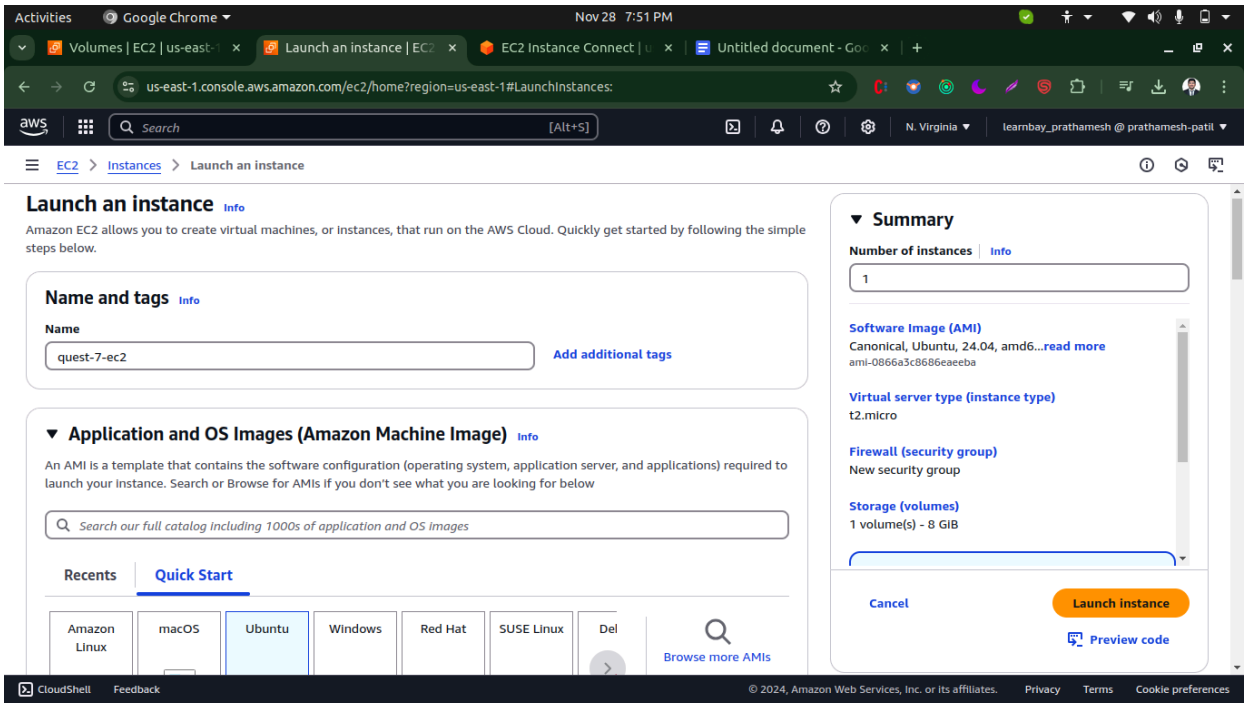
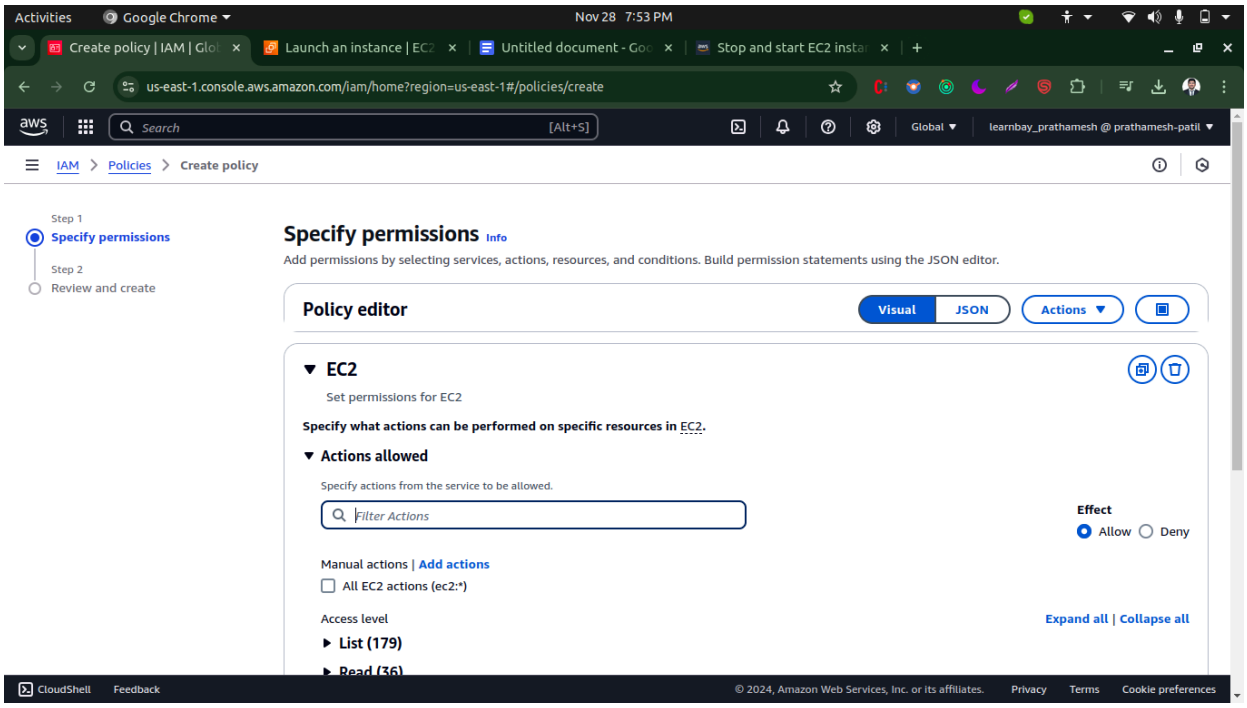
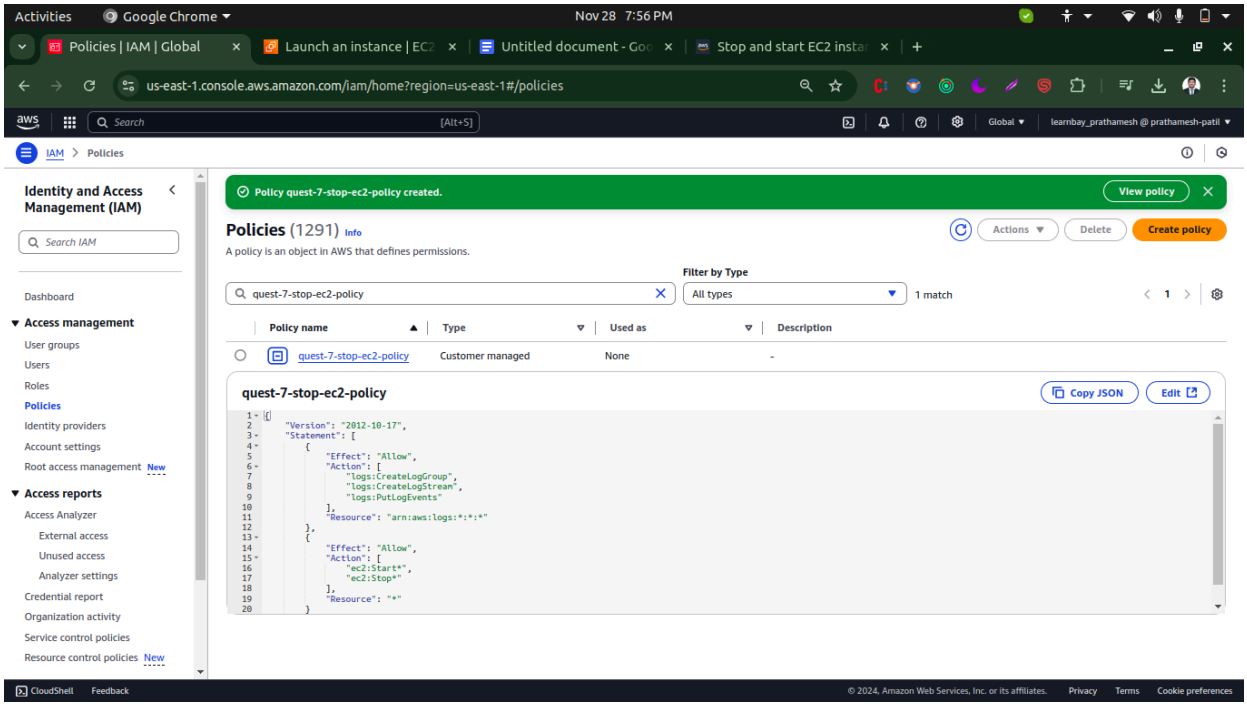
7) Create 1 Lambda function to stop the instance if it is running. You can use Google help to take the code if Java/ Nodejs / python to write inside the lambda editor (20 marks)



Go to IAM tab → select policies → create new poliy

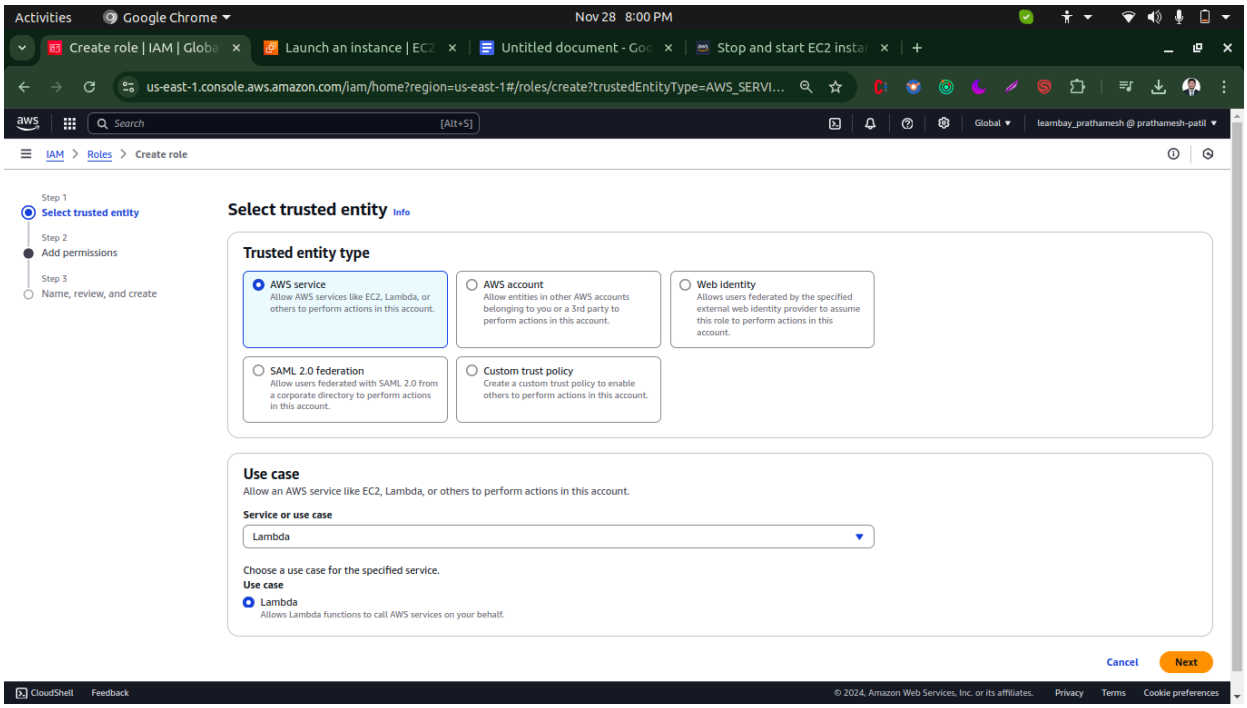


Go to https://repost.aws/knowledge-center/start-stop-lambda-eventbridge (official docs) copy policy and paste in JSON editor → click on Next → give policy name (quest-7-stop-ec2-policy) →click on create

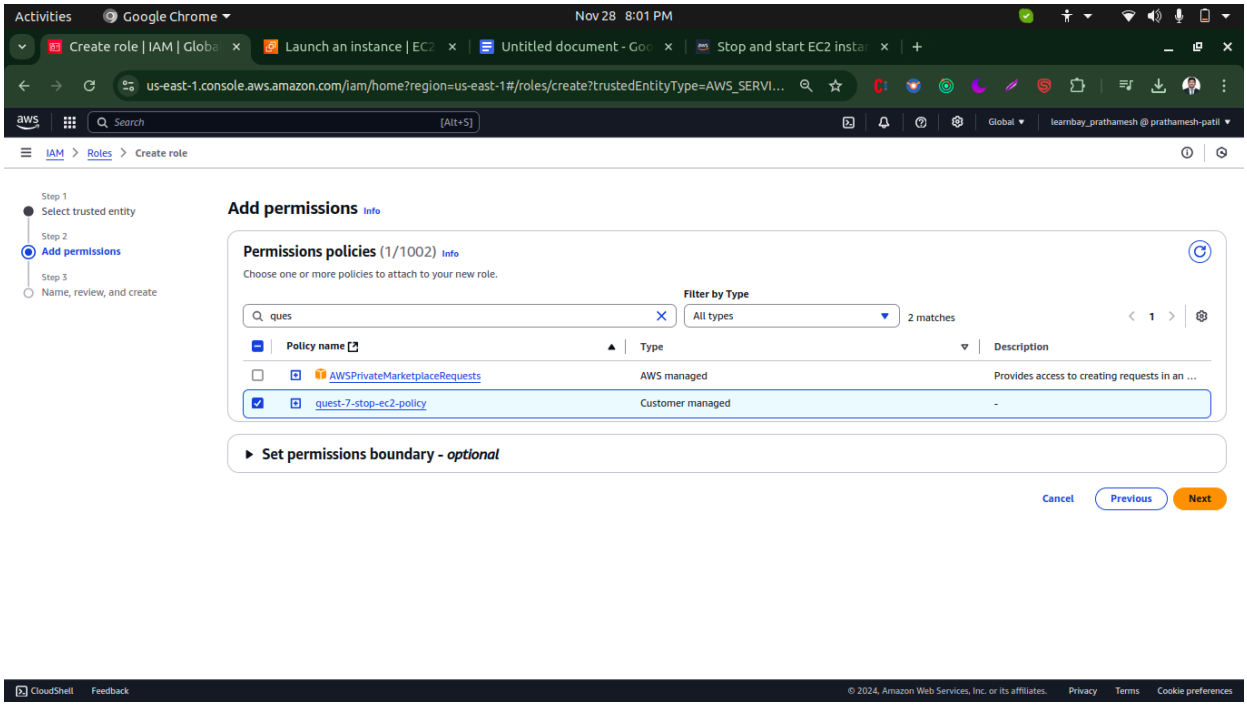


you can verify the policy here

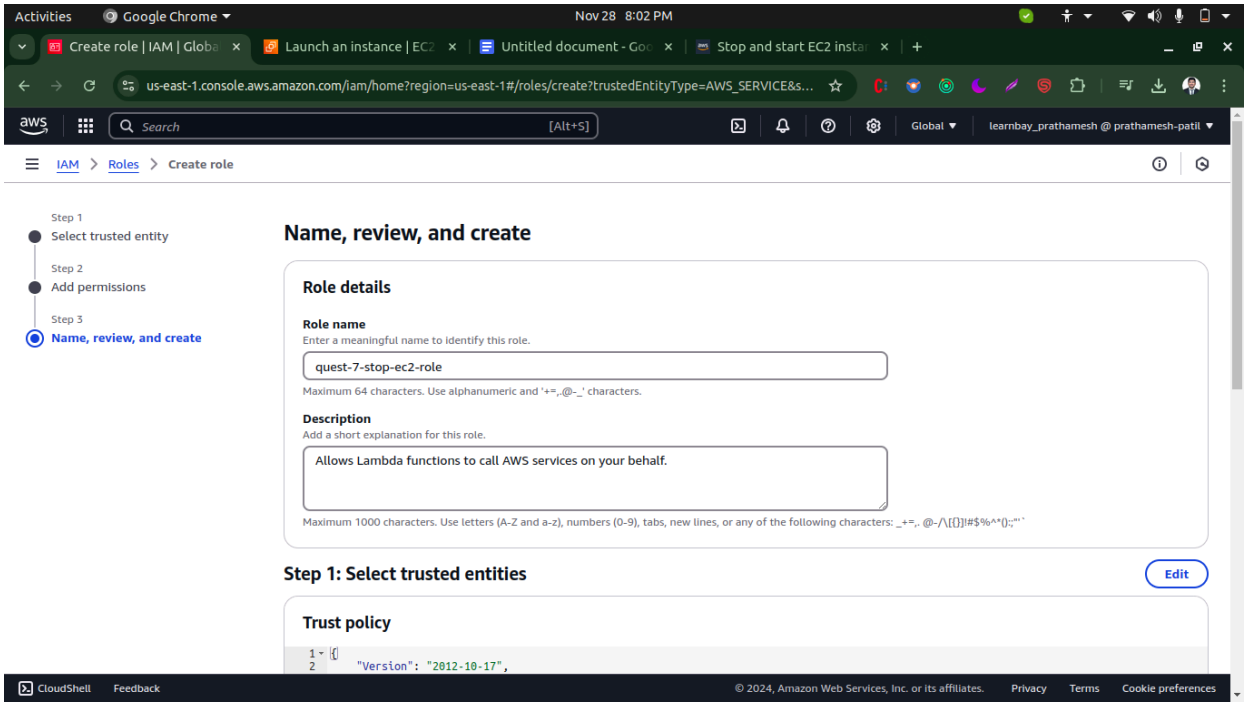
Now go to Roles tab → click on create role → then click on AWS services → select Lamda in use case



Select our new policy (quest-7-stop-ec2-policy)



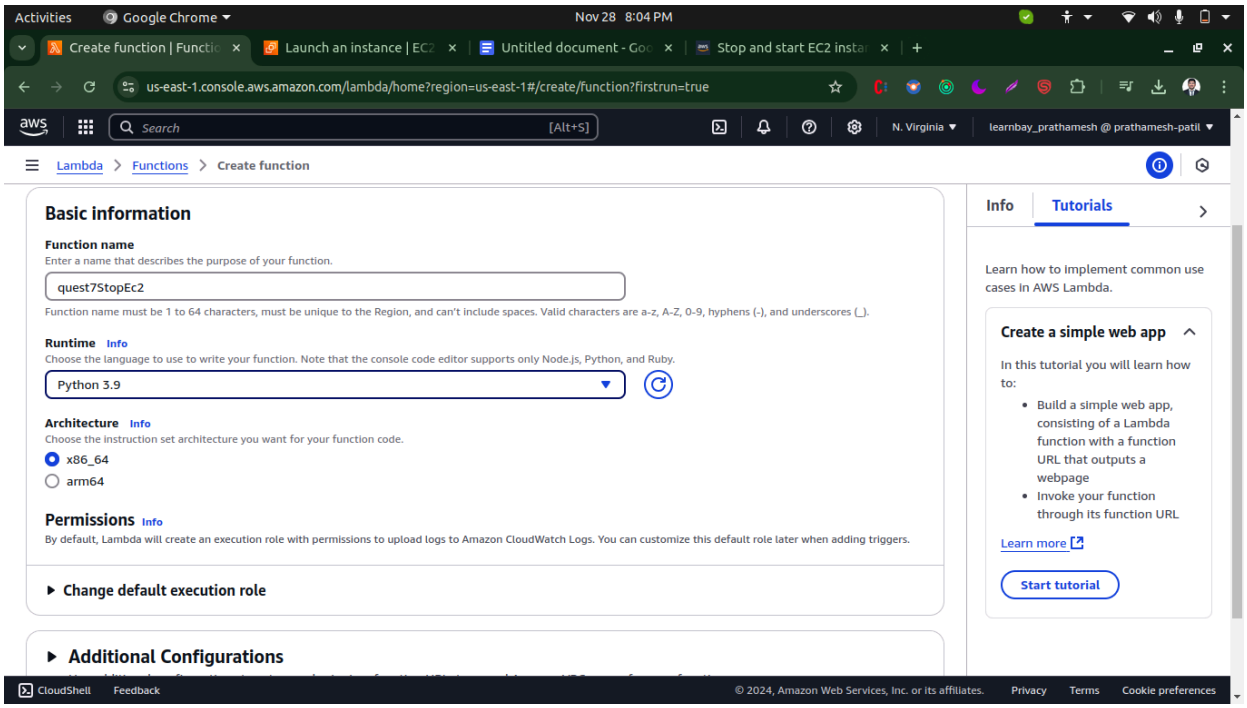
Give role name(quest-7-stop-ec2-role) → click on create role



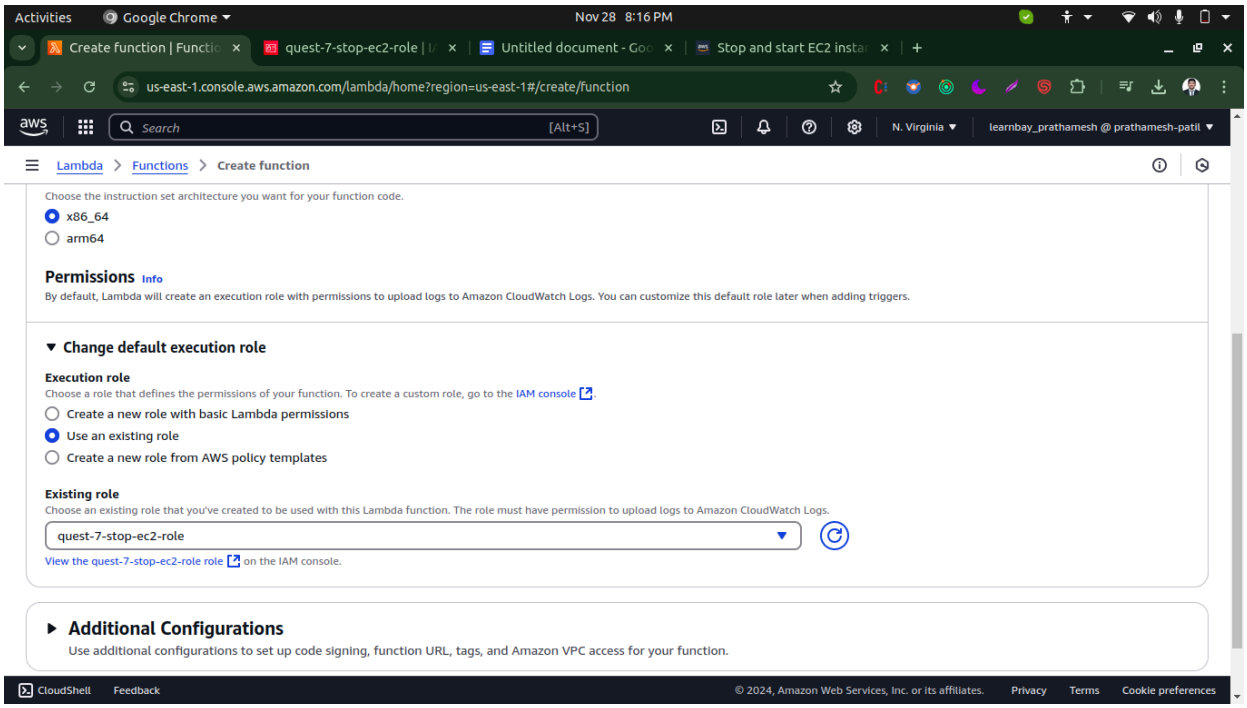
Go to Lamda tab

Click on Create function

Choose Author from scratch. → Give function name - quest7StopEc2 → Select runtime - python 3.9

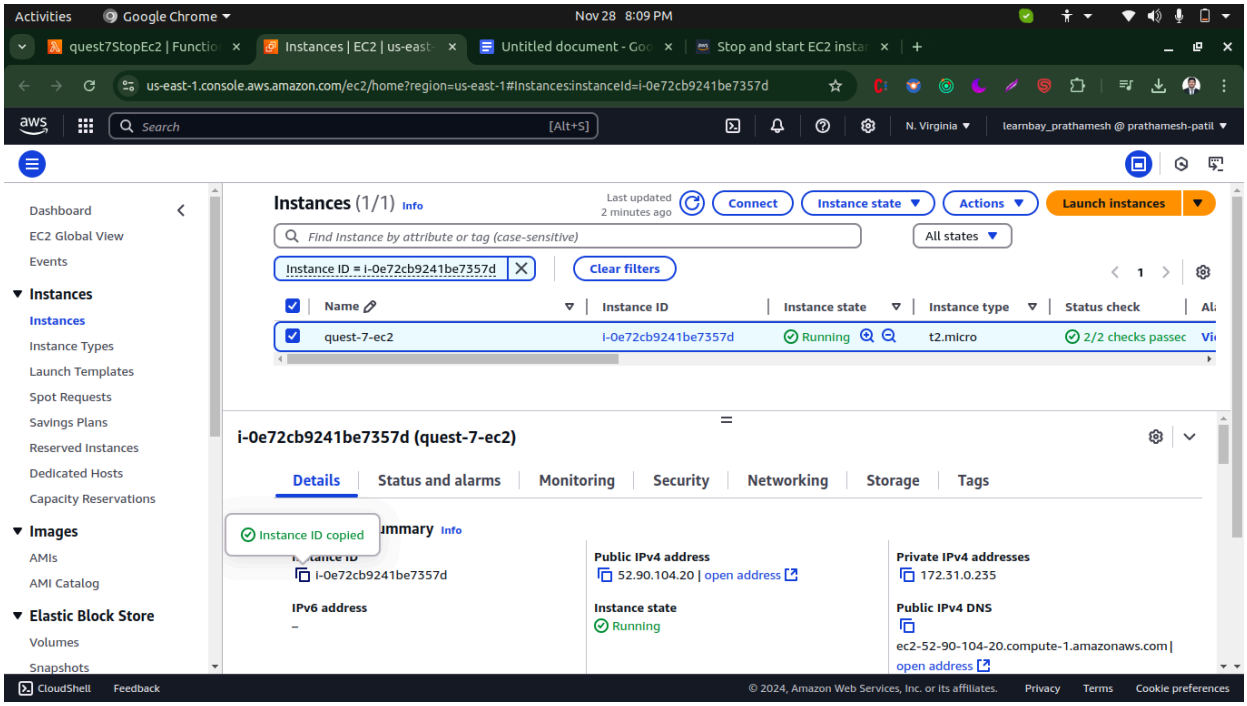


Under Permissions, expand Change default execution role. → Under Execution role, choose Use an existing role. → Under Existing role, choose the IAM role.(quest-7-stop-ec2-role)



Create lambda

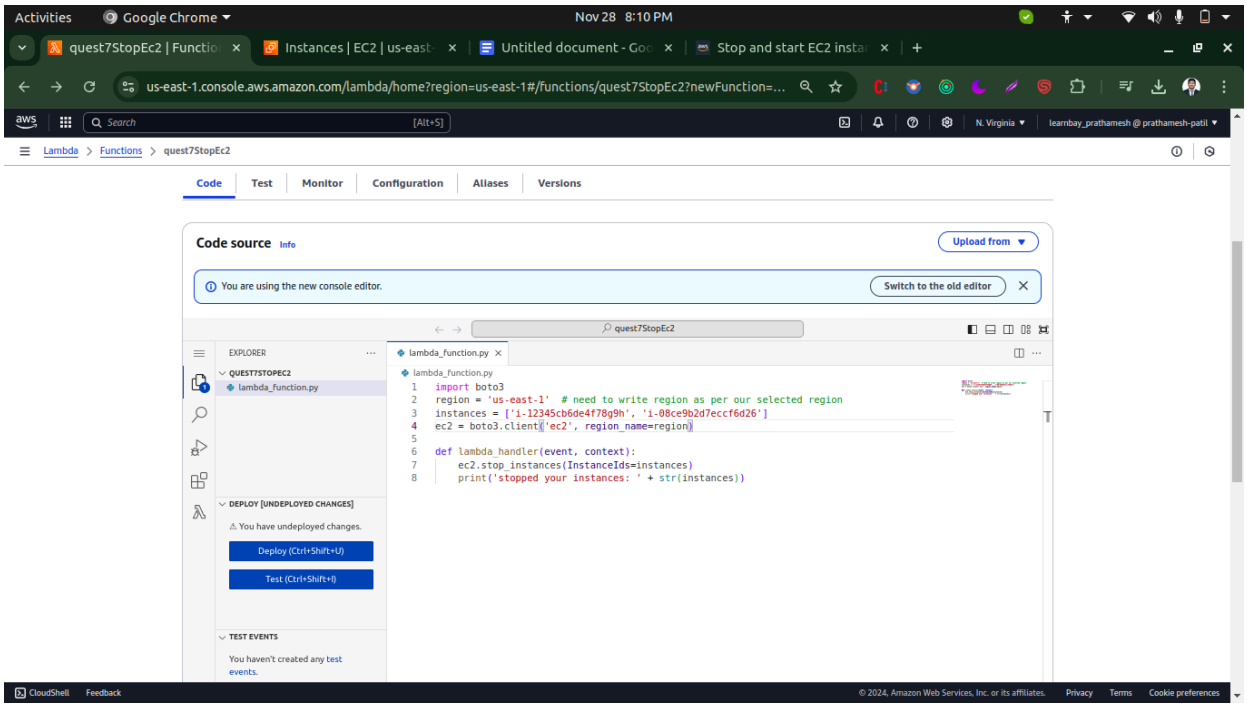
Copy the instance id from instances tab



Now here in code editor write below code

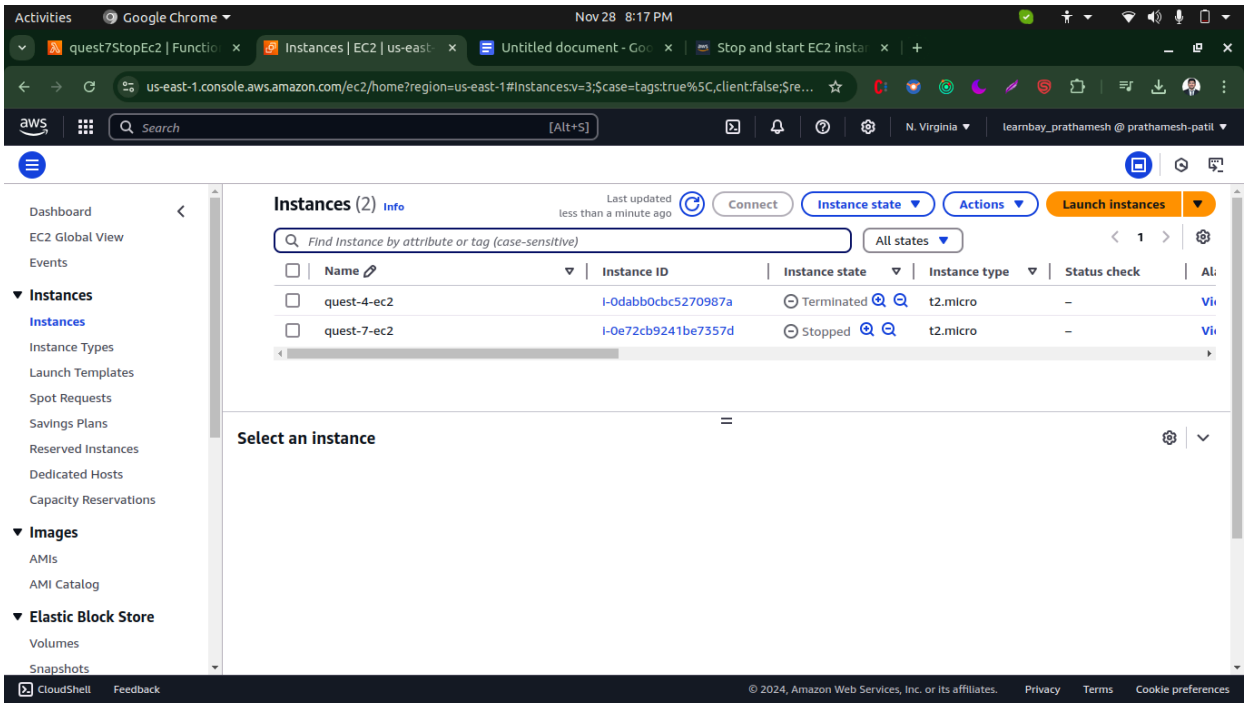
```python
import boto3
region = 'us-east-1'
instances = ['i-0e72cb9241be7357d']
ec2 = boto3.client('ec2', region_name=region)

def lambda_handler(event, context):
    ec2.stop_instances(InstanceIds=instances)
    print('stopped your instances: ' + str(instances))
```



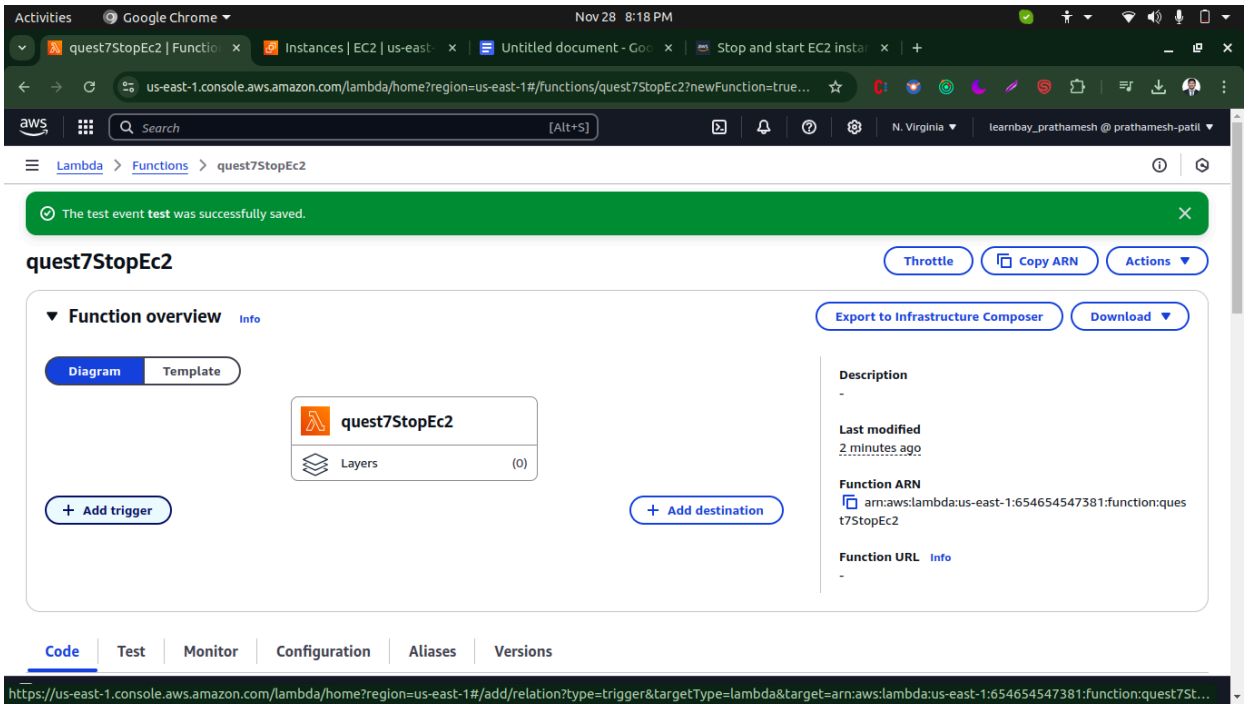
Click on deploy in blue color
Now click on test → create new test event → give name test →save

Then click on Test to verify if code is working or not
Verify if ec2 has stopped or not

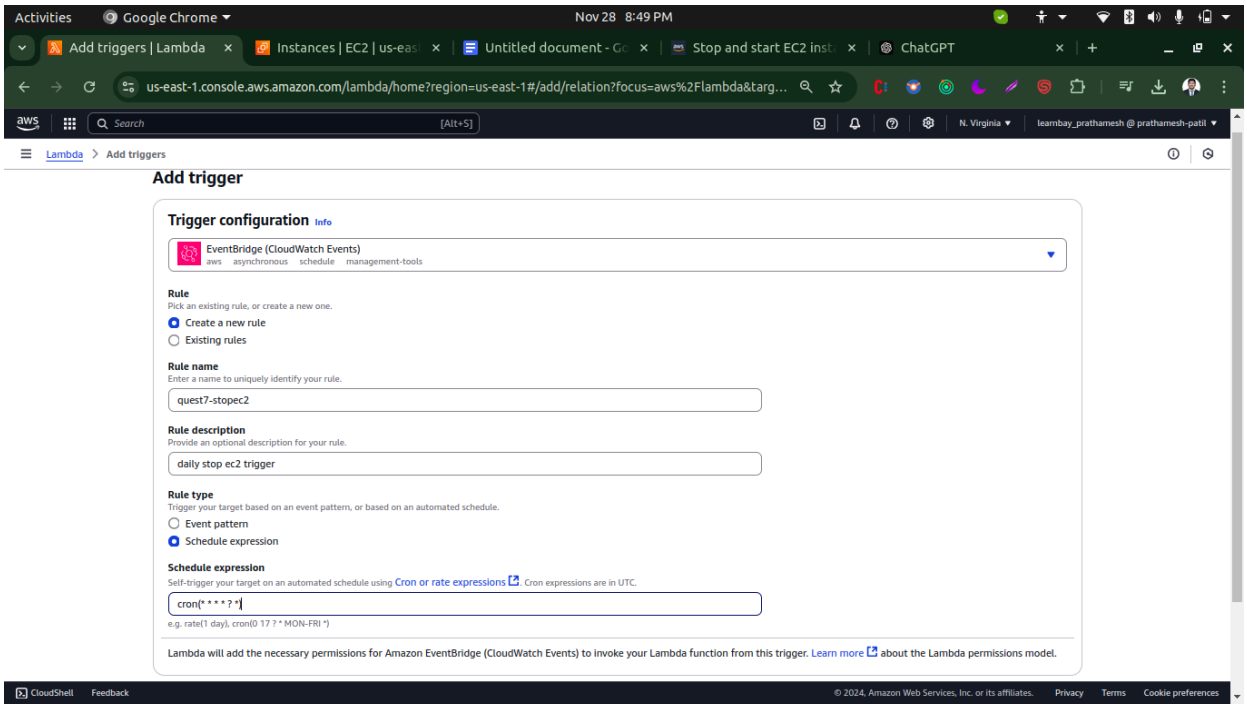


It has now stopped

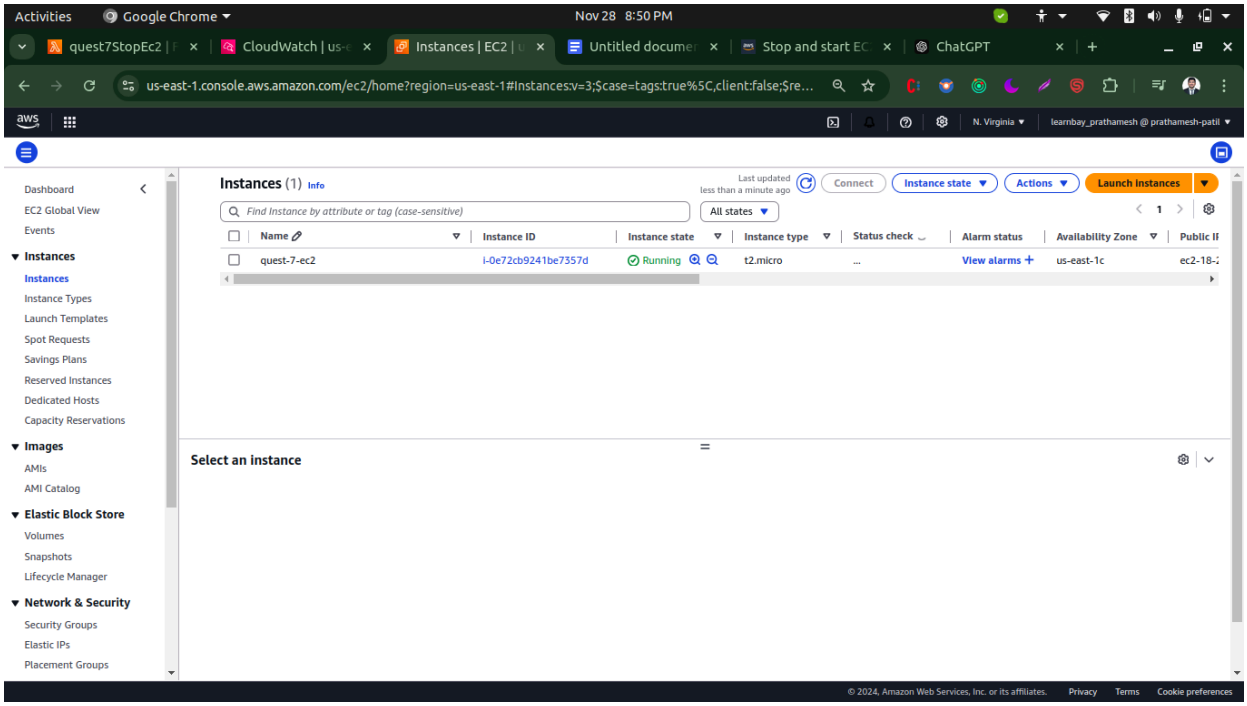
To automate the lambda to trigger daily
Click on add trigger



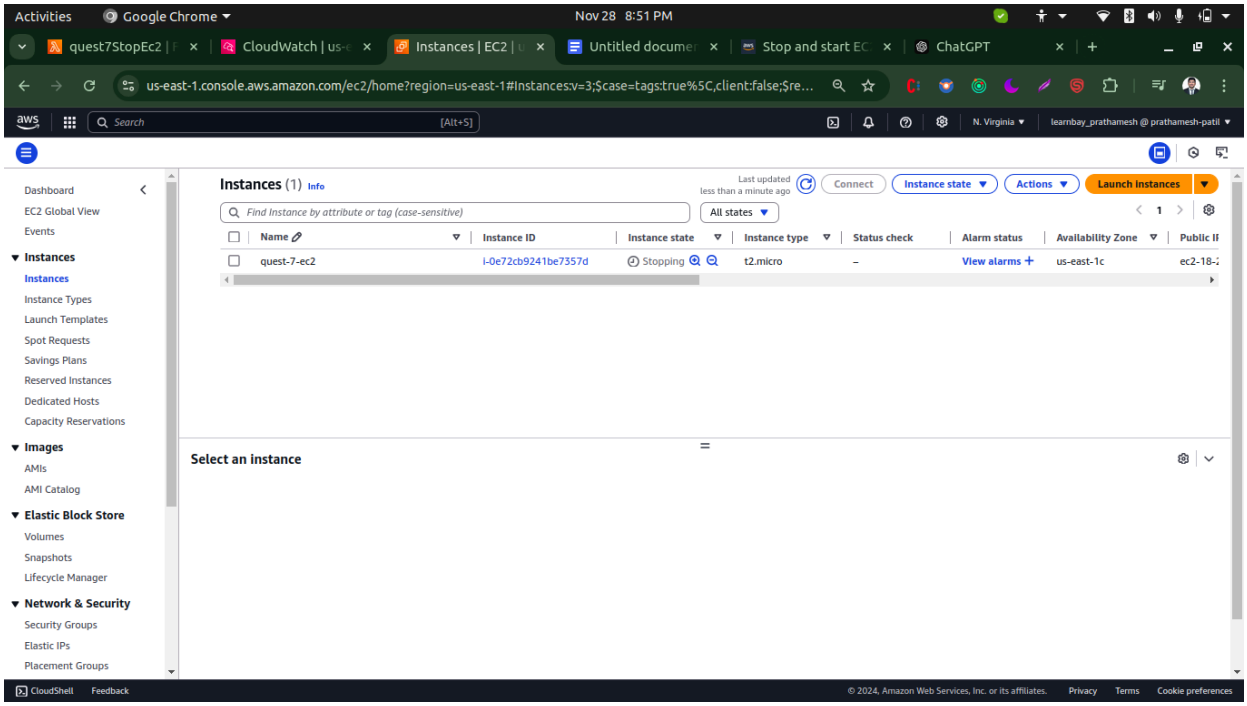
Select Eventbridge from dropdown → click on create new rule → enter some name →click on schedule expression → enter cron expression for daily trigger (But for testing I have used every minute trigger = cron(* * * * ? *))



Again start the ec2



Now after exactly one minute lamda triggered



And stopped the ec2

Now delete the lamda function, create policy, role,ec2