DOCKERFILE

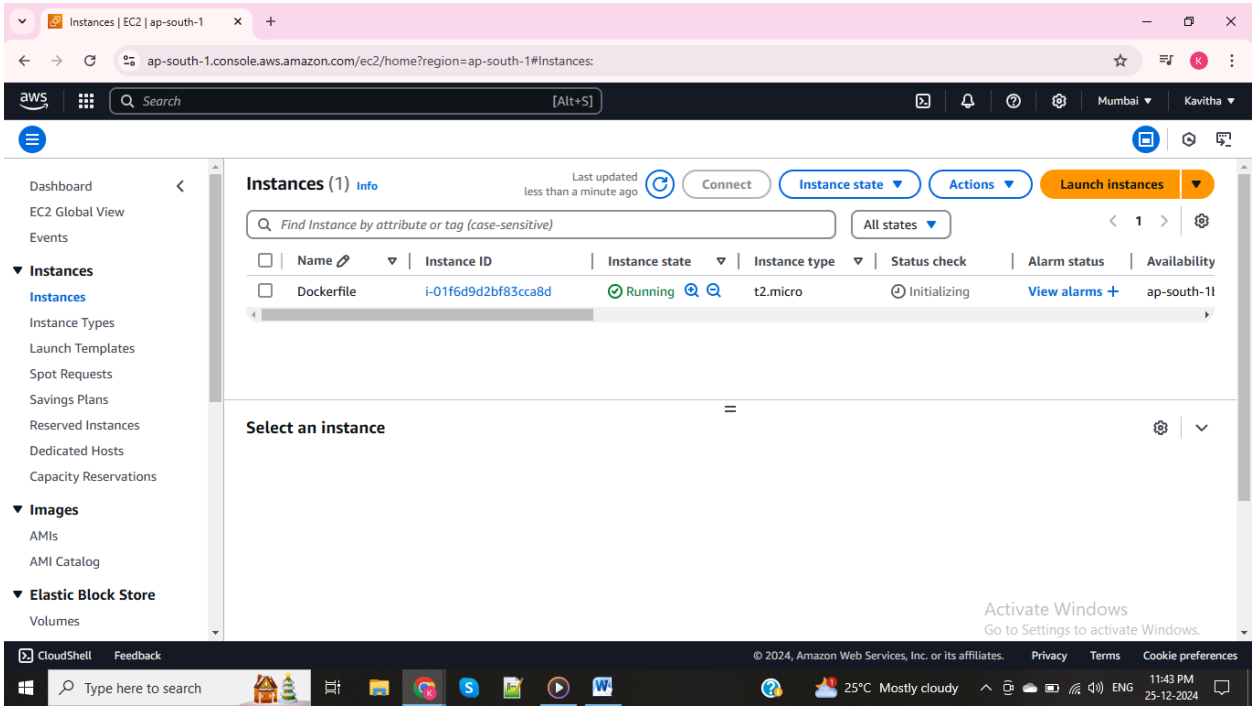
A **Dockerfile** is a text file that contains a set of instructions to automate the process of building a **Docker image**. Each instruction in the Dockerfile specifies a command or operation that Docker performs in order to assemble the image.

The Dockerfile allows developers to create lightweight, portable, and consistent environments for their applications by defining dependencies, configurations, and the application code itself.

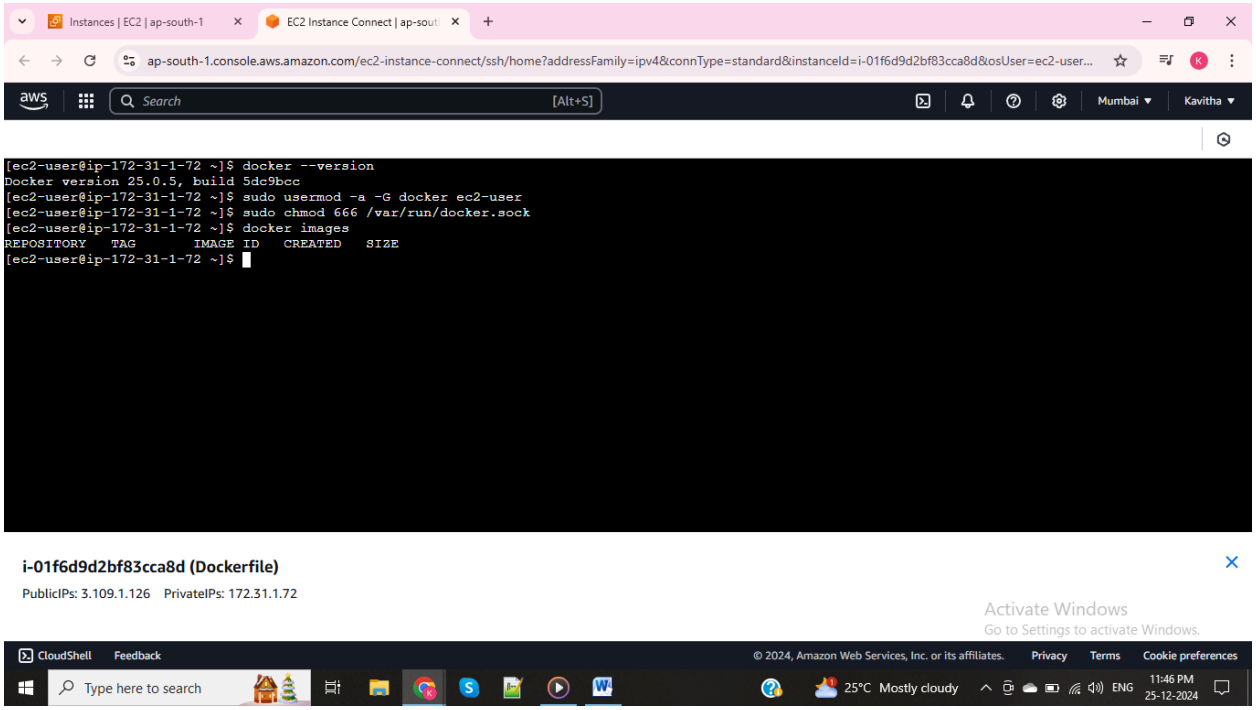
Key Features of Dockerfile

1. **Automation**: Automates the image creation process.
2. **Version Control**: Dockerfiles can be managed in version control systems like Git, allowing easy collaboration and tracking of changes.
3. **Consistency**: Ensures the same environment across different deployments (e.g., development, testing, production).
4. **Reusability**: You can reuse the Dockerfile across teams or projects.

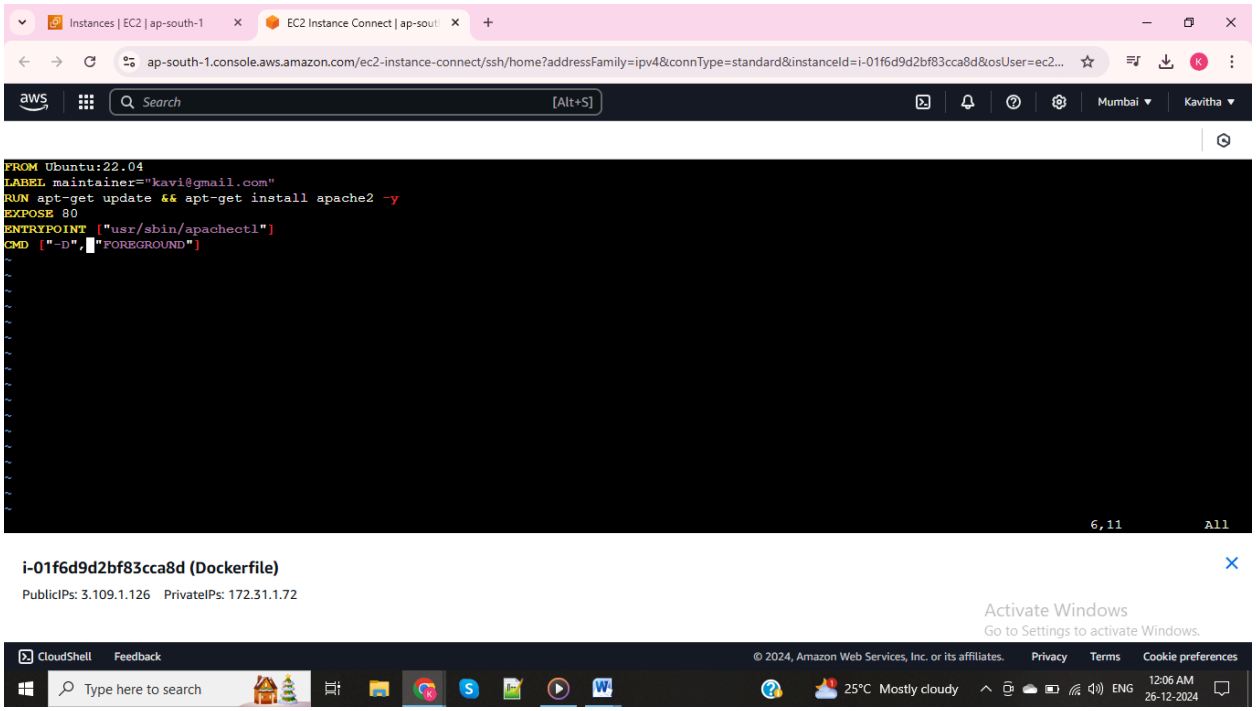
Steps 1: Create a EC2 instance and launch instance



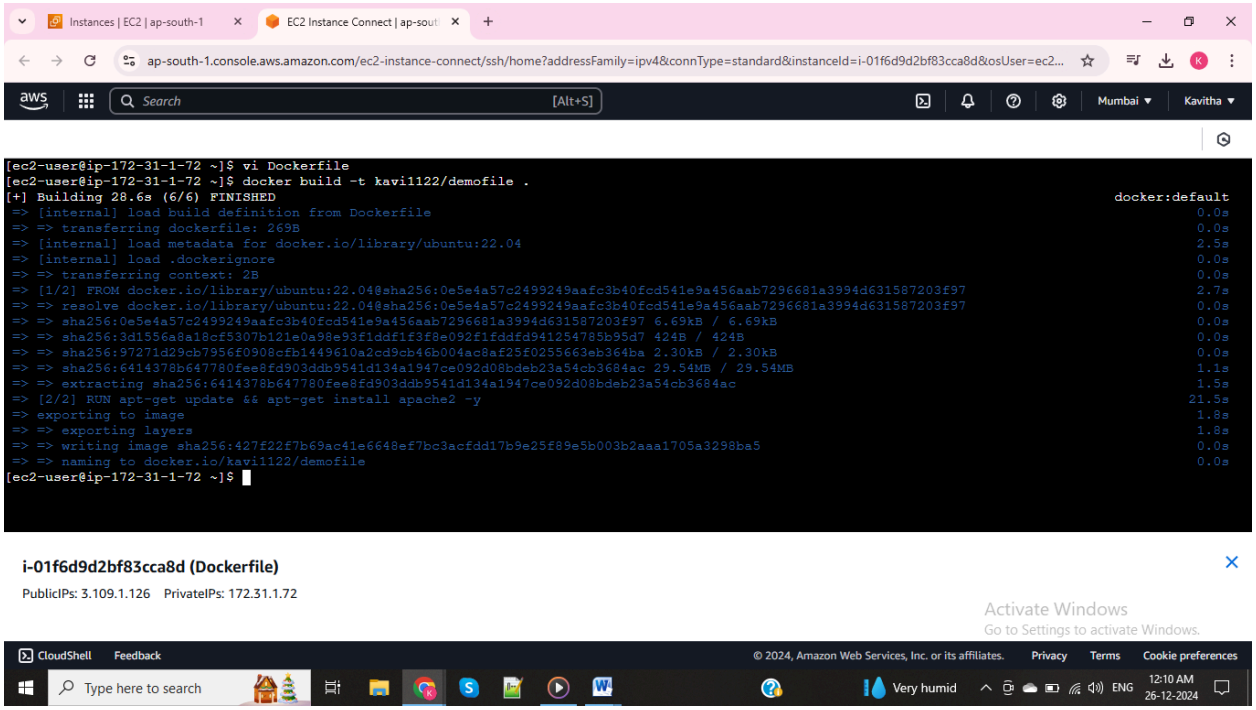
2. Install Docker and add user with docker and allow permissions



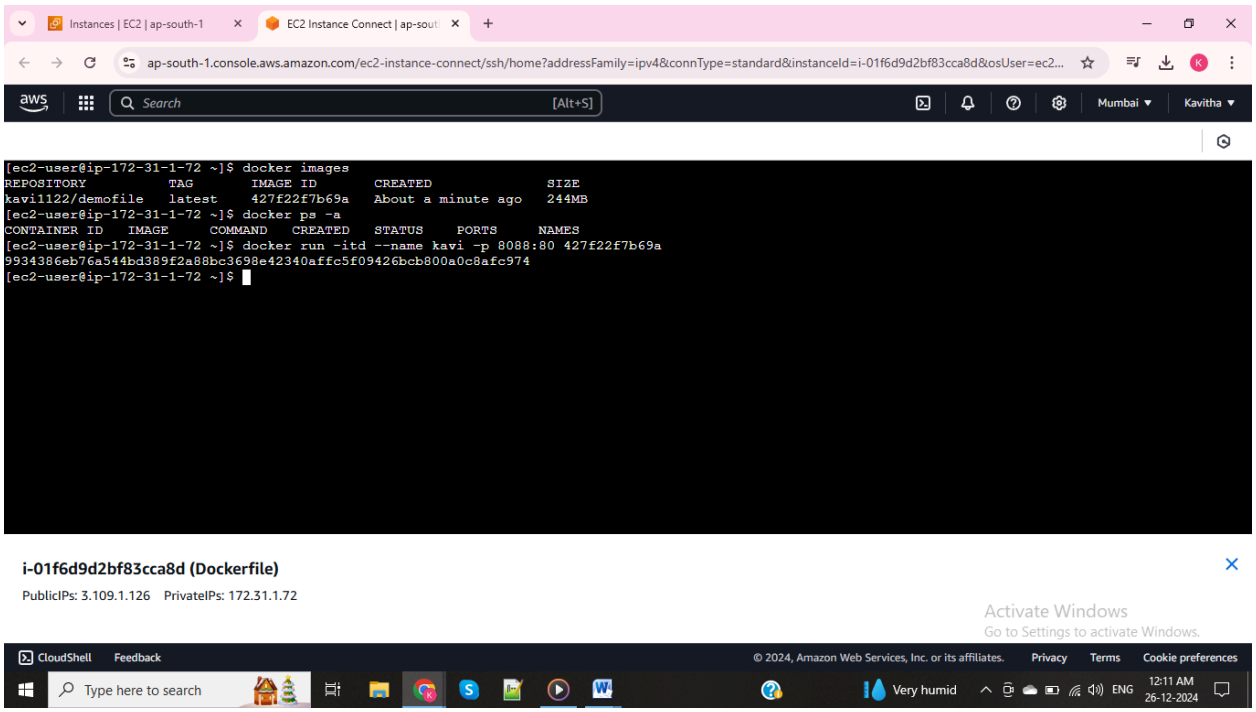
3. Using Dockerfile ATTRIBUTES creating a Apache2 image



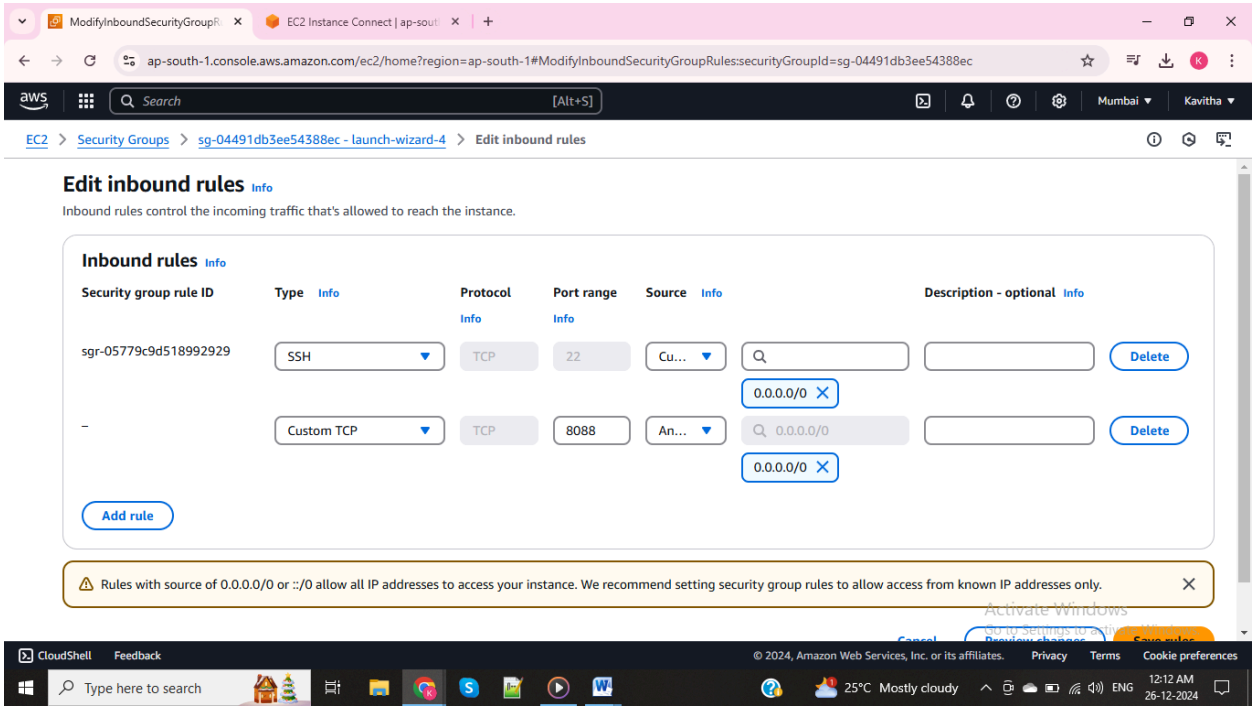
4. To build the Dockerfile --> docker build -t kavi1122/demofile .



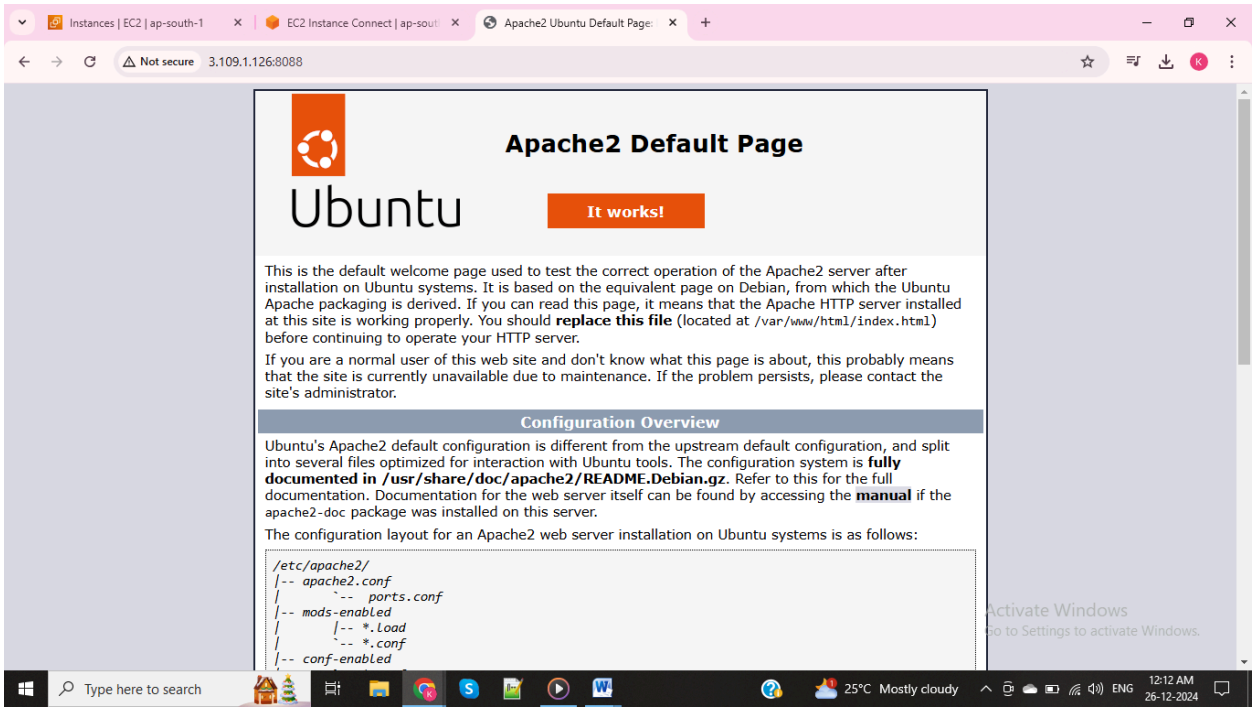
5. Now, Checking the image was created and from that image created container with specific port number.



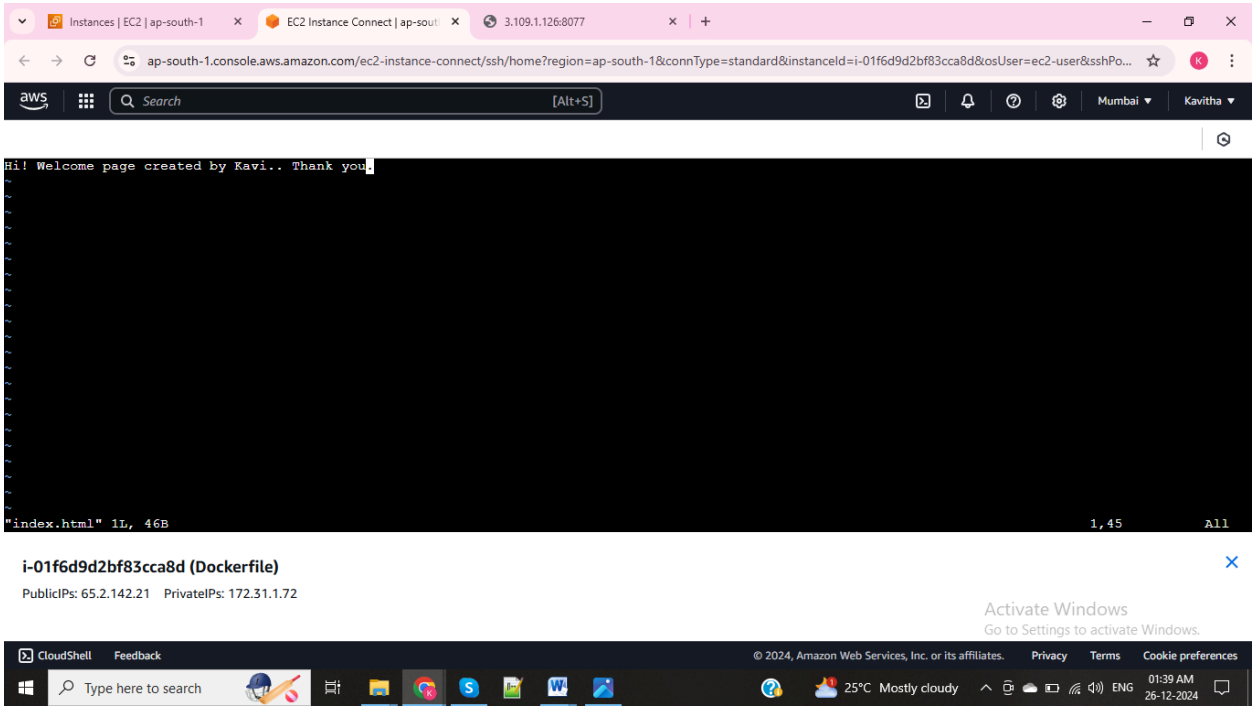
6. Then Edited the security group inbound rules for allowing the port number



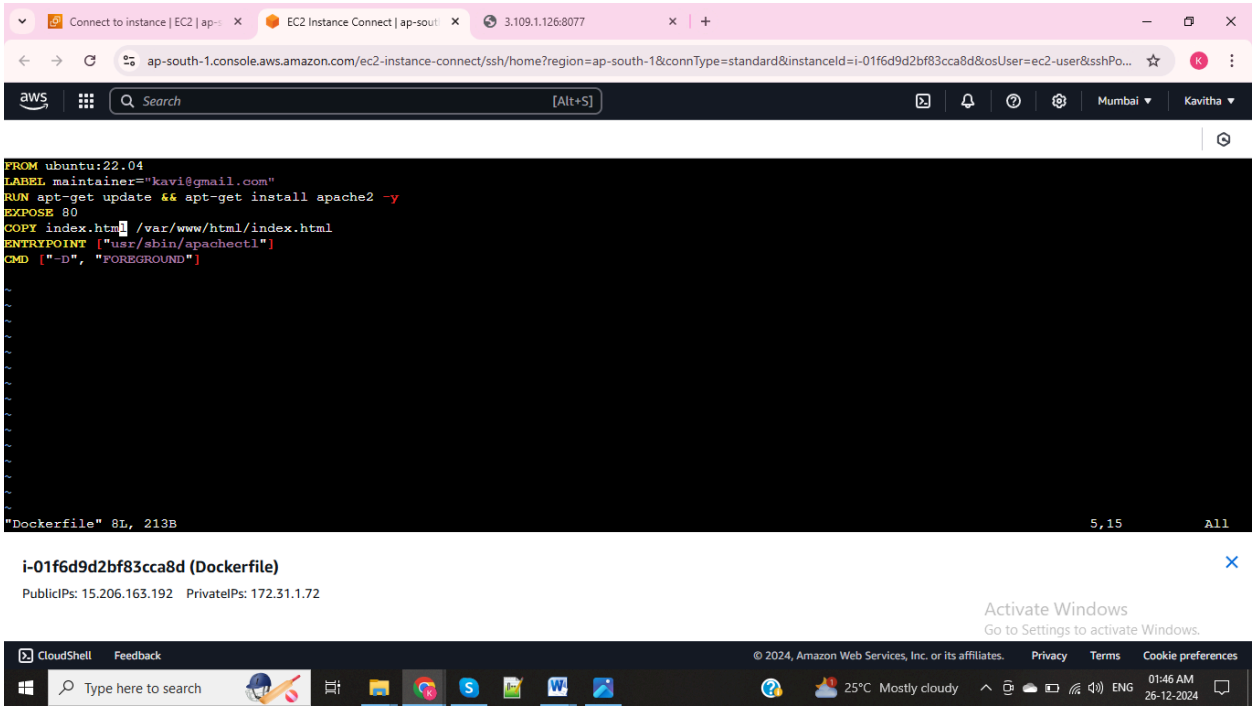
7. OUTPUT



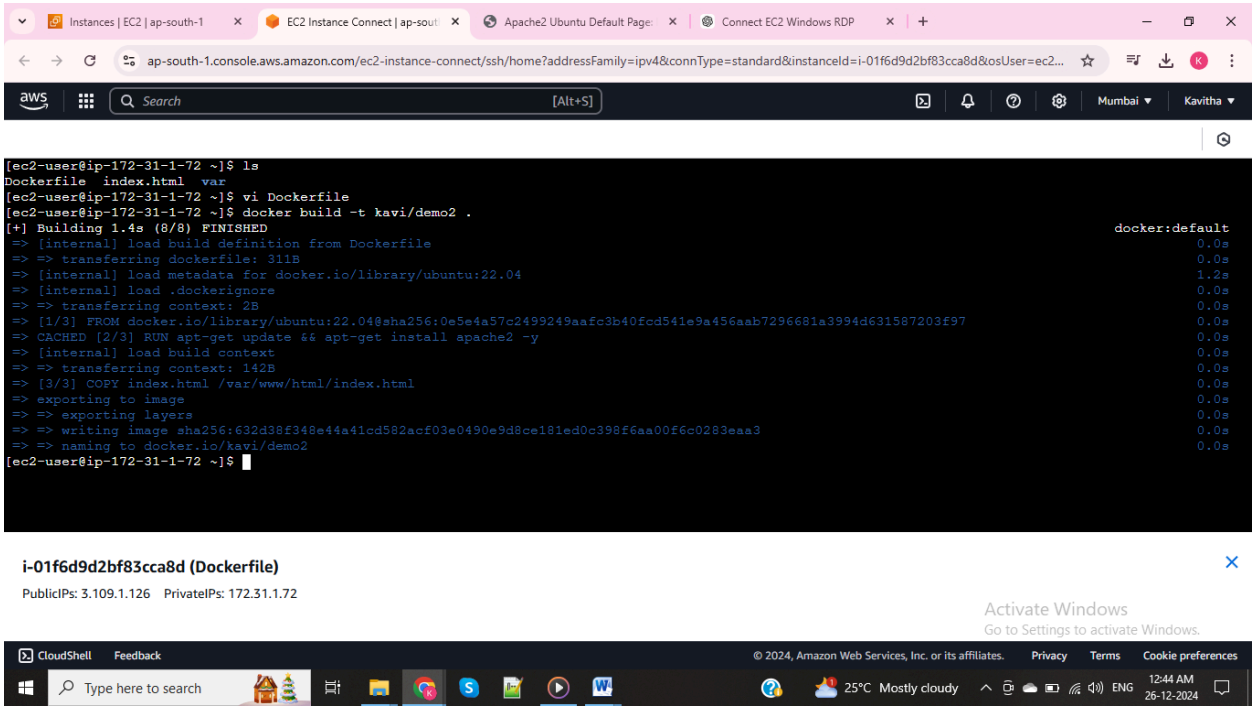
8. Created a index.html file and given some text in that



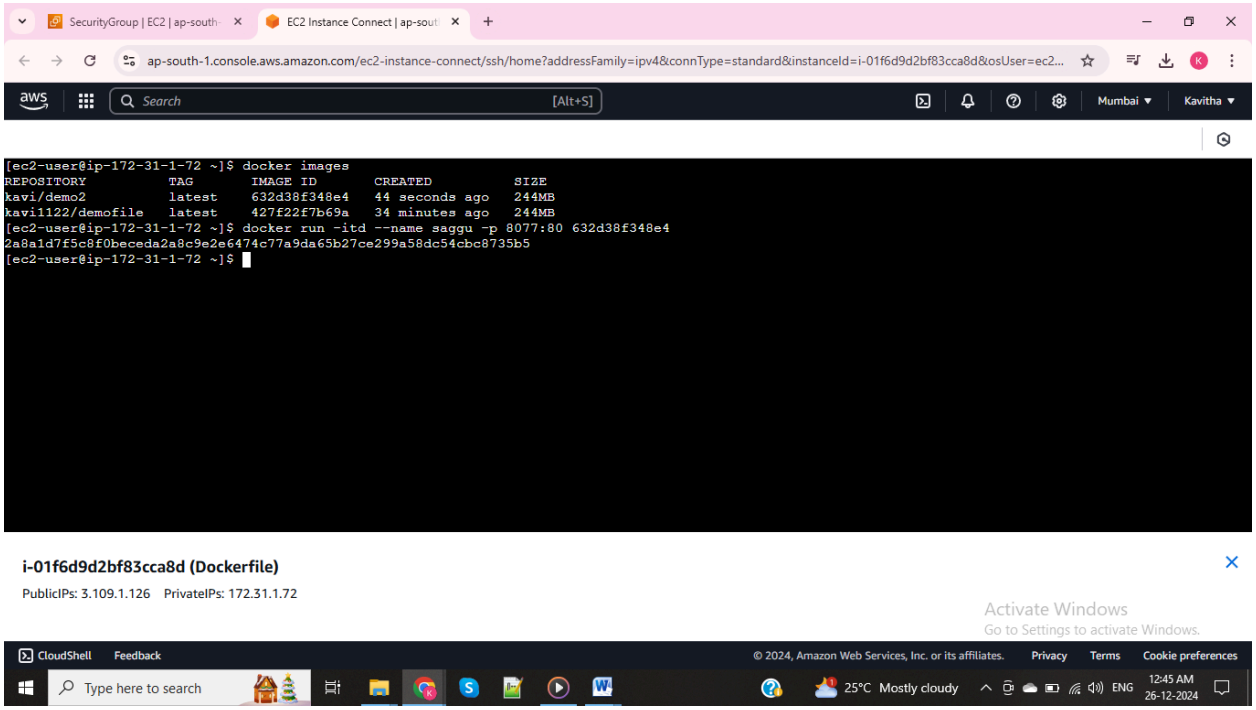
9. Edited the Dockerfile



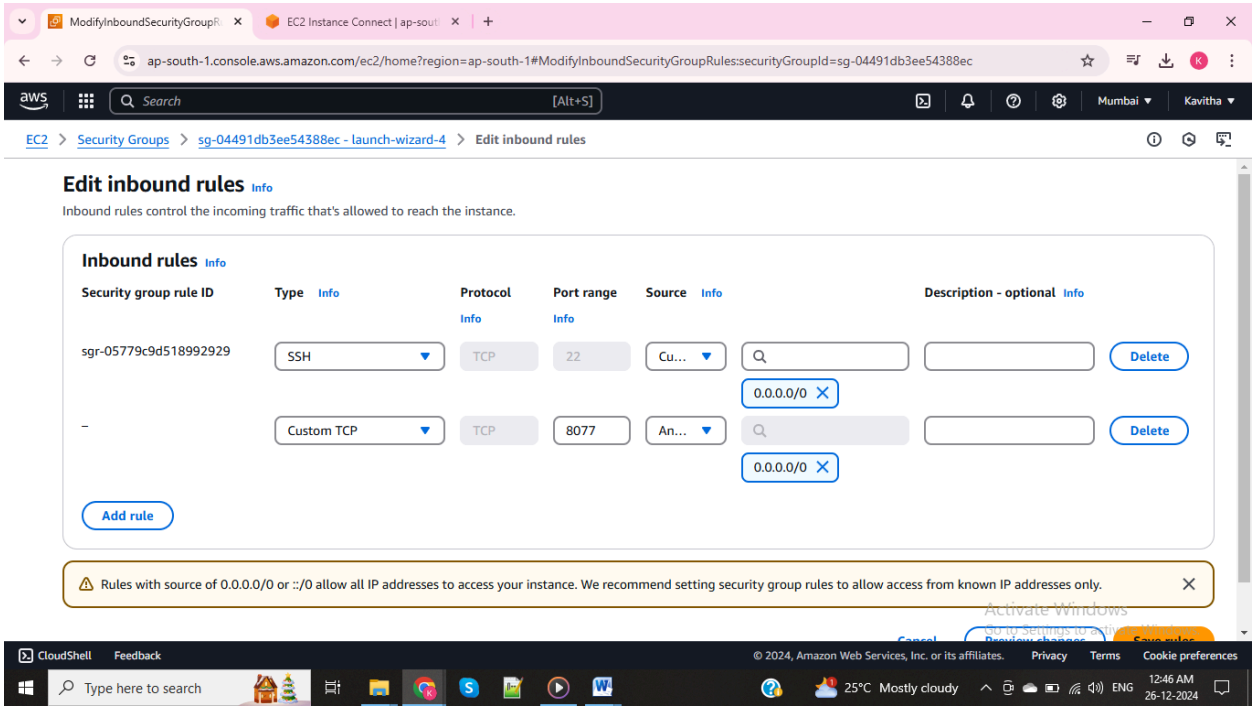
10. Dockerfile build successfully



11. Created a container using custom image



12. Edited the inbound rules in security group



13. OUTPUT