**Task:**

Using Lambda Function to Start & Stop the EC2 Instance Using Cloud watch Events.

1) Create function to start ec2 instance at 10 AM IST if instance has tag ec2\_start = "true".

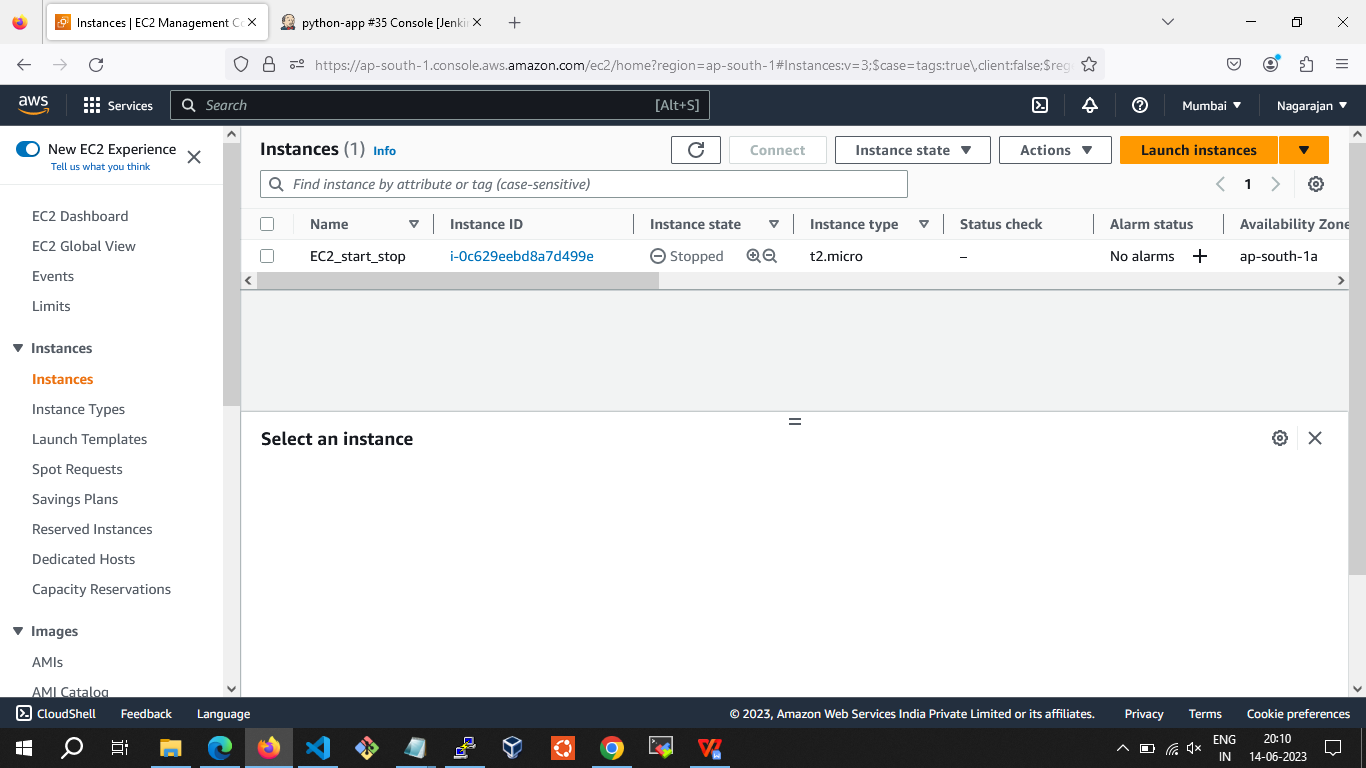
2) Create function to stop ec2 instance at 10 PM IST if instance has tag ec2\_stop = "true".

3) Outcome is ec2 instance should start or stop automatically based on cron job schedule.

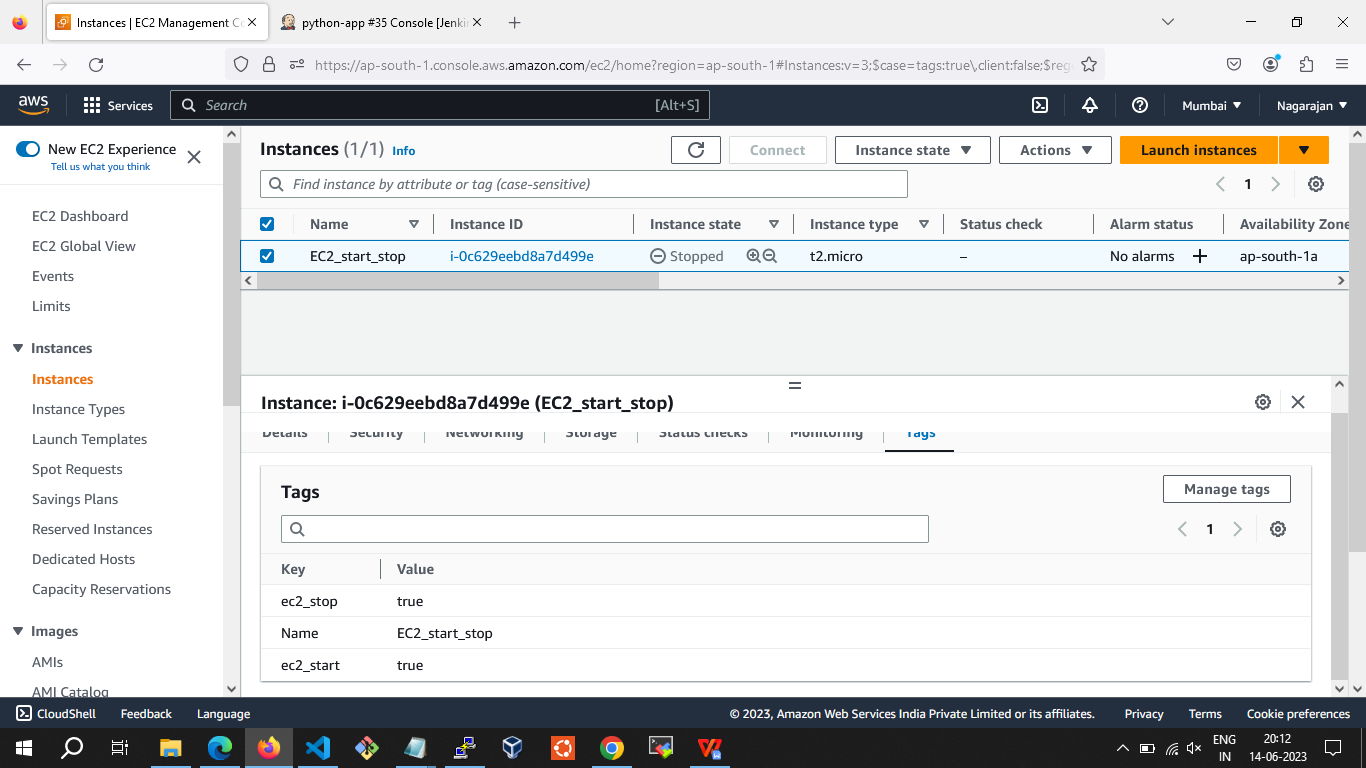
**Solution:-**

**Step 1: Launch EC2 instance**

* Sign in to the AWS Management Console.
* Click on the EC2 service.
* Click on the Launch Instance button to create a new instance.

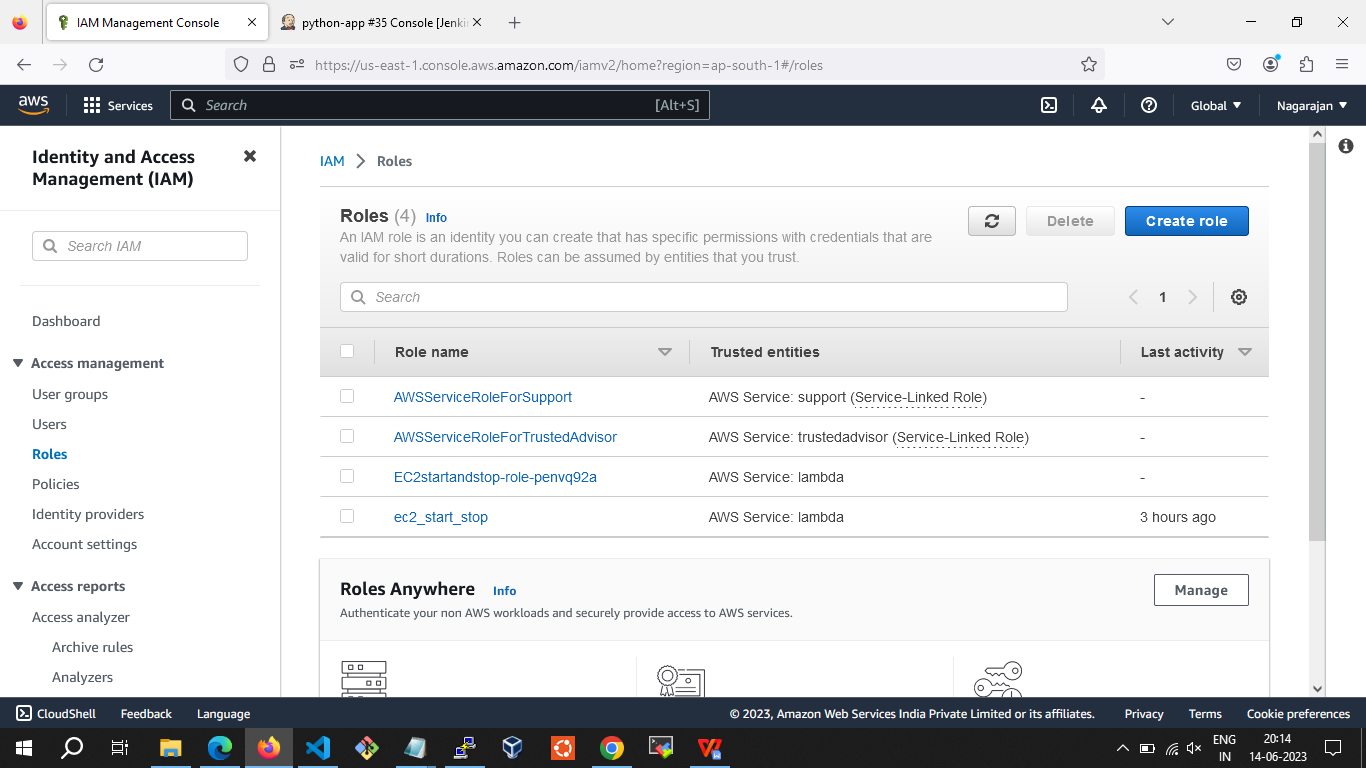


* Add the tag ec2\_start and ec2\_stop

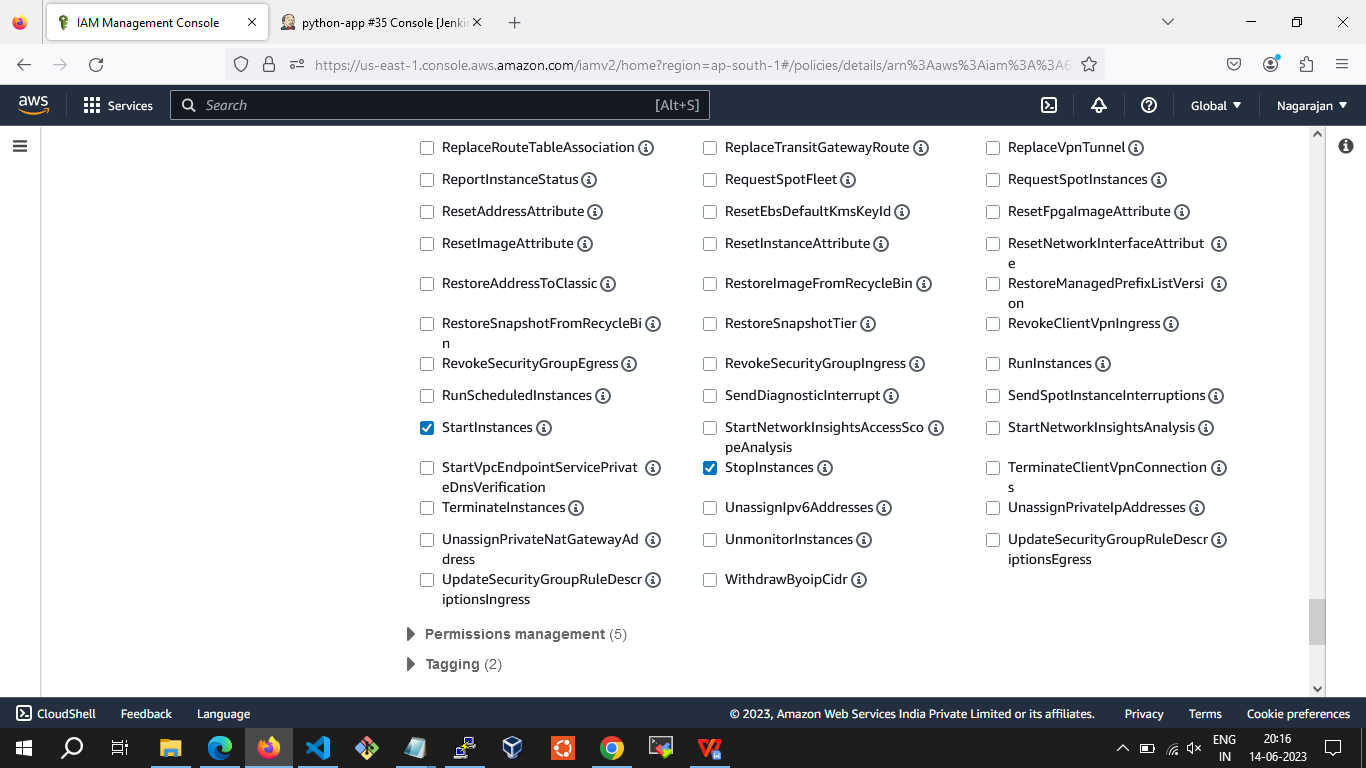


**Step 2: Creating IAM Roles for a service**

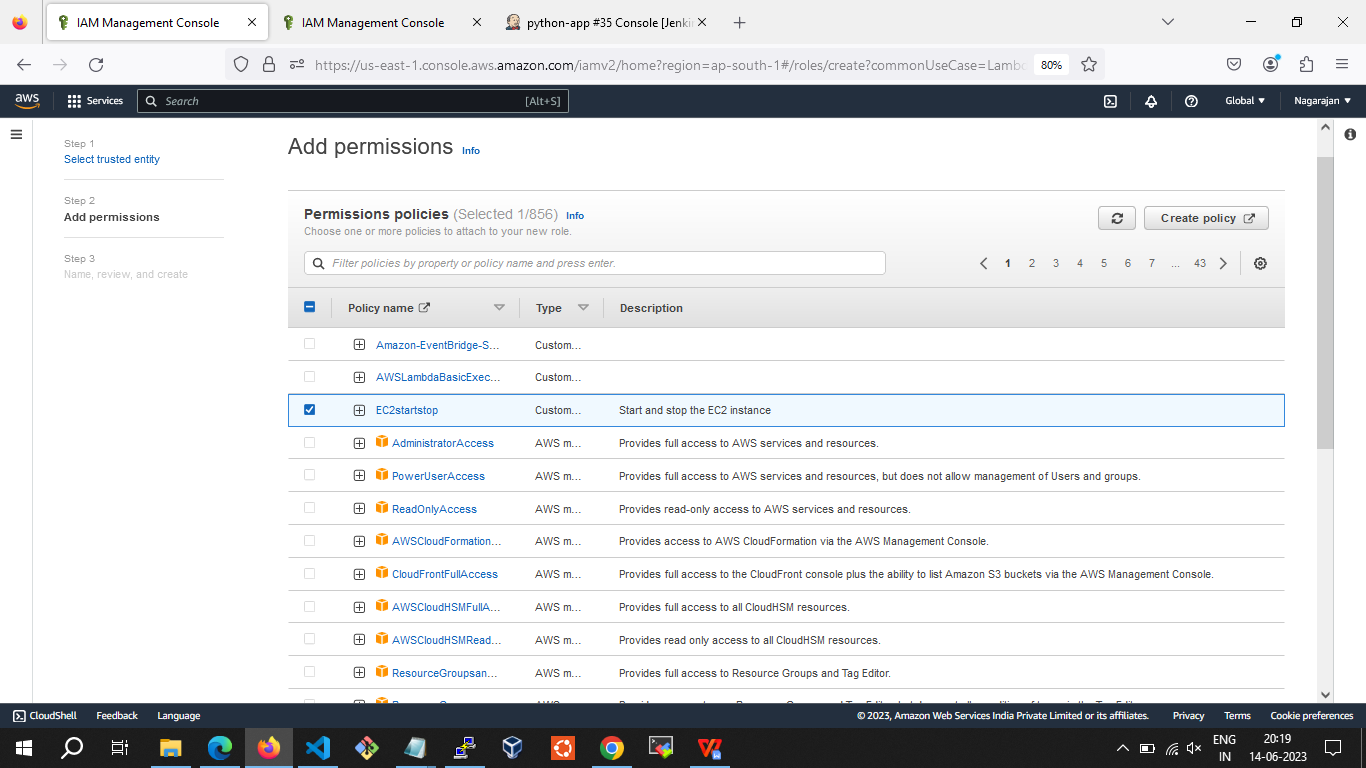
* In the navigation pane of the console, click Roles and then click on "Create Role". The screen appears shown below on clicking Create Role button.

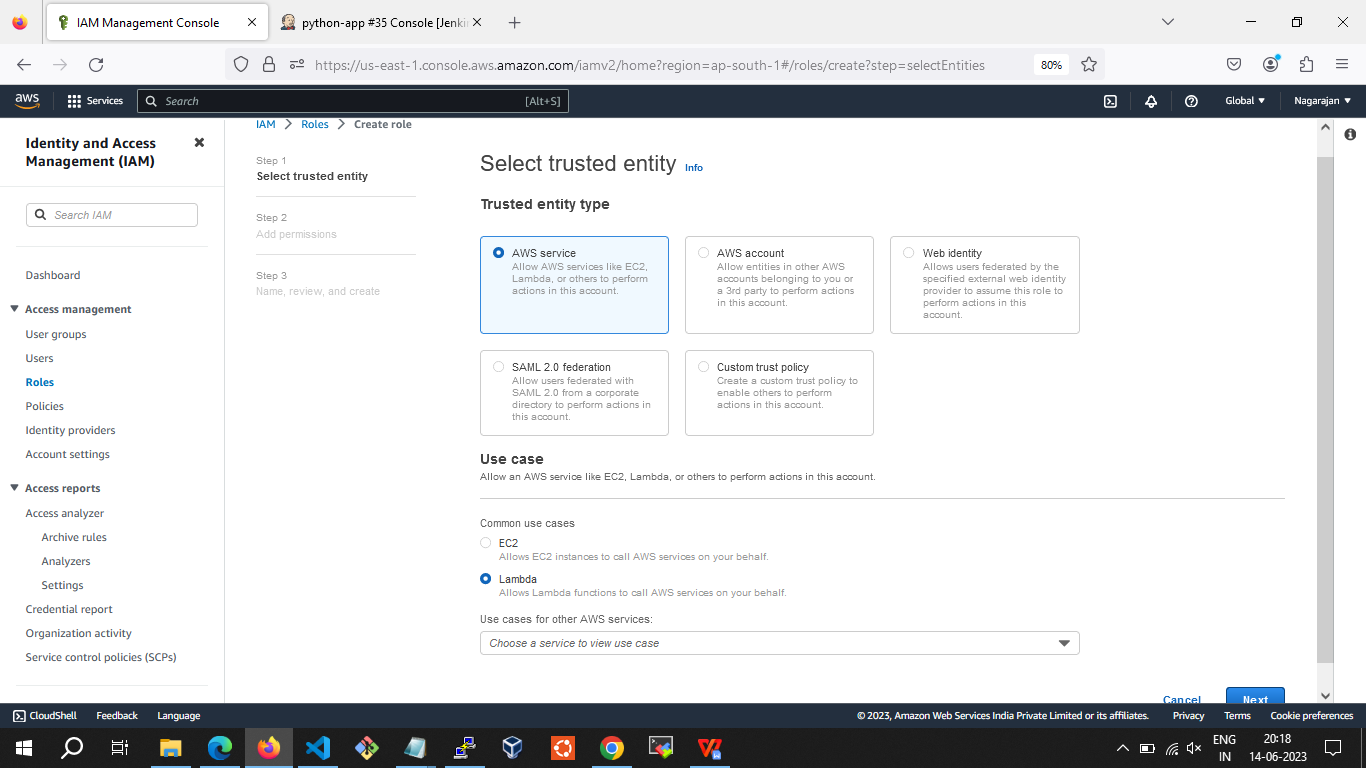


* Choose the service and create policy to start instances and stop instances.

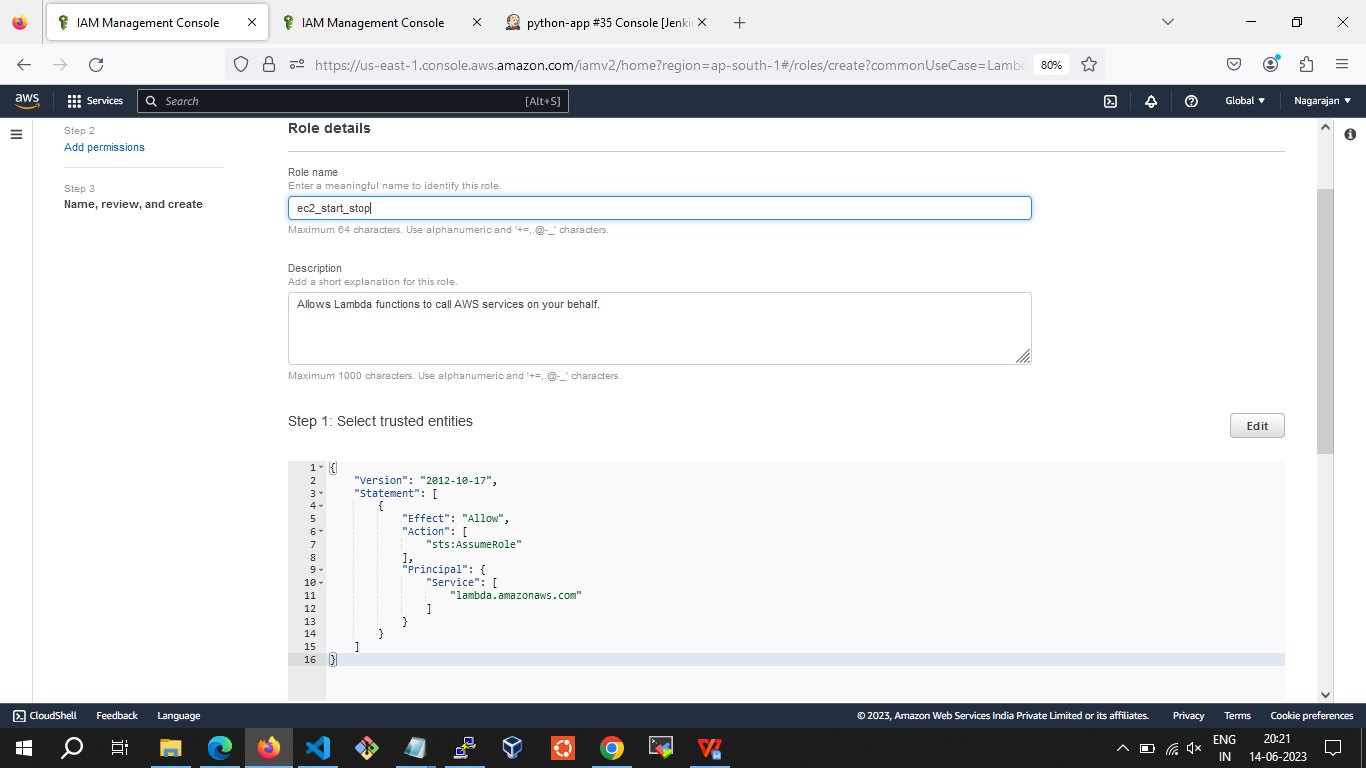


* Select the managed policy that attaches the permissions to the service.



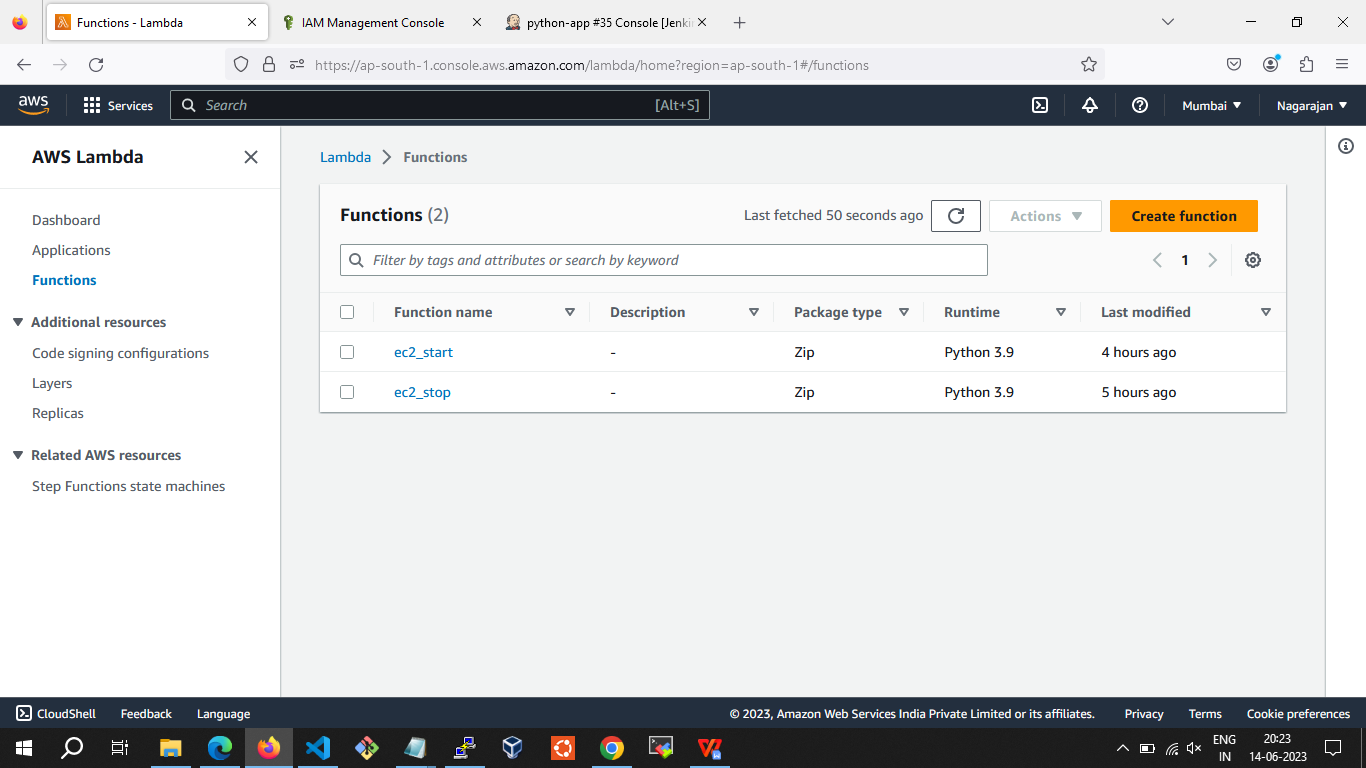


* In a role name box, enter the role name that describes the role of the service, and then click on "Create role".

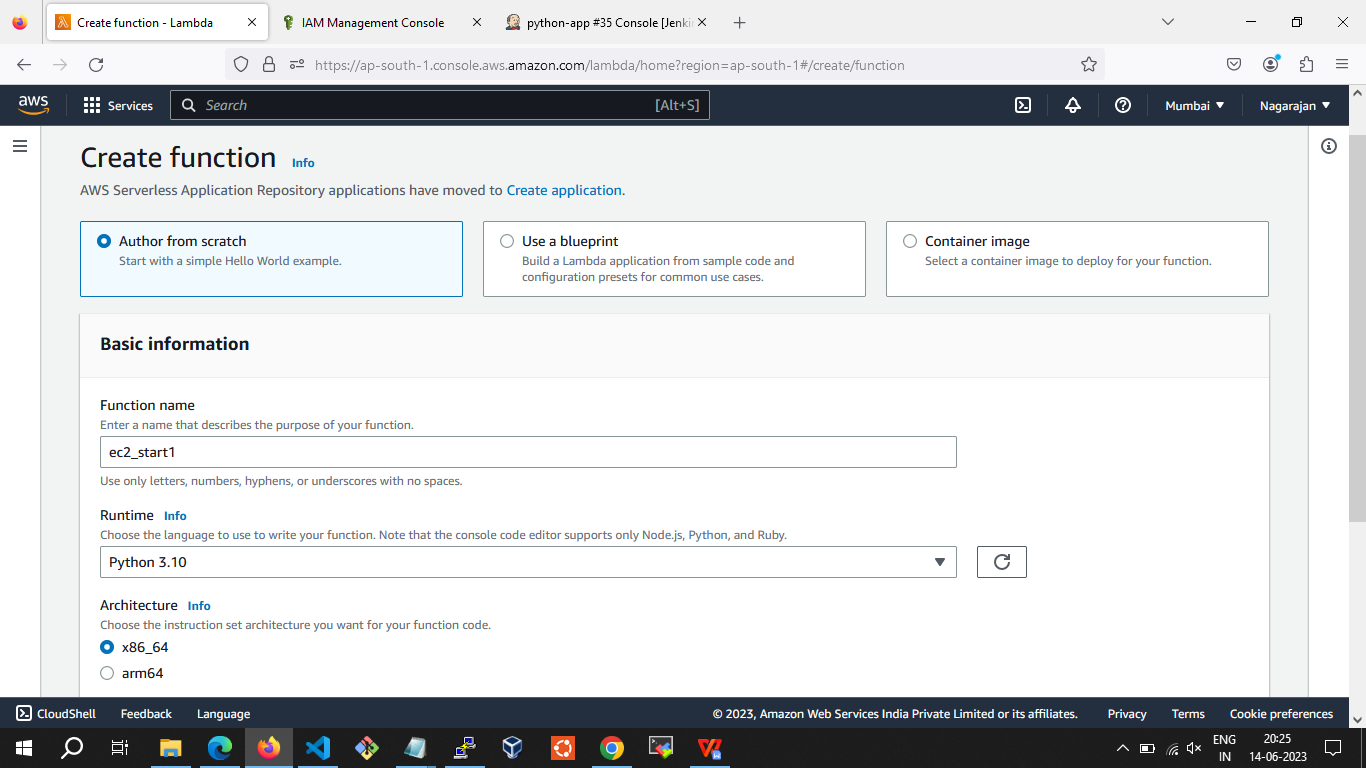


**Step 3: Creating Lambda function**

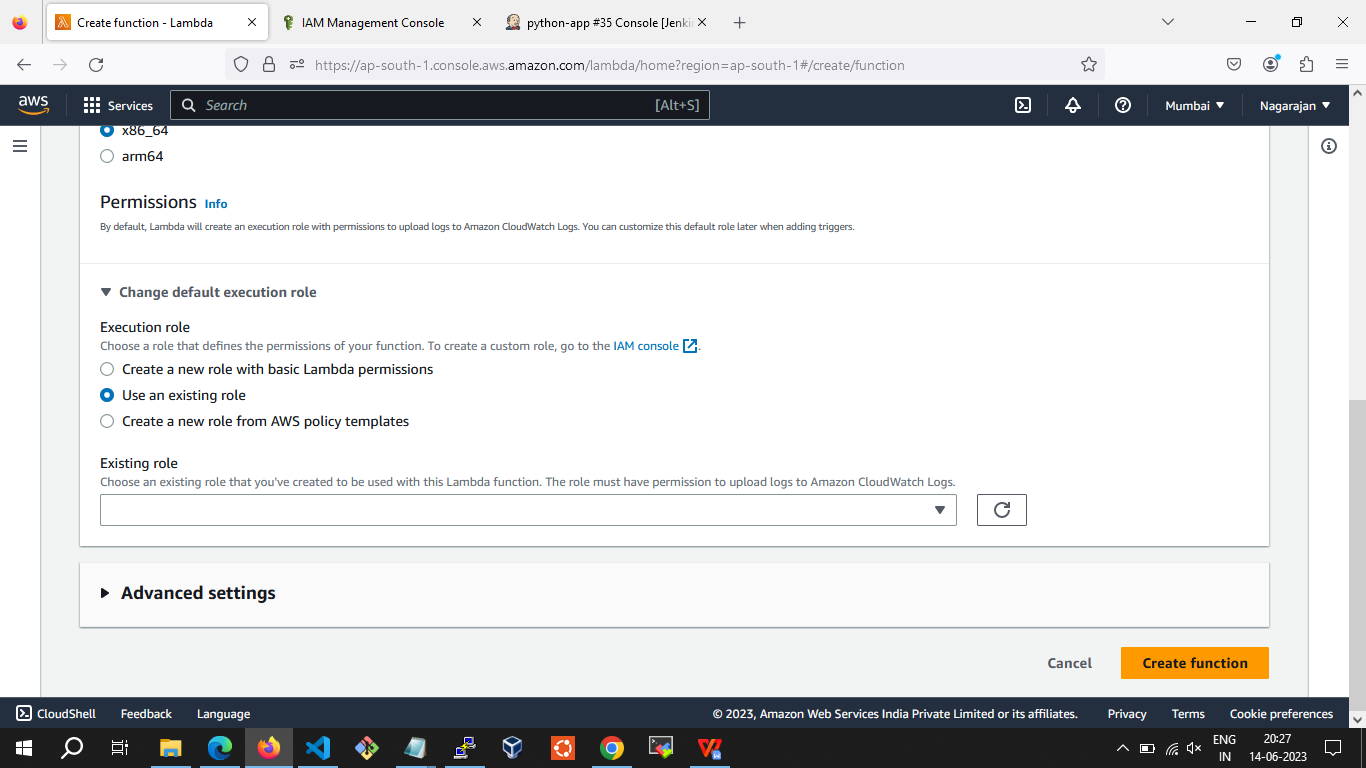
* Click on the Lambda service.
* Click on the Create function to create a new function.



* Now, we create the Lambda function by using the Author from scratch.



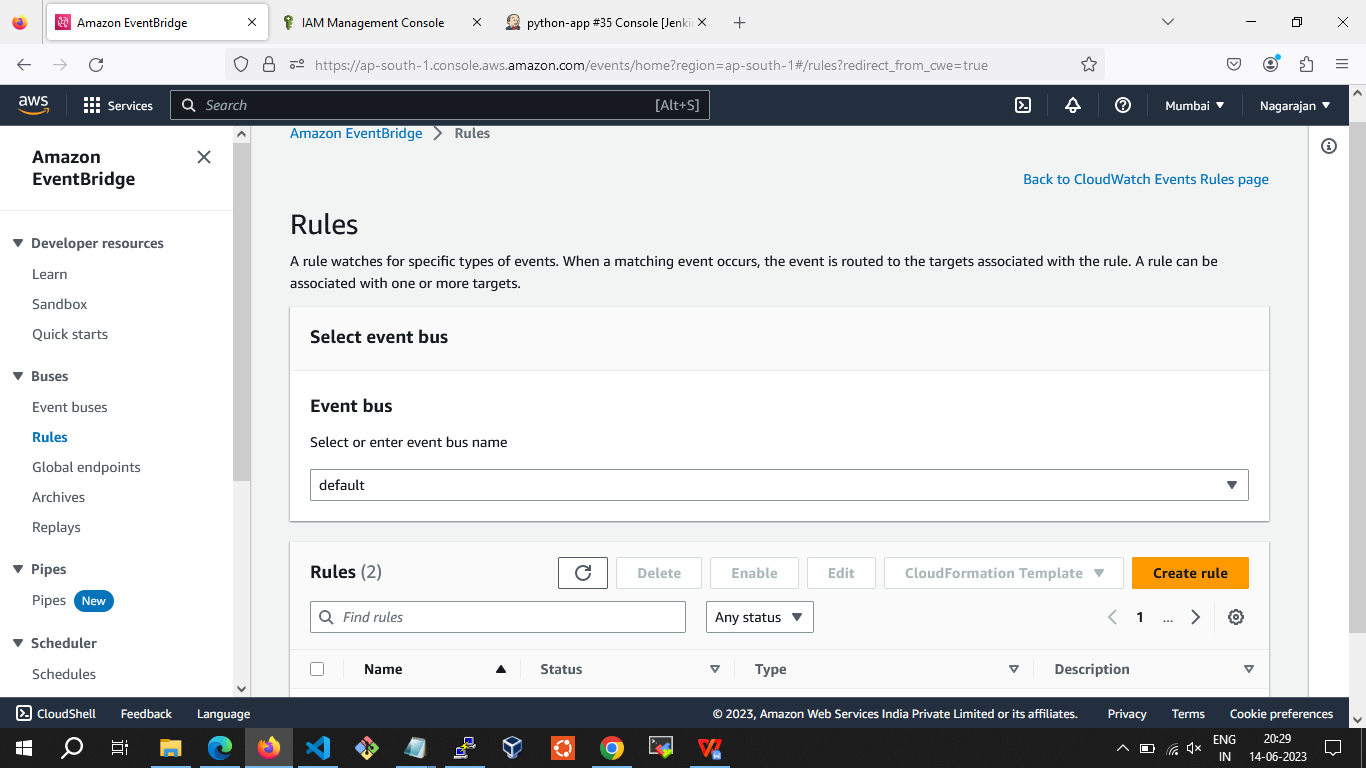
* I already created a role, and my role name is ec2\_start\_stop



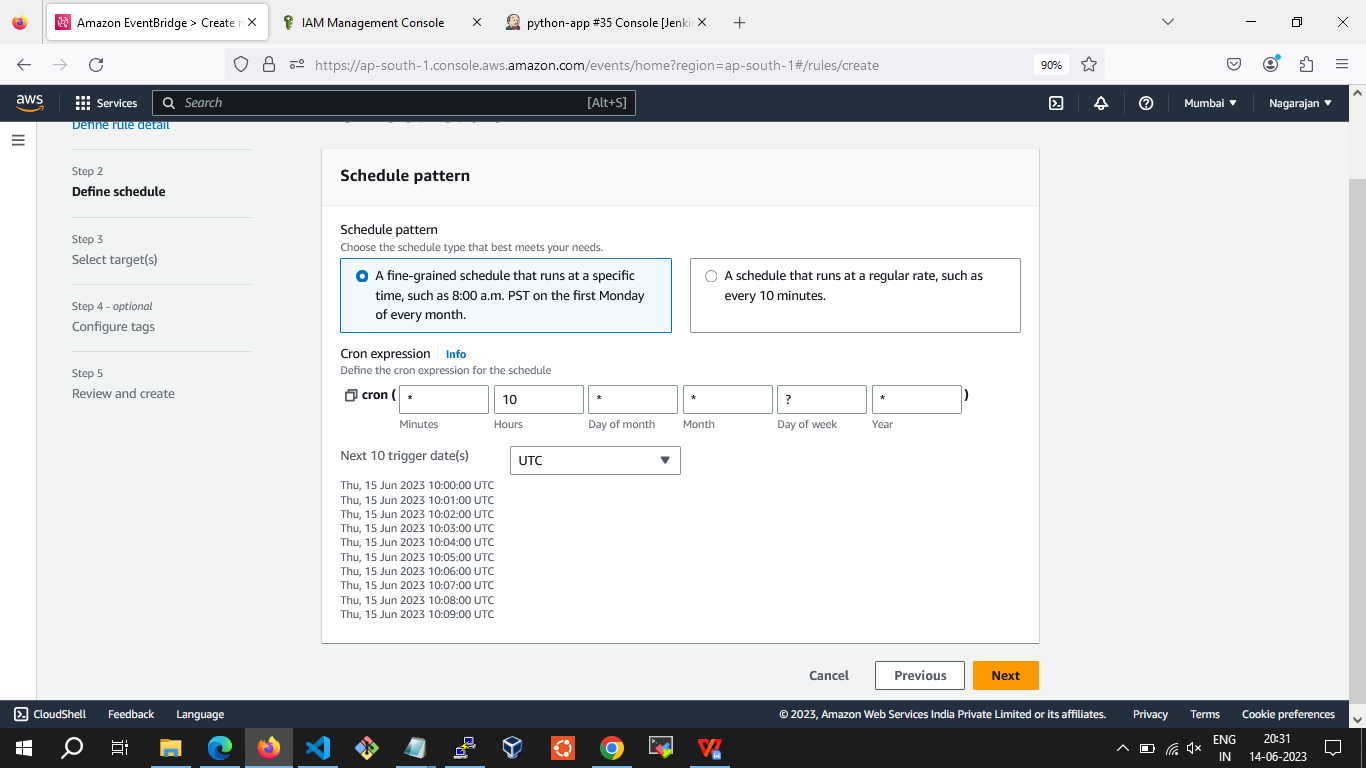
* Click on the Create function.

**Step 4: Creating Cloudwatch rule for triggering**

* In the navigation pane, Create rule.



* For Event Source, Choose Schedule(Cron job).



* For Targets, choose Add target, Lambda function.
* For Function, select the Lambda function that you created.
* Choose Create rule.

