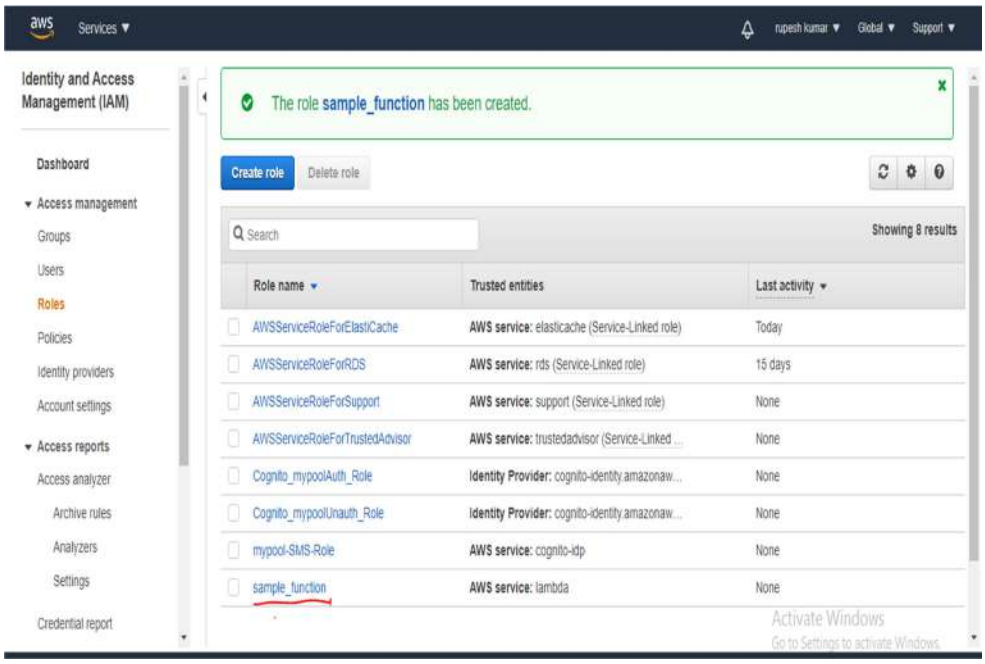


- If you want to add tags then you can add here, then click on review.

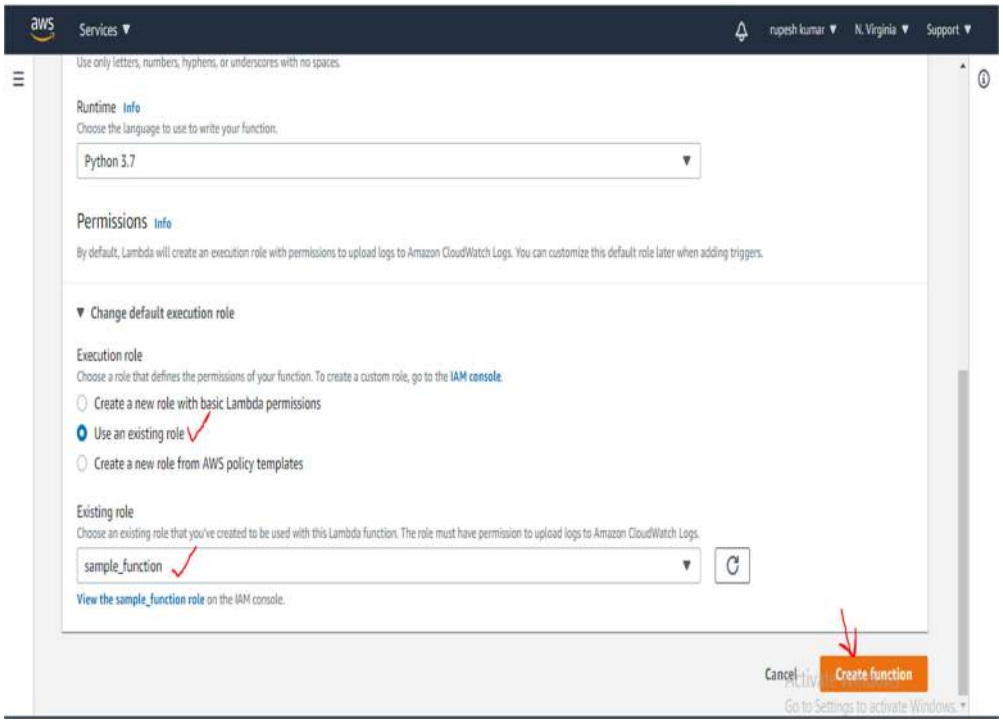


- Give a **role name** and click on **create role.**

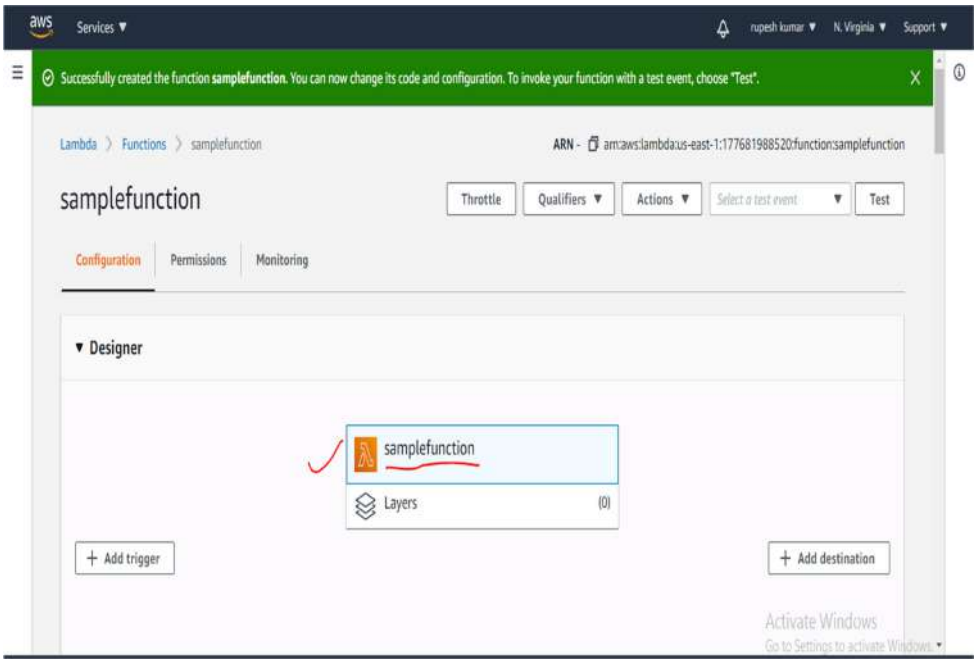




- Come back to the lambda **console** and select **Use an existing role** then select your **created role**.
- Click on **create function**.

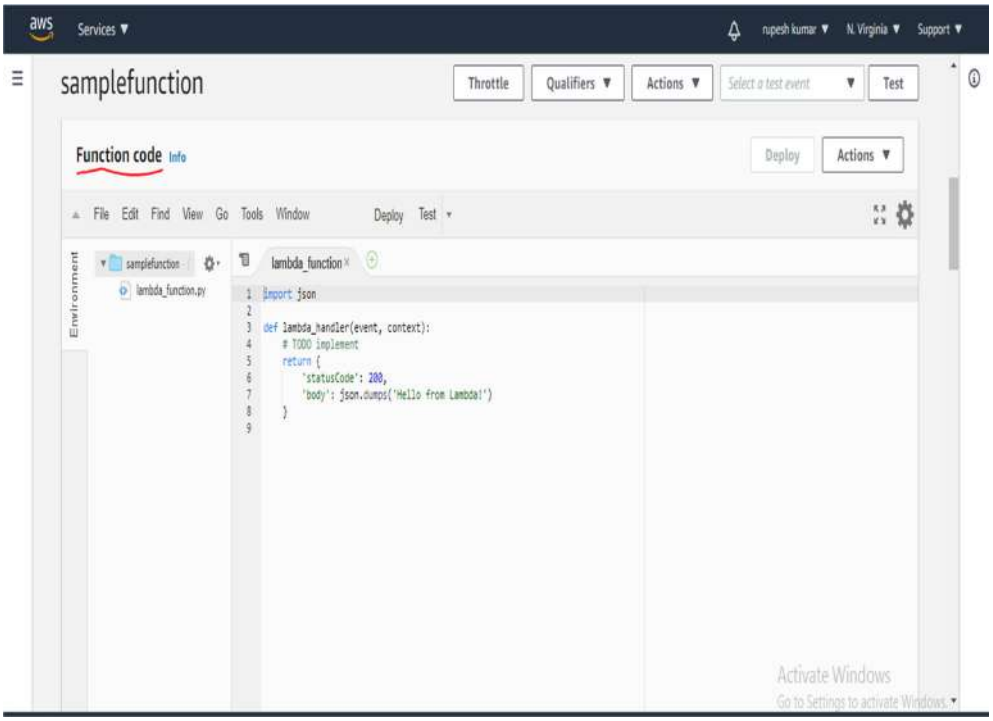


- Click on **function name.**



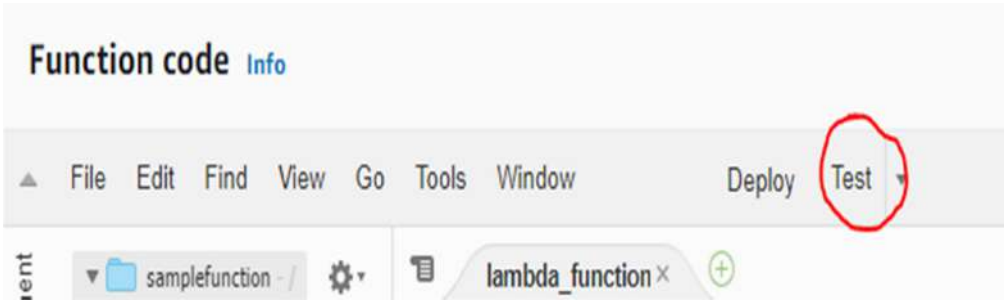
- Here you can see the **function code**, if you want to change the code as per your requirement then you can change.

- The code format is **json**.



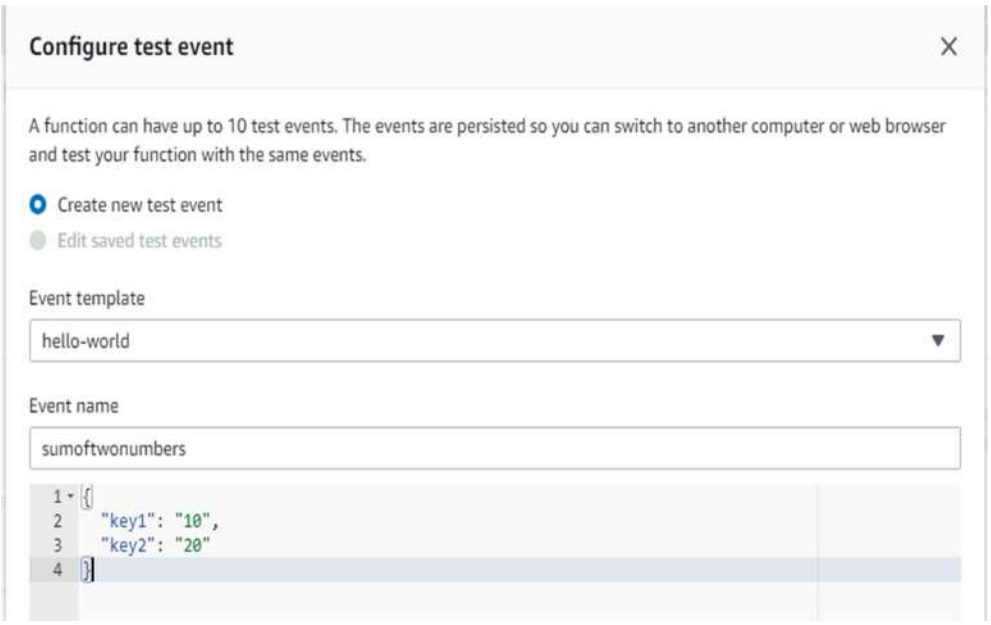
Simple arithmetic operation:
Sum of two numbers

- Assign events, for that click on **test**.



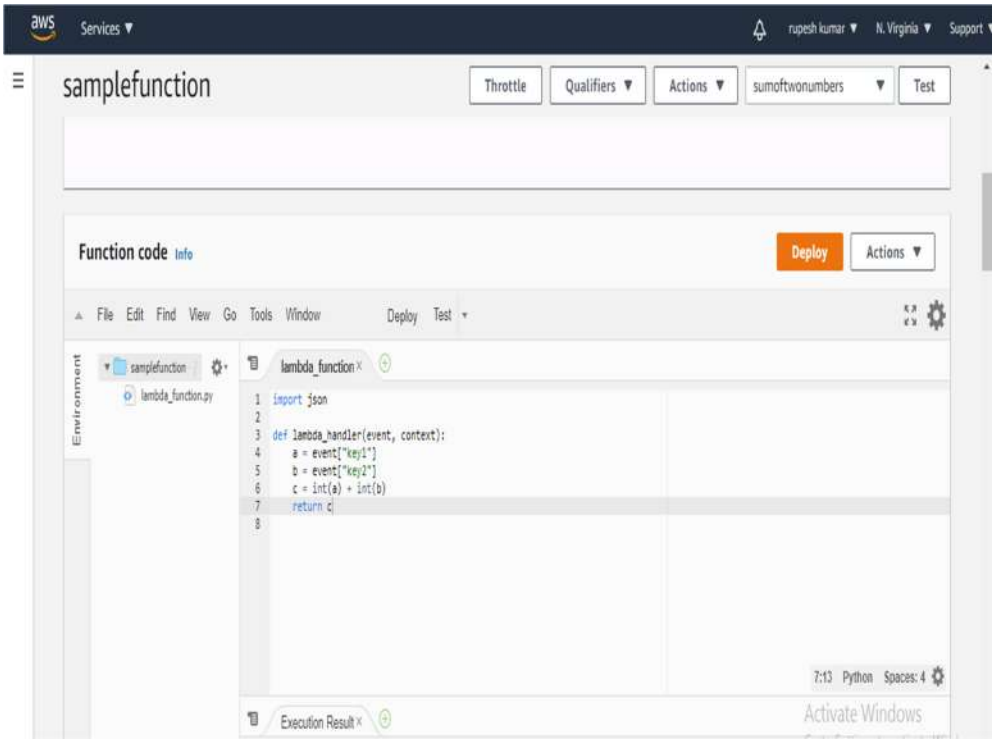
- Give an **Event template** as per your requirement and give the **event name**.
- Assign some values to keys.

```
{
  "key1": "10",
  "key2": "20"
}
```



- Scroll down and click on **create**.

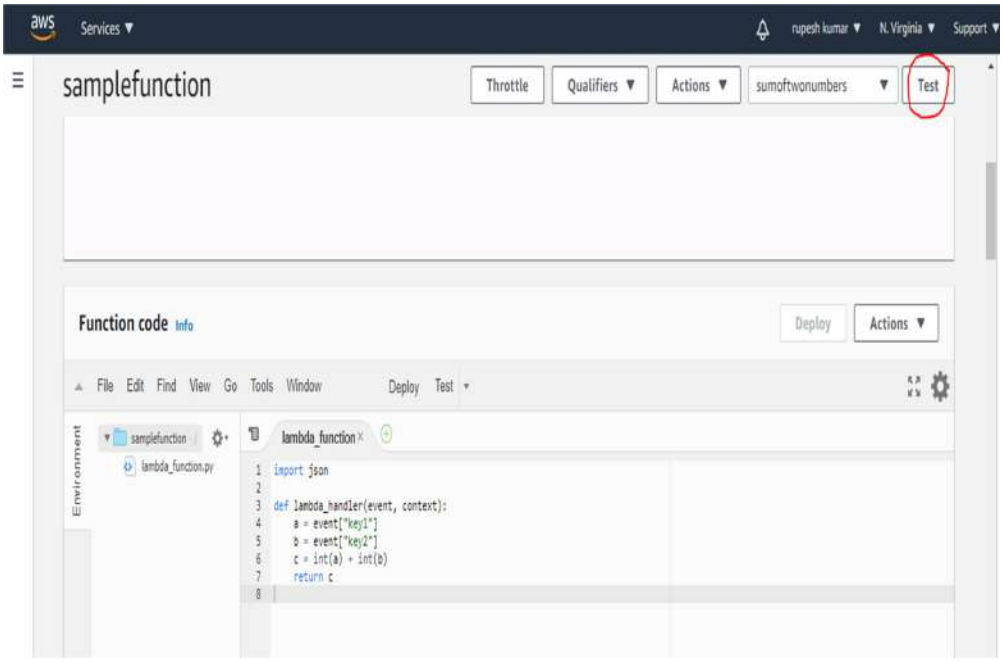
- Now you can write your code in lambda function, as shown below.
- Click on **deploy**.




```
import json

def lambda_handler(event, context):
    a = event["key1"]
    b = event["key2"]
    c = int(a) + int(b)
    return c
```

- Click on **test**.



- **Response** is shown in the below picture.
- **Response:30**