Name of the Student: **Shrushti Krishna Shrivastav** **PRN: 20220801024**

Title of Practicle : AWS Simple Queue Service (SQS) For Sending Messages

Open 3 tabs

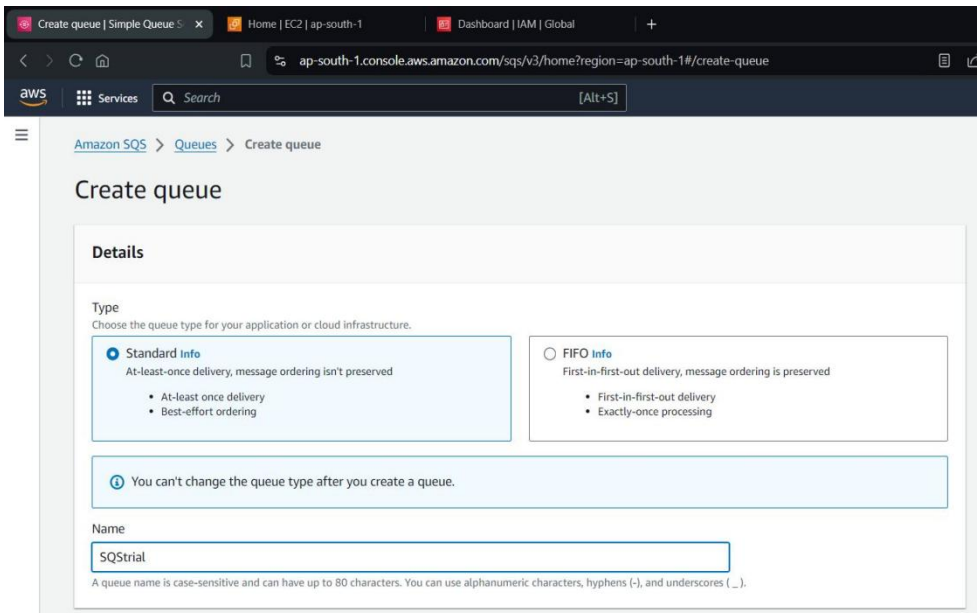
(1)--sqs , (2)--ec2 , (3)--iam

Step 1: create an sqs queue

Create queue-- name--

Keep rest as default configuration

Create queue



Step 2: create ec2 instance

Name-- name instance , AMI-- ubuntu , Instance type-- t2.micro

Keypair-- new

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Network setting--edit

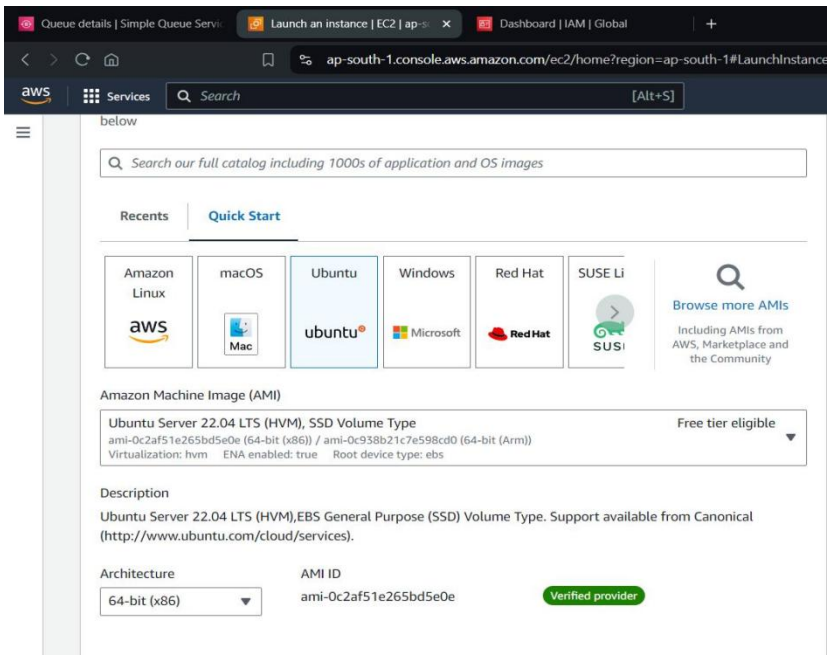
Auto assign public ip--enable

Add security group rule

Type(custom) port(3000)

Source(anywhere)

Launch.



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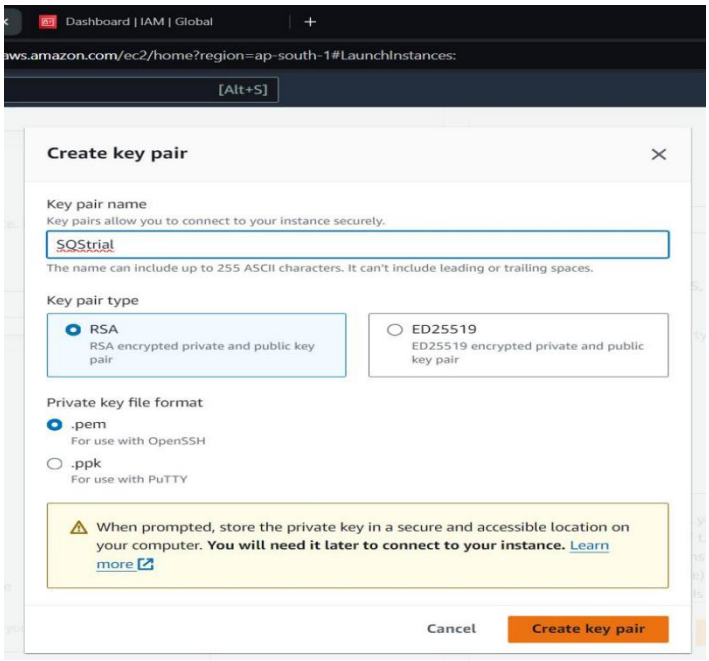

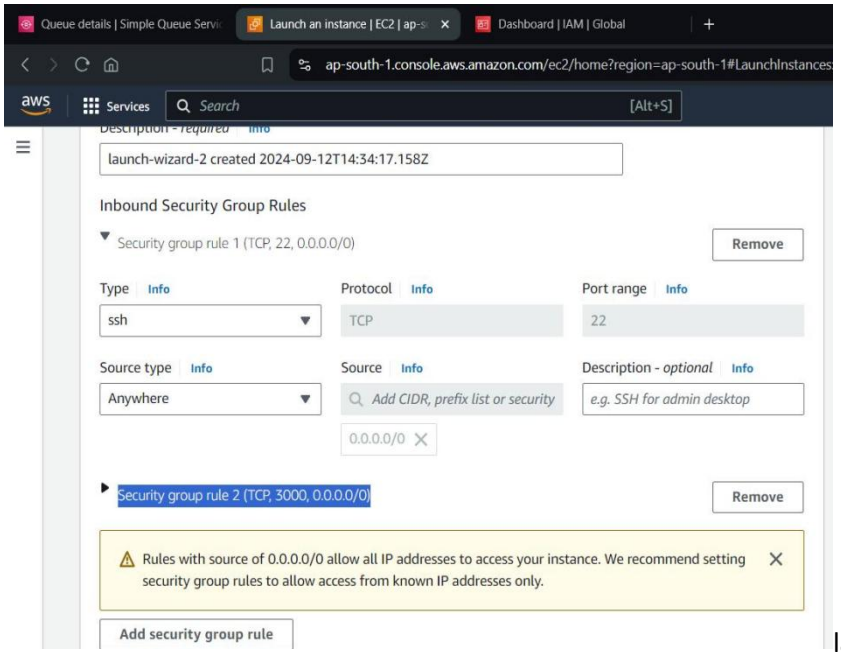

launch

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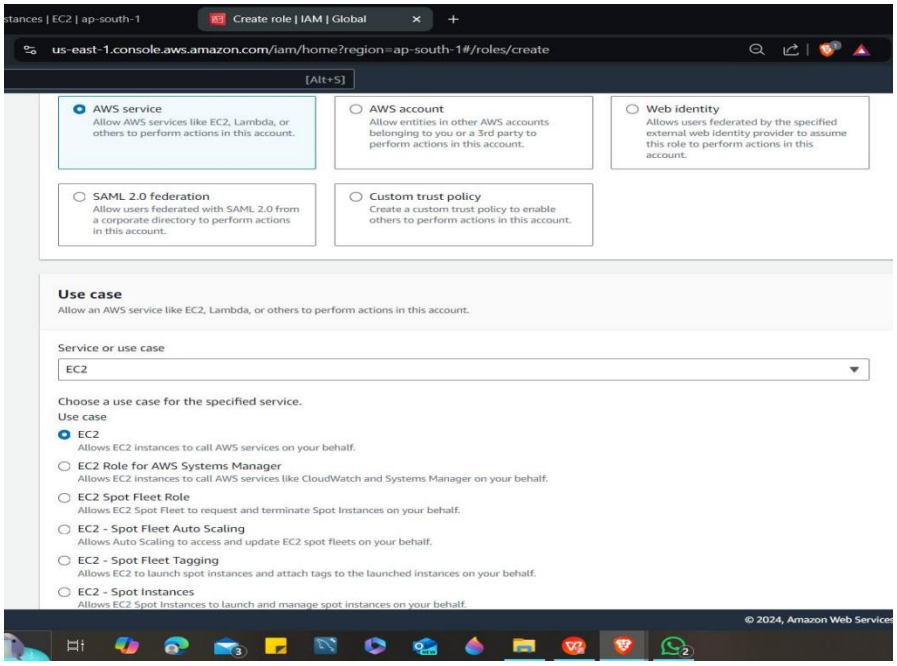
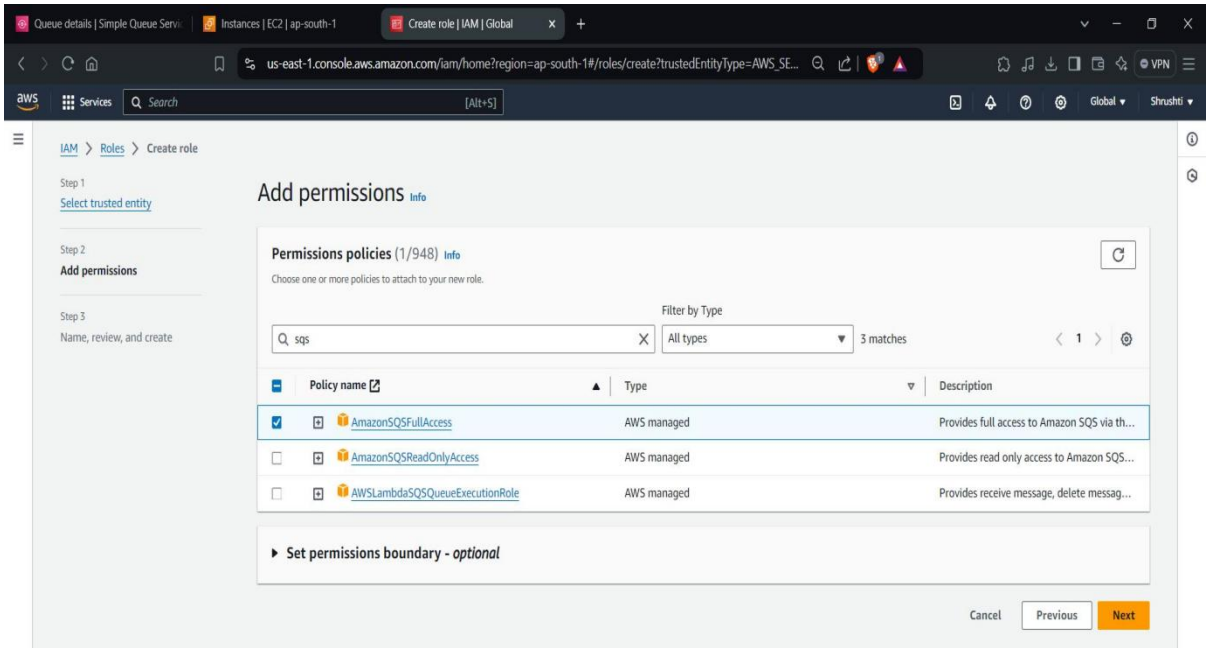
Step 3: create IAM role





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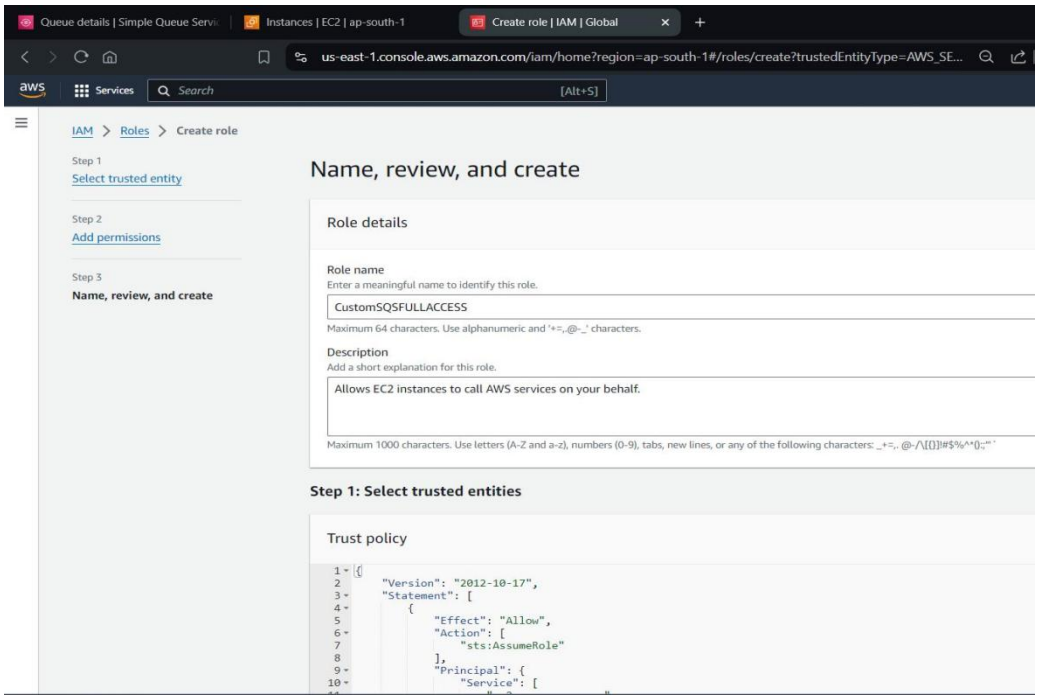

After creating the rule , navigate back to previously created ec2 instance.

Click on ‘instance-id’ -- action -- security -- modify iam role --select the created role --

then -update iam role.

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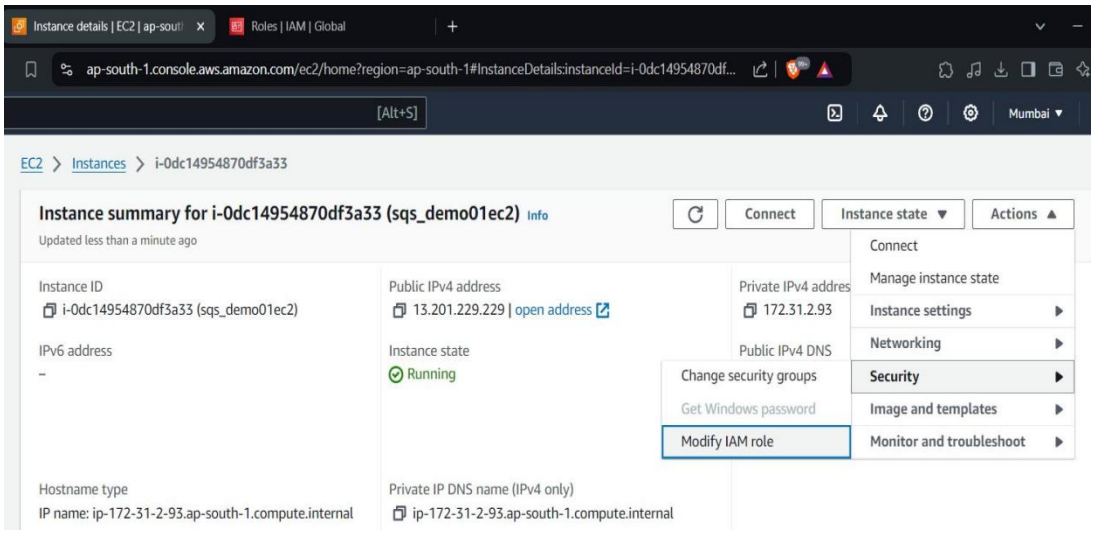

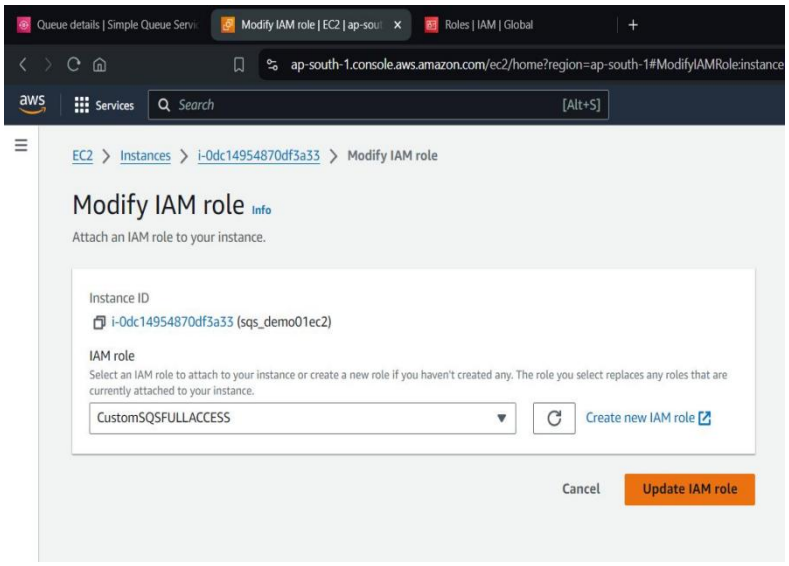

Step4: connect ec2 instance

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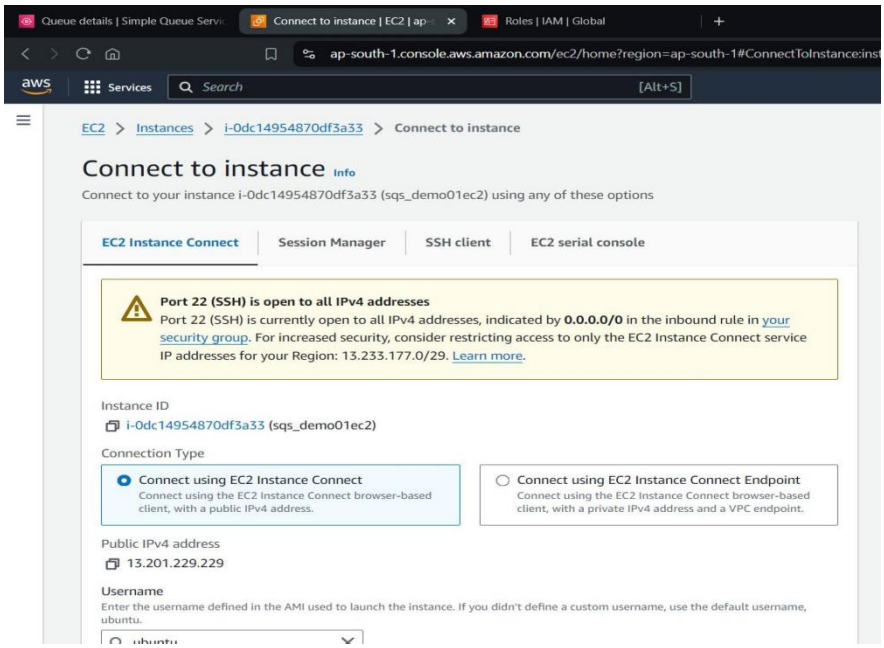
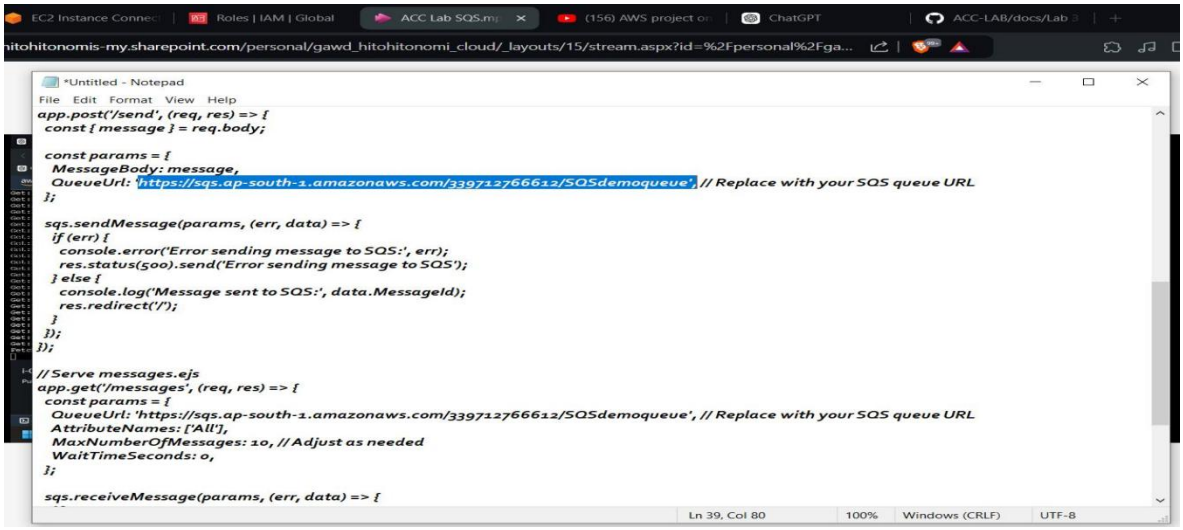


Step5: edit

Now copy paste the app.js file to notepad and replace the placeholder sqs url with your actual sqs queue url.(total 2 url to be replaced)



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Step6: ec2 connect

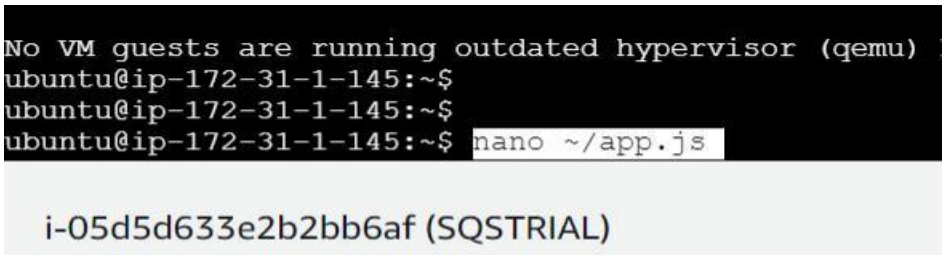
Back to ec2 connect and type the command

:: Sudo apt update && sudo apt upgrade -y && sudo apt install nodejs -y && sudo apt install npm -y

(in between a purple box will apperar a lot just press 'enter')

Once done

Follow these to create node.js file::::



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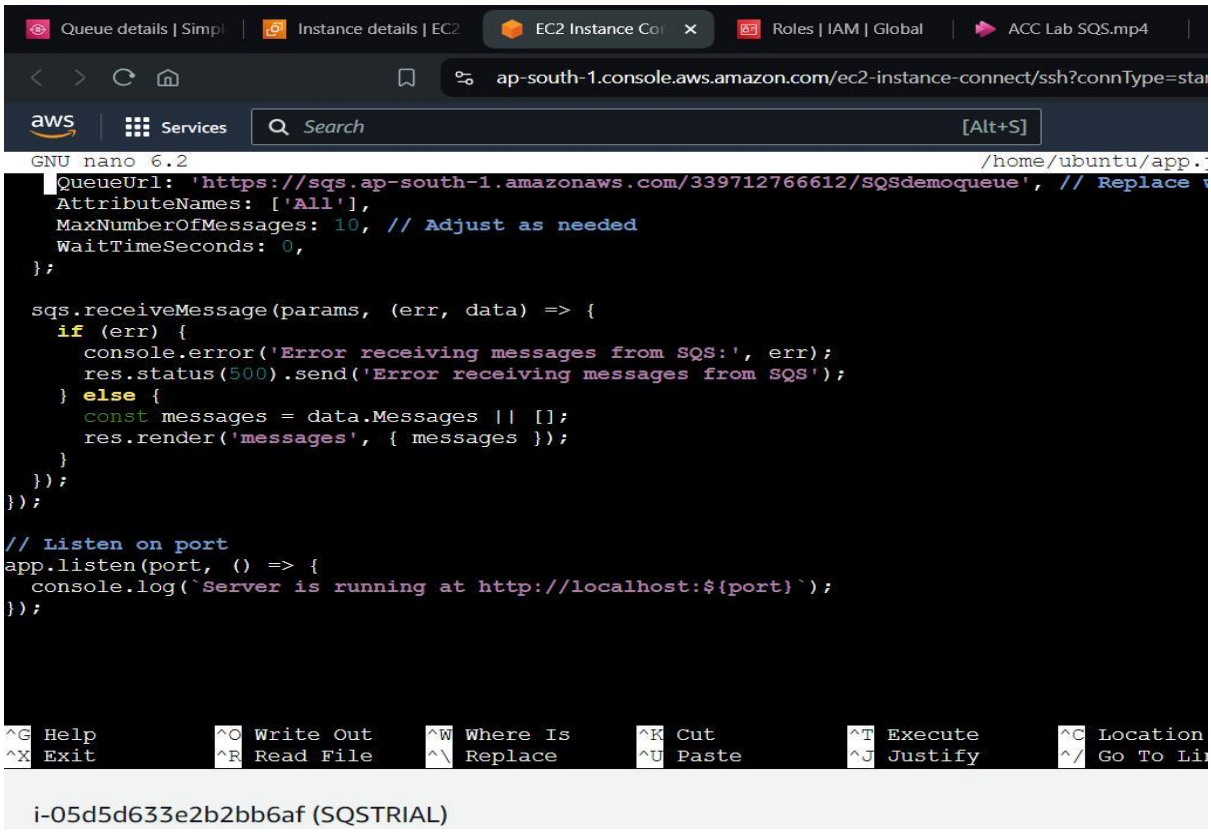

This will create app.js file and in editor paste the updated file.

To exit editor :

Ctr+o-- enter-- ctr+x

Done.

Now create index.html file::::

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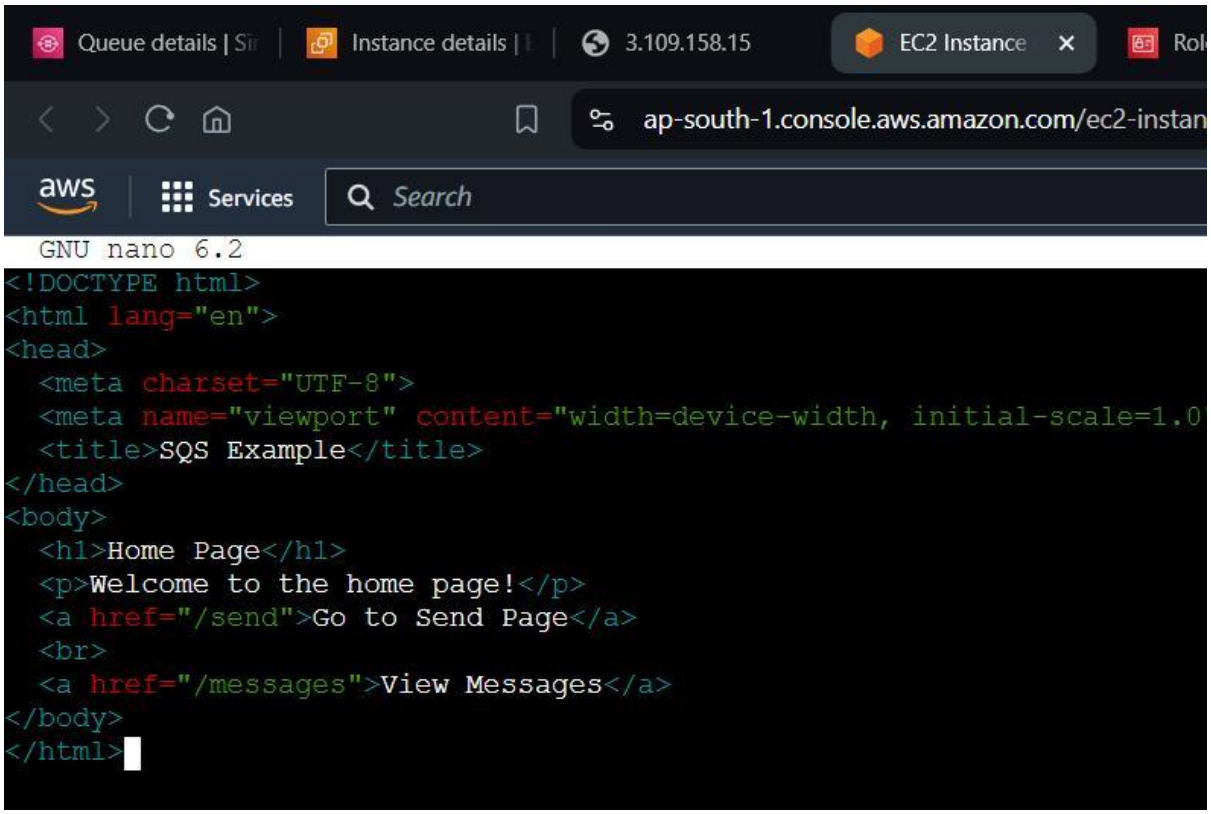
Title of Practicle : AWS Simple Queue Service (SQS) For Sending Messages

```
No user sessions are running outdated binaries.

No VM guests are running outdated hypervisor (qemu) binaries on this
ubuntu@ip-172-31-1-145:~$
ubuntu@ip-172-31-1-145:~$
ubuntu@ip-172-31-1-145:~$ nano ~/app.js
ubuntu@ip-172-31-1-145:~$ nano ~/index.html
```



Create send.html and add content::::

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```
No VM guests are running outdated hypervisor (qemu)
ubuntu@ip-172-31-1-145:~$
ubuntu@ip-172-31-1-145:~$
ubuntu@ip-172-31-1-145:~$ nano ~/app.js
ubuntu@ip-172-31-1-145:~$ nano ~/index.html
ubuntu@ip-172-31-1-145:~$ nano ~/send.html
```

i-05d5d633e2b2bb6af (SQSTRIAL)

PublicIPs: 3.109.158.15 PrivateIPs: 172.31.1.145

Queue details | Si | Instance details | I | 3.109.158.15 | EC2 Instance | Roles | IAM |

ap-south-1.console.aws.amazon.com/ec2-instance-conn

aws | Services | Search [Alt

GNU nano 6.2 /hom

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>SQS Example</title>
</head>
<body>
  <h1>Send Message</h1>
  <form action="/send" method="post">
    <label for="message">Message:</label>
    <input type="text" id="message" name="message" required>
    <button type="submit">Send</button>
  </form>
  <br>
  <a href="/">Go to Home Page</a>
</body>
</html>
```

Create view directory and message.ejs file

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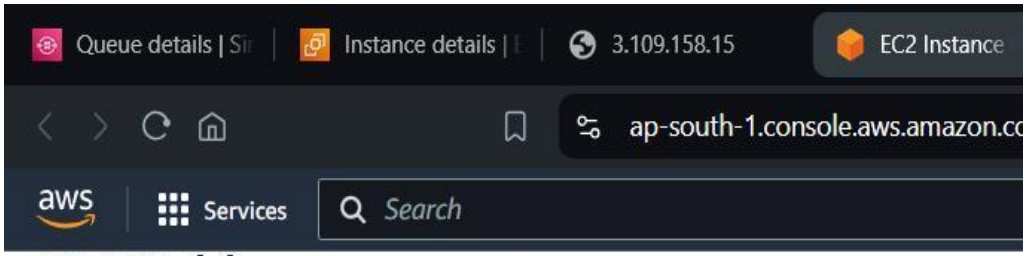
Title of Practicle : AWS Simple Queue Service (SQS) For Sending Messages

```
No VM guests are running outdated hypervisor (qemu) binaries on this host.
ubuntu@ip-172-31-1-145:~$
ubuntu@ip-172-31-1-145:~$
ubuntu@ip-172-31-1-145:~$ nano ~/app.js
ubuntu@ip-172-31-1-145:~$ nano ~/index.html
ubuntu@ip-172-31-1-145:~$ nano ~/send.html
ubuntu@ip-172-31-1-145:~$ mkdir ~/views && nano ~/views/messages.ejs
```




```
  GNU nano 6.2
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-
  <title>SQS Example</title>
</head>
<body>
  <h1>Messages from SQS Queue</h1>
  <ul>
    <% messages.forEach(message => { %>
      <li><%= message.Body %></li>
    <% }); %>
  </ul>
  <br>
  <a href="/">Go to Home Page</a>
</body>
</html>
```

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Title of Practicle : AWS Simple Queue Service (SQS) For Sending Messages

Now install required packages

```
ubuntu@ip-172-31-1-145:~$
ubuntu@ip-172-31-1-145:~$ nano ~/app.js
ubuntu@ip-172-31-1-145:~$ nano ~/index.html
ubuntu@ip-172-31-1-145:~$ nano ~/send.html
ubuntu@ip-172-31-1-145:~$ mkdir ~/views && nano ~/views/messages.ejs
ubuntu@ip-172-31-1-145:~$ mkdir ~/views && nano ~/views/messages.ejs
mkdir: cannot create directory '/home/ubuntu/views': File exists
ubuntu@ip-172-31-1-145:~$ npm install express aws-sdk body-parser ejs
npm WARN deprecated querystring@0.2.0: The querystring API is considered Legacy. new code should use the URLSearchParams API in

added 105 packages, and audited 106 packages in 6s

23 packages are looking for funding
  run `npm fund` for details

found 0 vulnerabilities
ubuntu@ip-172-31-1-145:~$ node ~/app.js
Server is running at http://localhost:3000
(node:13634) NOTE: The AWS SDK for JavaScript (v2) is in maintenance mode.
 SDK releases are limited to address critical bug fixes and security issues only.

Please migrate your code to use AWS SDK for JavaScript (v3).
For more information, check the blog post at https://a.co/cUPnyil
```

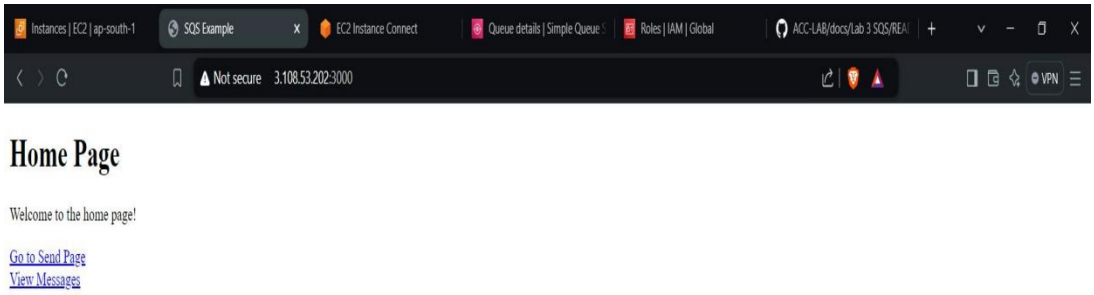
i-05d5d633e2b2bb6af (SQSTRIAL)

PublicIPs: 3.109.158.15 PrivateIPs: 172.31.1.145

Run :: node ¬/app.js

Your application should now be running at::::

http:// your-ec2-public-ip:3000



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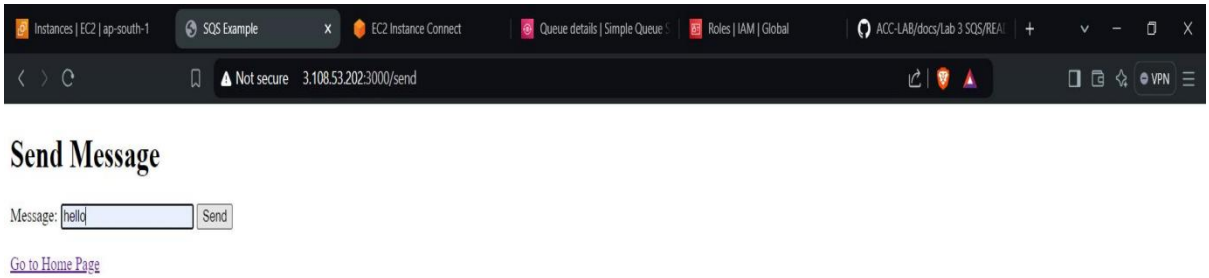

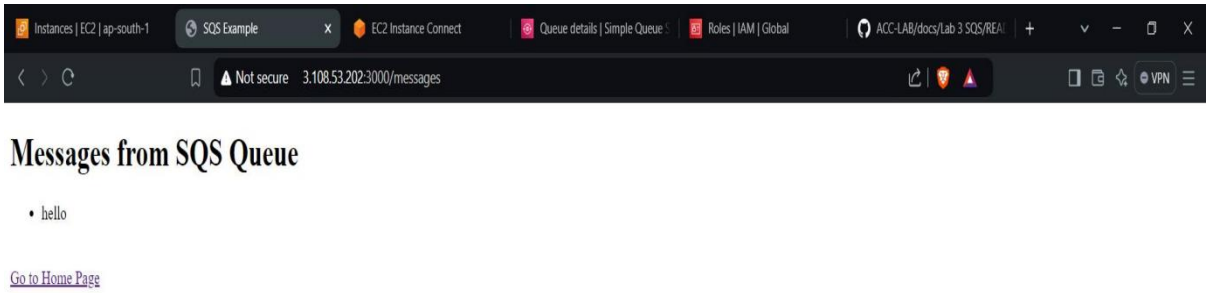

Done.