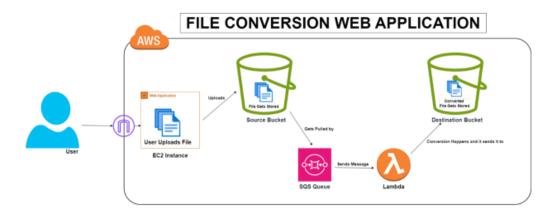
File conversion web application

~ Deepak patel

Aim:-

Creating a file conversion web application in AWS involves EC2, IAM, S3, SQS and Lambda that allows users to upload files in one format, convert them to another format, and download.

Architecture:-

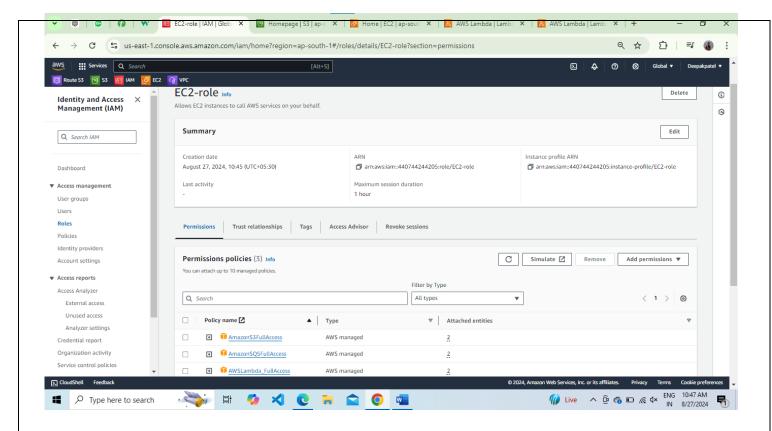


Working:-

Step 1:-Create 2 IAM roles :-

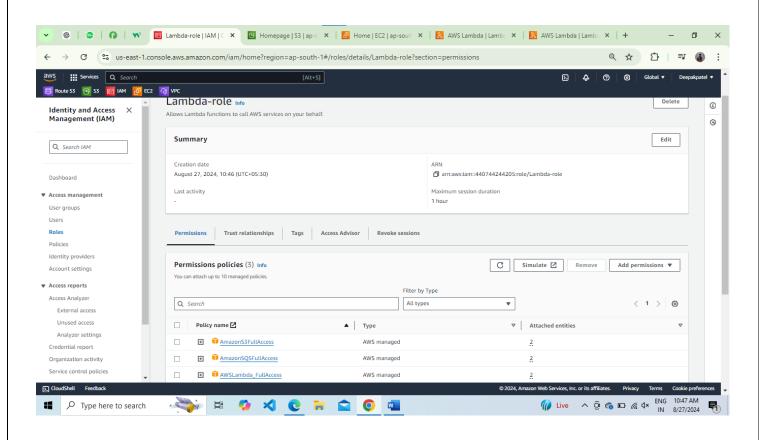
1.For EC2 role:-

AmazonS3FullAccess, AmazonSQSFull Access, Lambda full Access



2.For Lambda role:-

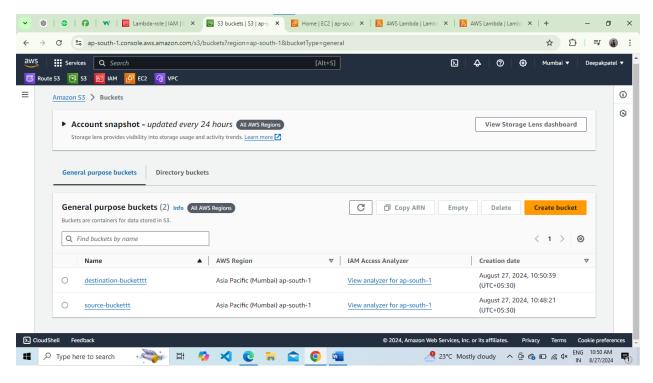
AmazonS3FullAccess, AmazonSQSFull Access, Lambda full Access



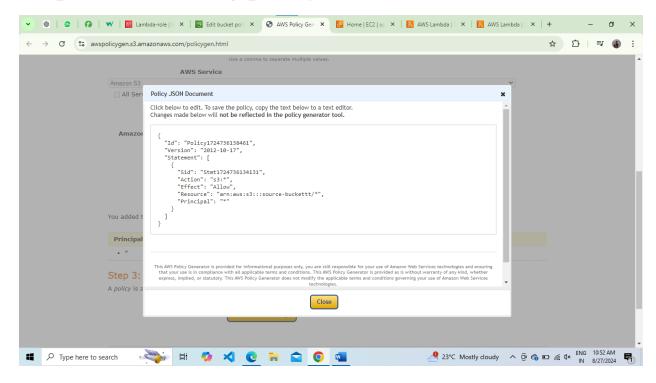
Step 2 :- Creating two S3 buckets:-

1.Source-bucket

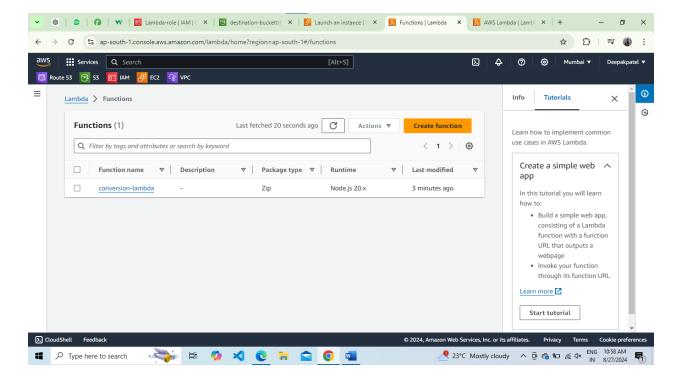
2.destination-bucket



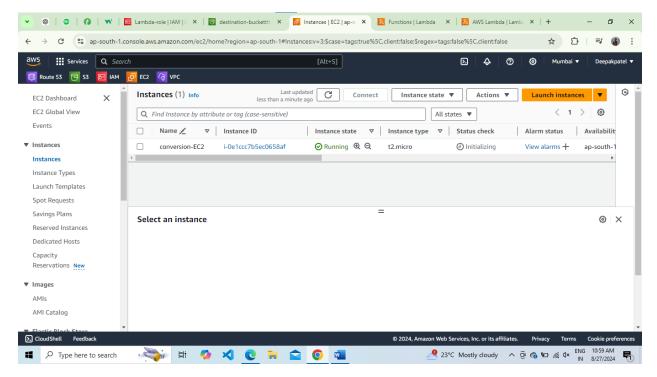
Step 3:-Generating policy for S3 buckets



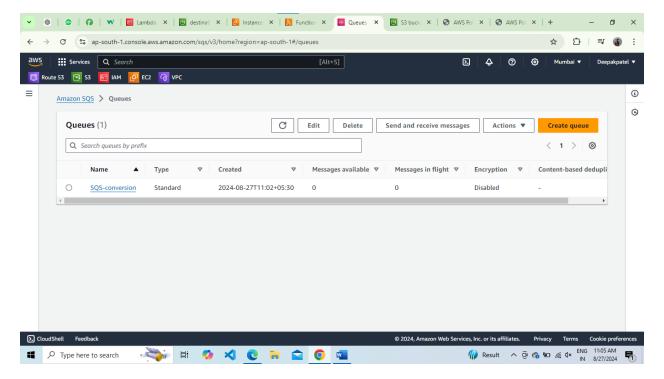
Step 4:- creating lambda function & give the Lambda IAM role



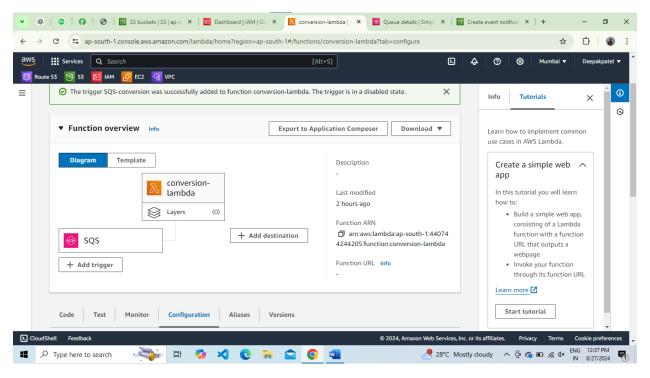
Step 5:- Create EC2 Instance & give the EC2 IAM role



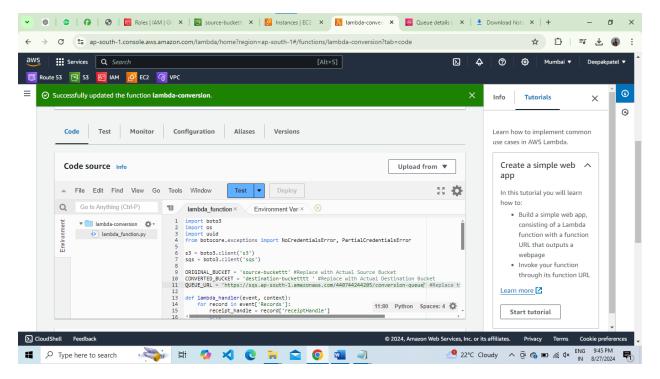
Step 6:- creating SQS Queue



Step 7:- add trigger to lambda function by selecting SQS queue



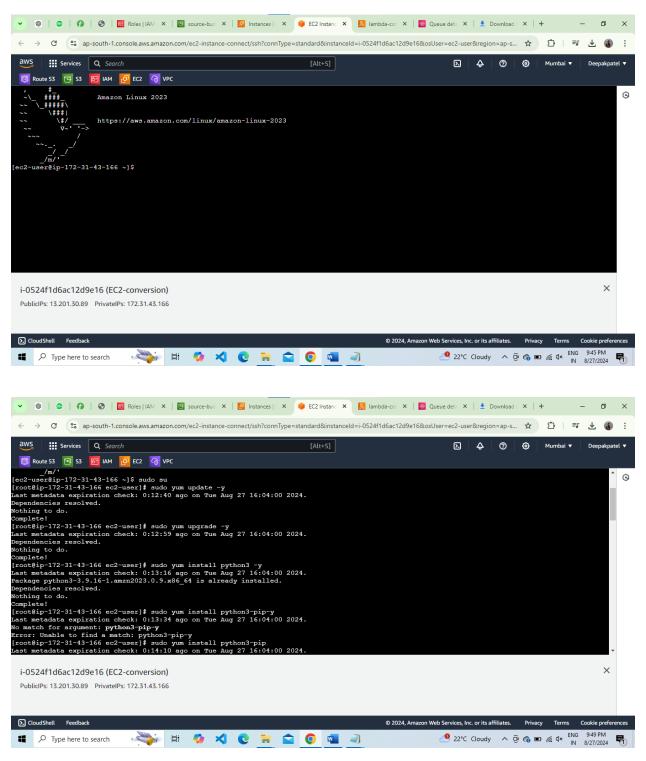
Step 8:- add Conversion code and click on deploy

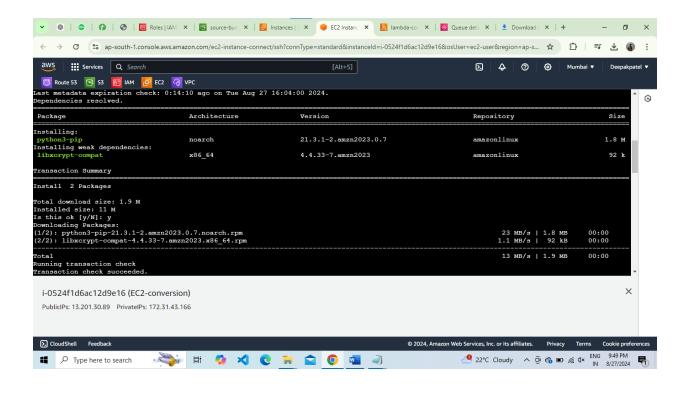


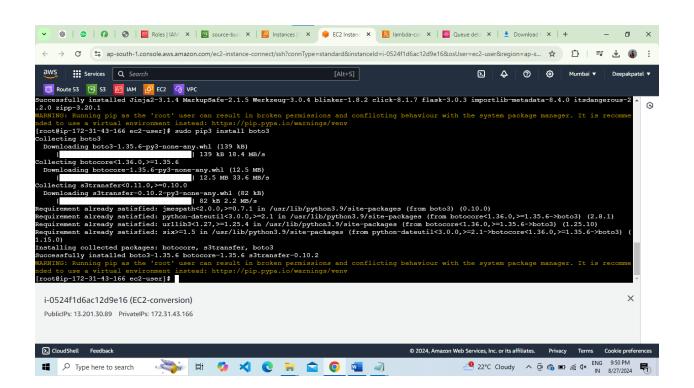
Step 9:- EC2 and perfume the commands

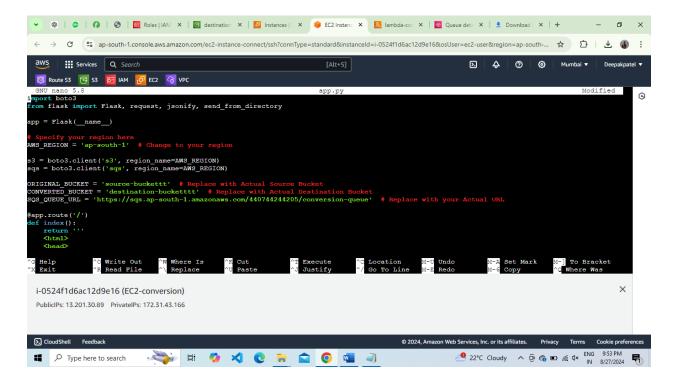
- 1.sudo yum update -y
- 2.sudo yum upgrade -y
- 3.sudo yum install python3-y
- 4.sudo yum install python3-pip -y
- 5.sudo pip install flask
- 6.sudo pip3 install boto3
- 7.sudo nano file.py #file name replacable
- 8.file.py

9.after adding code press ctrl+o(not zero) to save the file \rightarrow click enter to save the file name, ctrl + X to exit



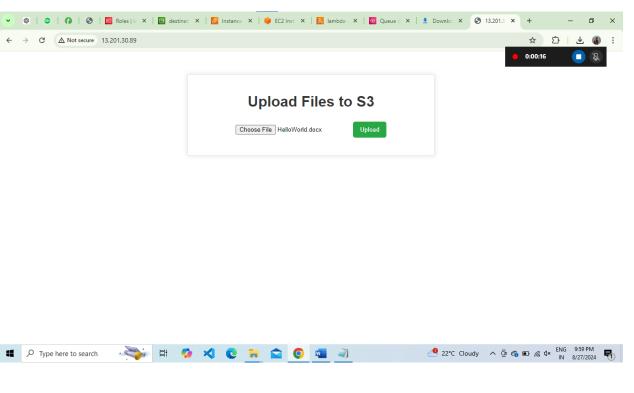


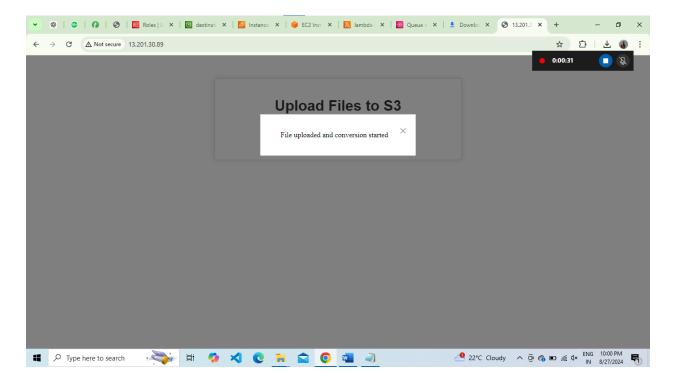




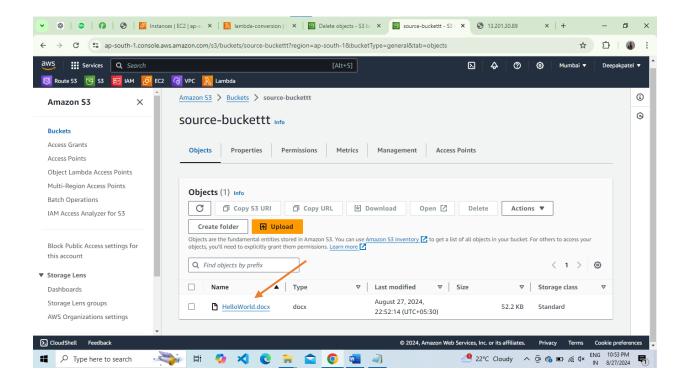
Step 10:- copy public IP of instance and paste it on a new tab

Output:-





• After uploading docs file that relect on a source bucket



• Destination bucket has the .pdf file which was converted by the lambda function

