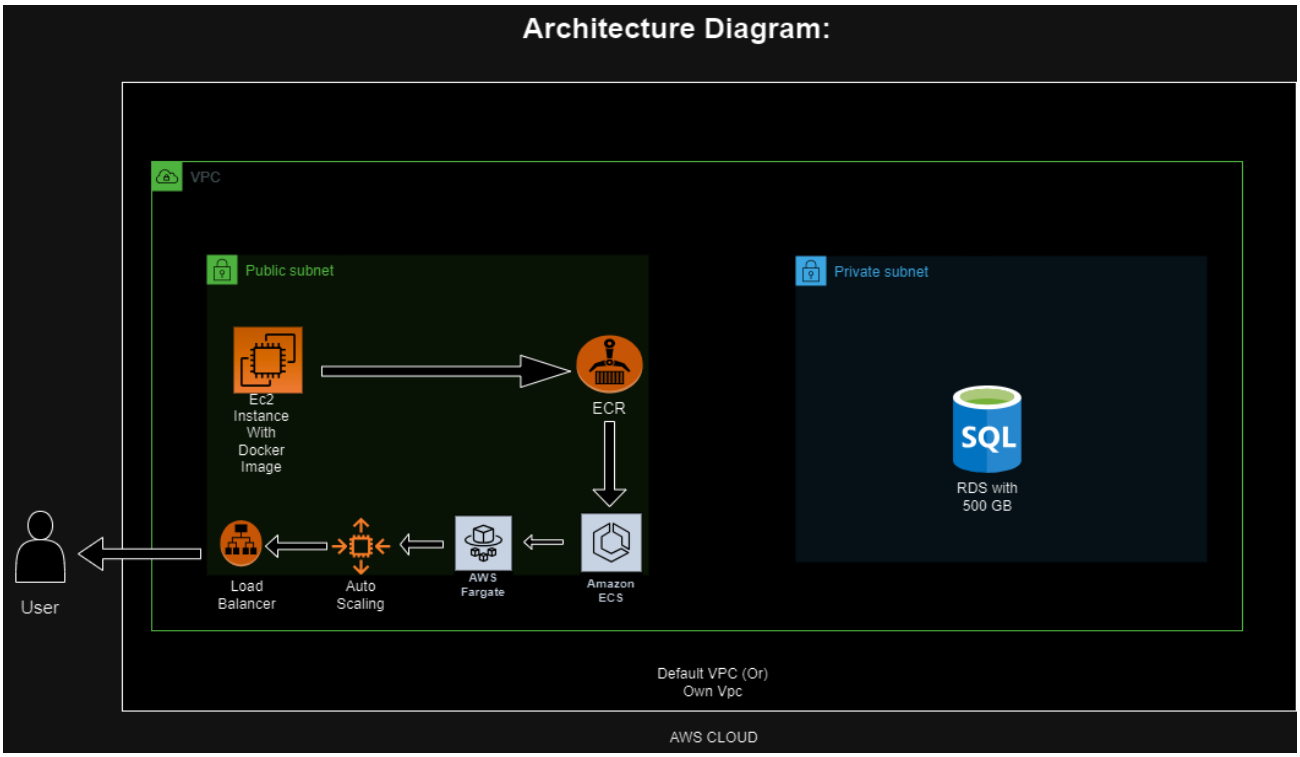
The Process of the project follows below Architecture:



Pre-Requirements:

- Ec2 Instance
- Aws-cli
- Docker

Step1:

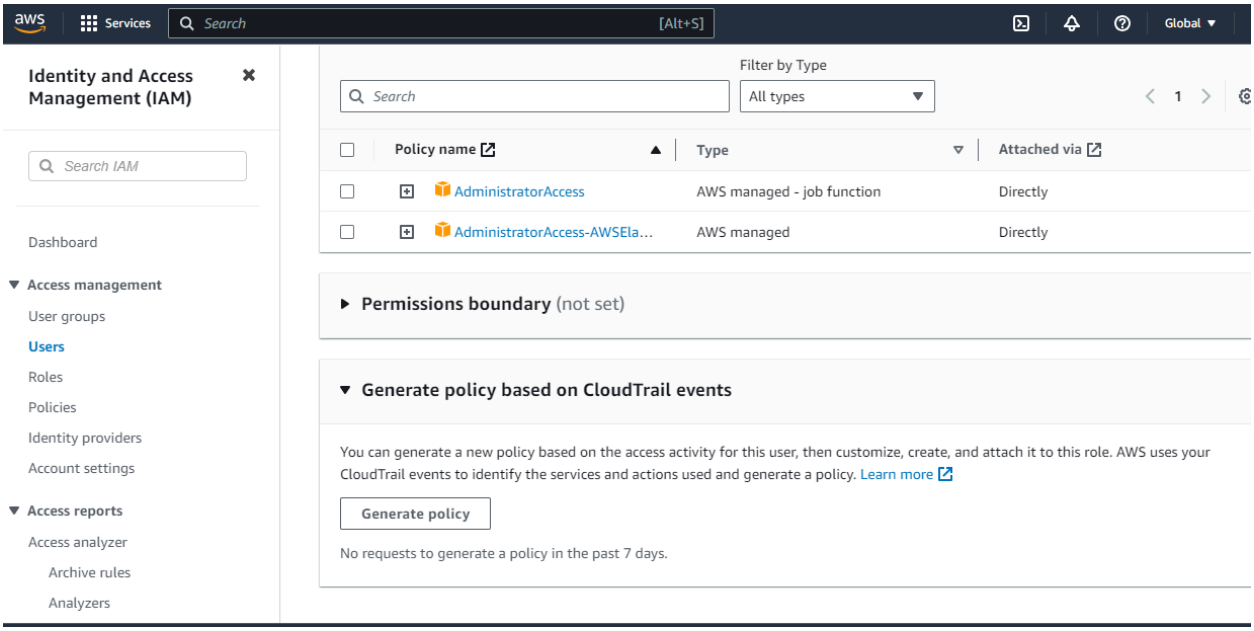
Create a role in AWS with the access of ec2 repository and admin access and create access key:

for further requirements example below.

Access key - AKIA43MM3UB4BSMWHP7D

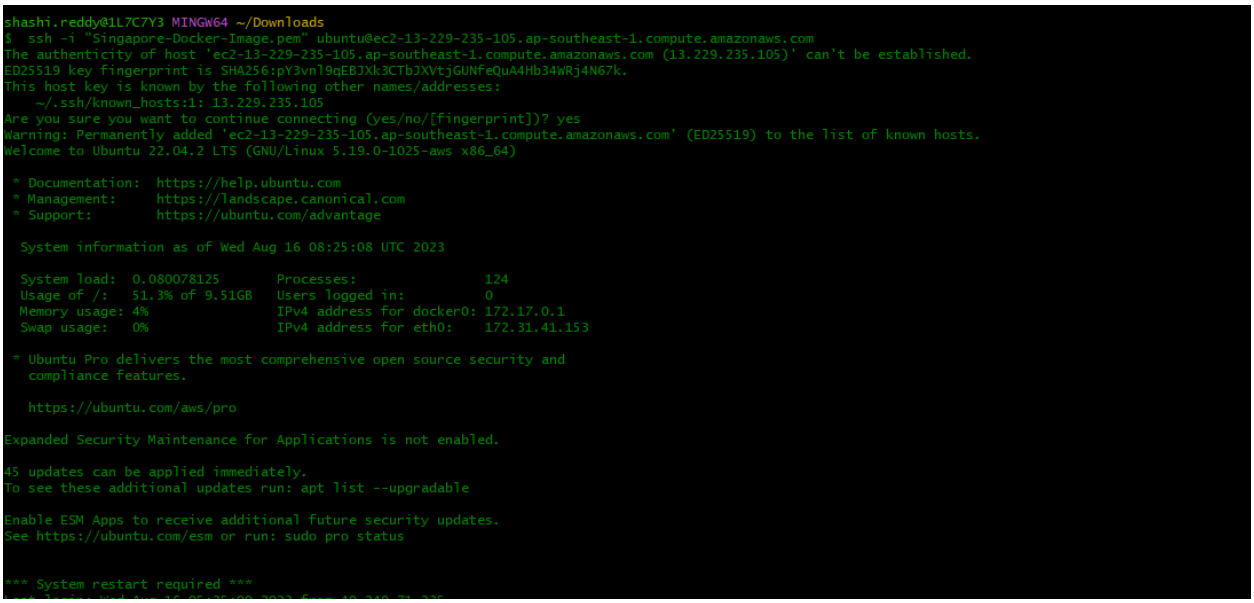
Secret access key - vOWVw00aqv9Kca4G8NkQiWaEyim/Yd5H47XQ9GzX

Region - ap-northeast-1



Step2: Creating the Elastic container repository in Linux:

- Create a Ec2 on ubuntu and login on git bash using the command
- ssh -i "Singapore-Docker-Image.pem" ubuntu@ec2-13-229-235-105.ap-southeast-1.compute.amazonaws.com



- curl "https://awscli.amazonaws.com/awscli-exe-linux-x86_64.zip" -o "awscliv2.zip"

- unzip awscliv2.zip

- apt install unzip -y

- unzip awscliv2.zip

- sudo ./aws/install (To check the path where it installed)

- AWS –version
- AWS configure (enter the id and password details of the iam role which u have been created)

Step3:

- Git clone https://github.com/shashikumar04433/FCRAnew.git (or we can drag and drop the files using tools)
- Create a docker file.

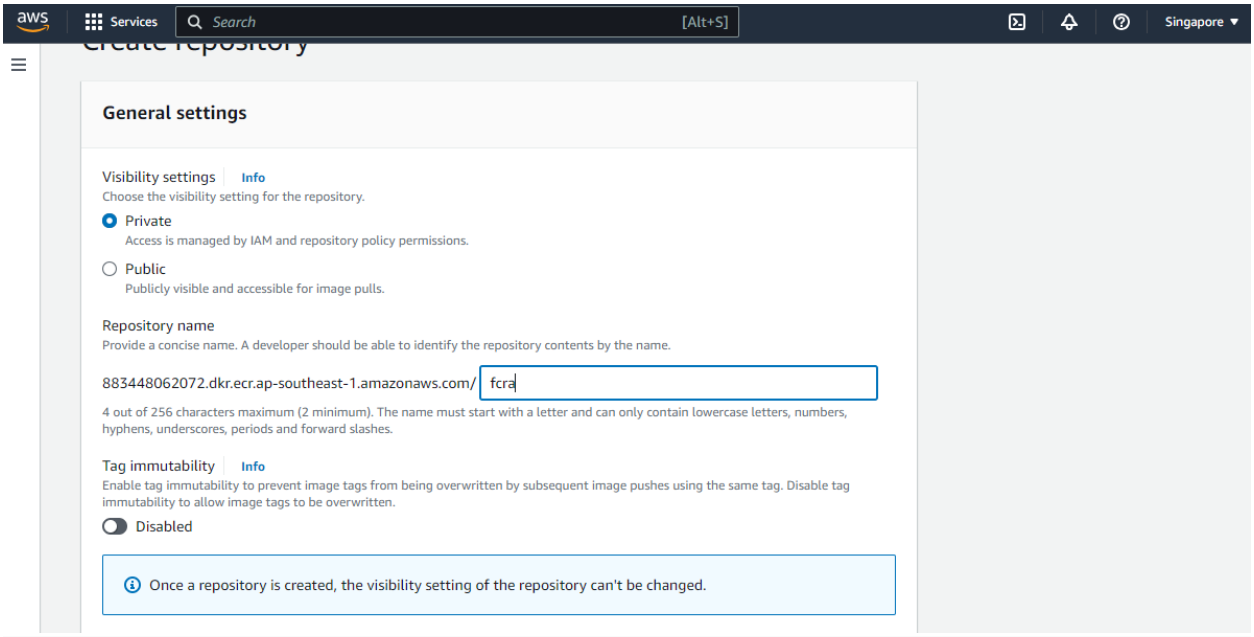
- Vi Dockerfile
-

Step4: Create a ECR named Docker-ECR and then click on push commands and choose Linux:

- aws ecr get-login-password --region ap-southeast-1 | docker login --username AWS --password-stdin 883448062072.dkr.ecr.ap-southeast-1.amazonaws.com
- docker build -t fcra .
- docker images

- docker tag fcra:latest 883448062072.dkr.ecr.ap-southeast-1.amazonaws.com/fcra:latest

- docker push 883448062072.dkr.ecr.ap-southeast-1.amazonaws.com/fcra:latest



Push commands for fcra

macOS / Linux | Windows

Make sure that you have the latest version of the AWS CLI and Docker installed. For more information, see Getting Started with Amazon ECR.

Use the following steps to authenticate and push an image to your repository. For additional registry authentication methods, including the Amazon ECR credential helper, see Registry Authentication.

1. Retrieve an authentication token and authenticate your Docker client to your registry.
   Use the AWS CLI:

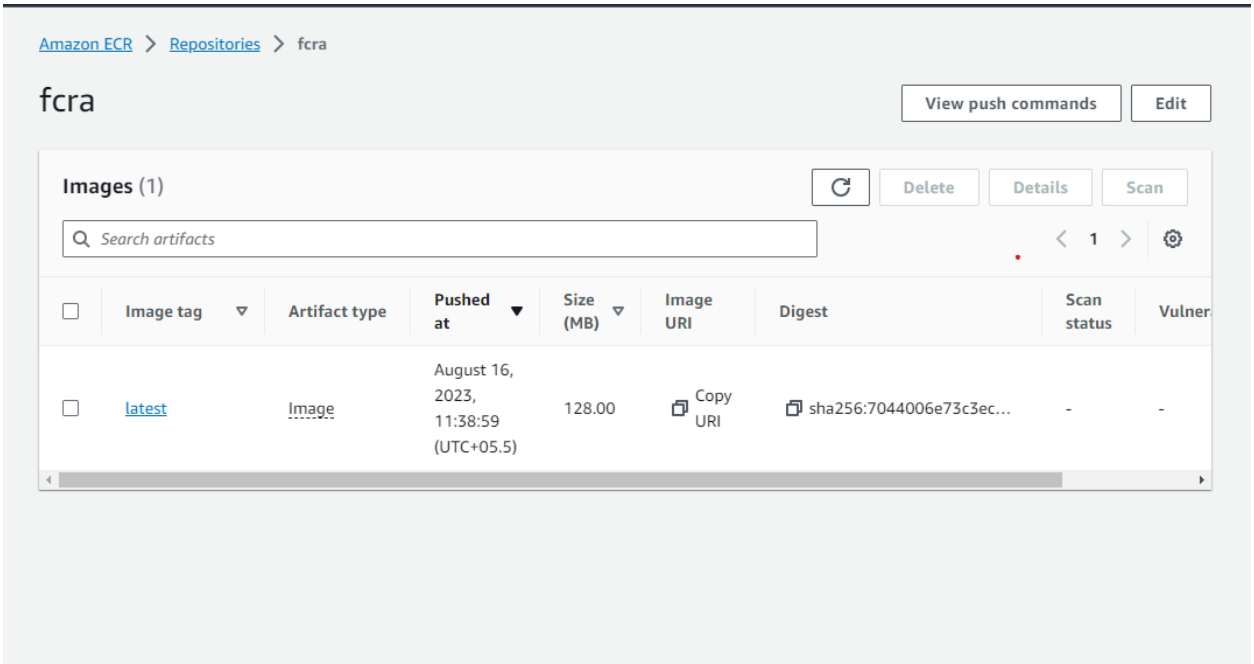
   ```
   aws ecr get-login-password --region ap-southeast-1 | docker login --username AWS --password-stdin 883448062072.dkr.ecr.ap-southeast-1.amazonaws.com
   ```

   Note: If you receive an error using the AWS CLI, make sure that you have the latest version of the AWS CLI and Docker installed.
2. Build your Docker image using the following command. For information on building a Docker file from scratch see the instructions here. You can skip this step if your image is already built:

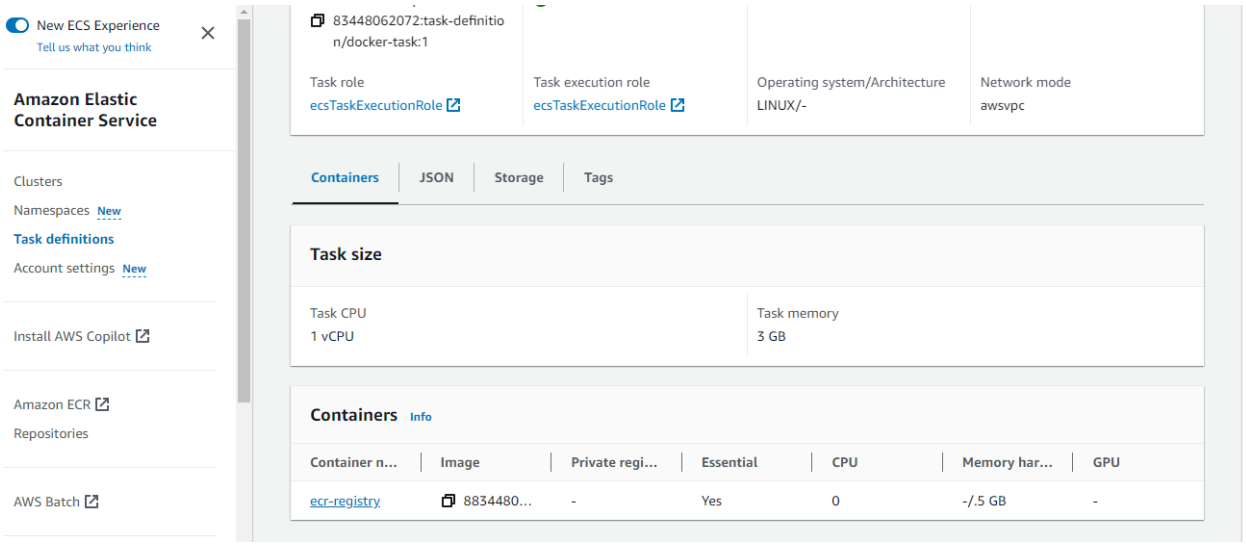
   ```
   docker build -t fcra .
   ```
3. After the build completes, tag your image so you can push the image to this repository:

   ```
   docker tag fcra:latest 883448062072.dkr.ecr.ap-southeast-1.amazonaws.com/fcra:latest
   ```

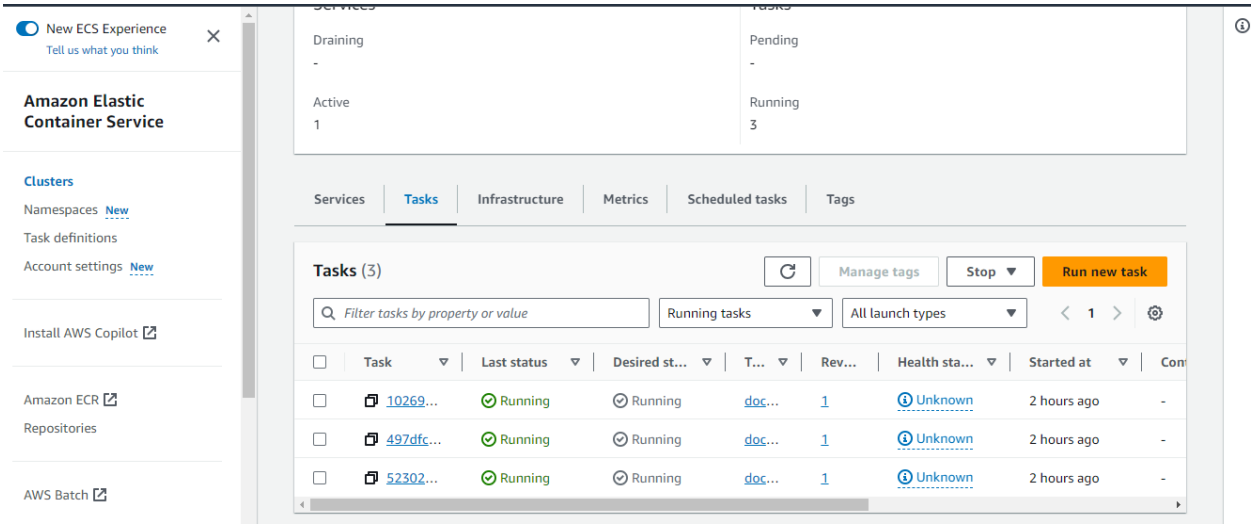
Close



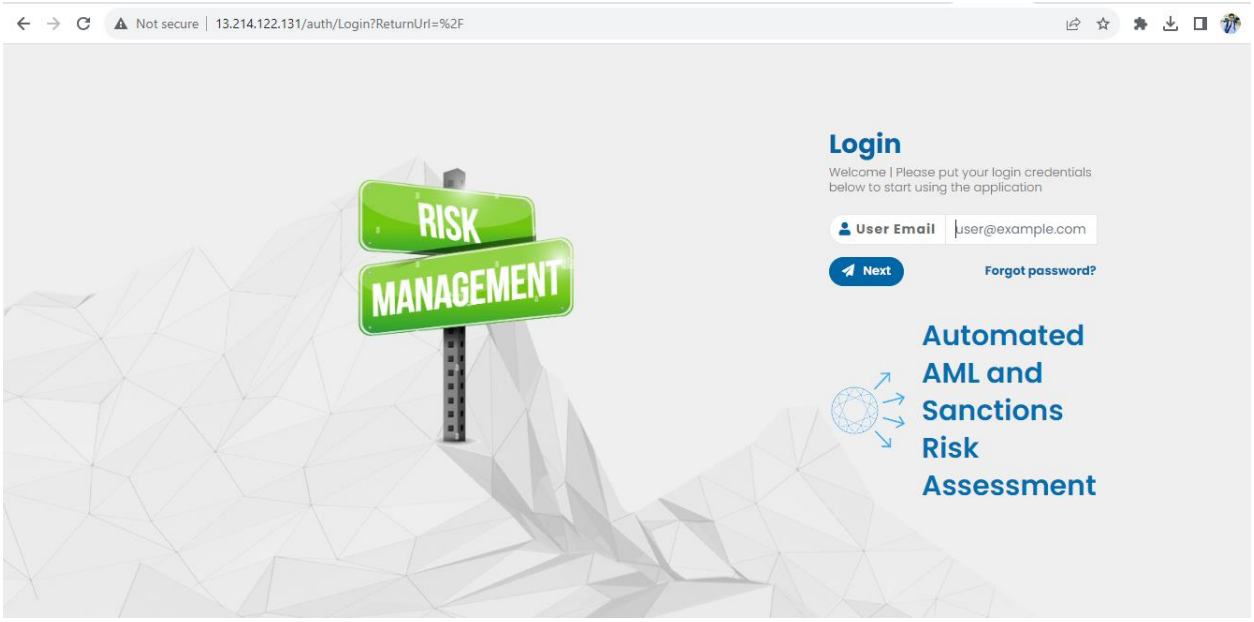
Step5: Create a ECS and attach the docker ECR image url.



Create a service and tasks to view in browser.

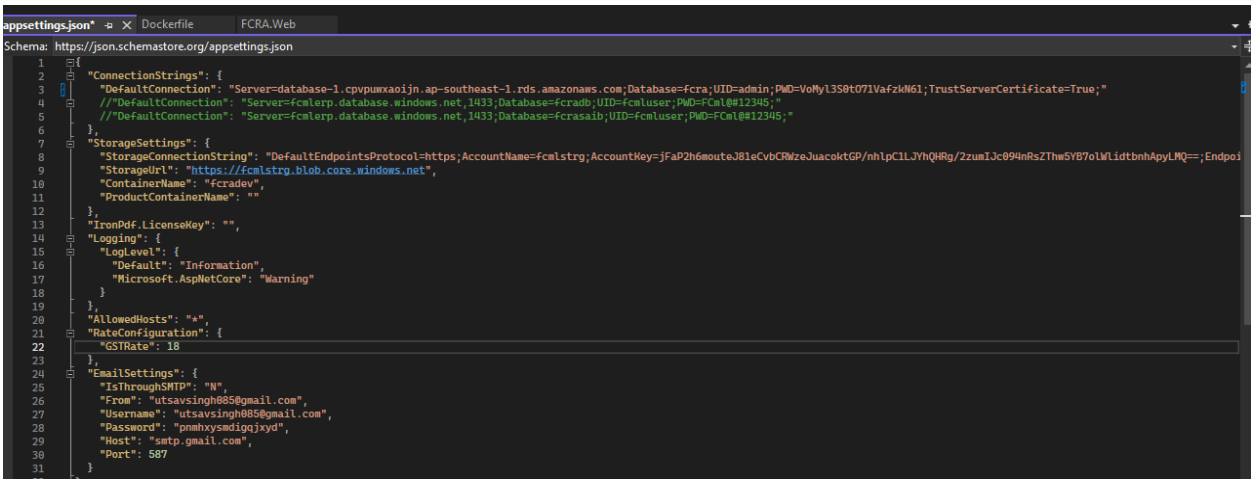


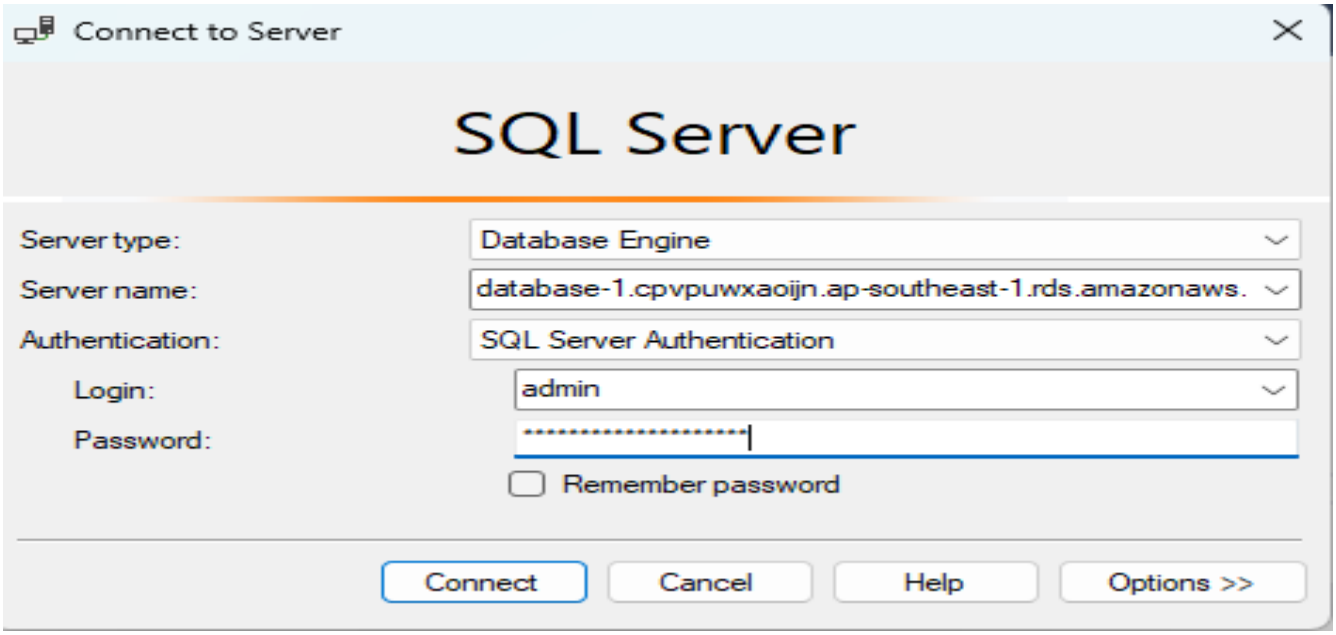
- **Copy the public ip and paste in the brower.**



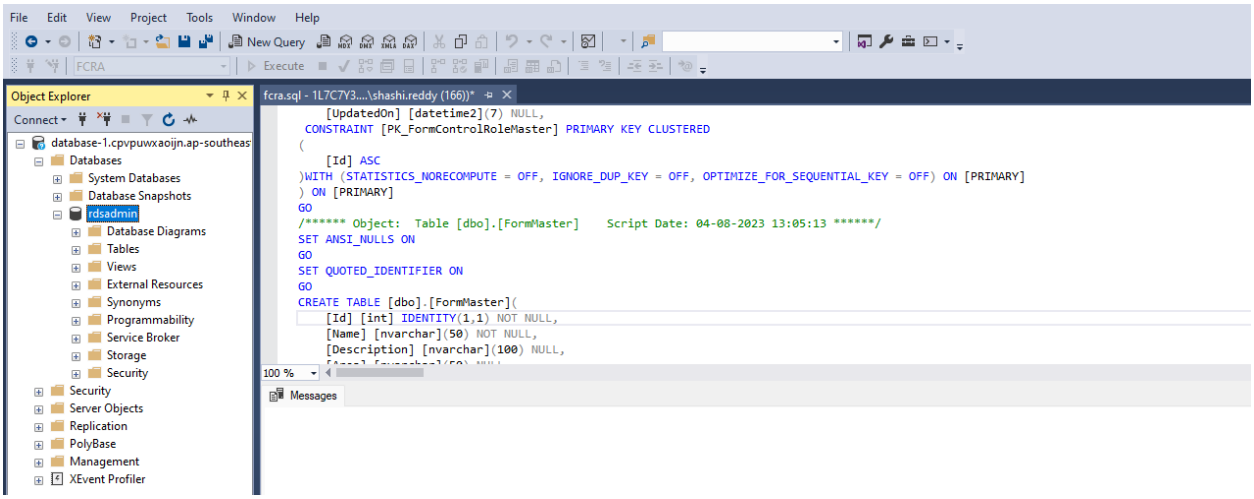
Step6: Create a database for the above ui and attach to it:

- Attach the database server in the local file app.json and connect it to the database.





- Connected to the database using the above details.


File Edit View Project Tools Window Help
New Query
FCRA
Execute
Object Explorer
Connect
database-1.cpvpuwxaoijn.ap-southeast
Databases
System Databases
Database Snapshots
rdsadmin
Database Diagrams
Tables
Views
External Resources
Synonyms
Programmability
Service Broker
Storage
Security
Security
Server Objects
Replication
PolyBase
Management
XEvent Profiler
fcra.sql - 1L7C7Y3....\shashi.reddy (166))*
[UpdatedOn] [datetime2](7) NULL,
CONSTRAINT [PK_FormControlRoleMaster] PRIMARY KEY CLUSTERED
(
[Id] ASC
)WITH (STATISTICS_NORECOMPUTE = OFF, IGNORE_DUP_KEY = OFF, OPTIMIZE_FOR_SEQUENTIAL_KEY = OFF) ON [PRIMARY]
) ON [PRIMARY]
GO
/****** Object: Table [dbo].[FormMaster] Script Date: 04-08-2023 13:05:13 ******/
SET ANSI_NULLS ON
GO
SET QUOTED_IDENTIFIER ON
GO
CREATE TABLE [dbo].[FormMaster](
[Id] [int] IDENTITY(1,1) NOT NULL,
[Name] [nvarchar](50) NOT NULL,
[Description] [nvarchar](100) NULL,
100 %
Messages