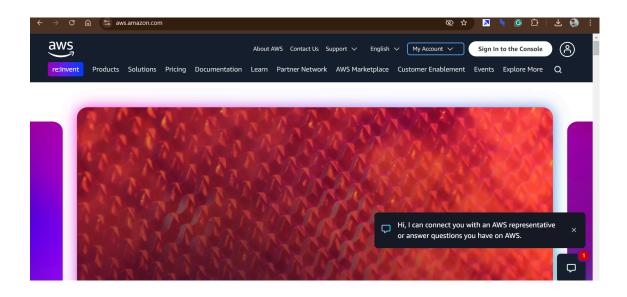
<u>Steps to Deploy an Angular Application in an ec2</u> <u>instance with Dockeraize and without Dockeraize</u>

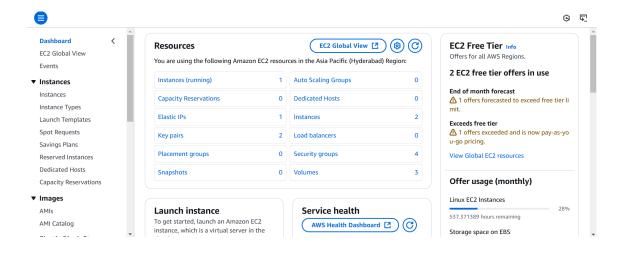
Method 1 :

Without Dockeraize :

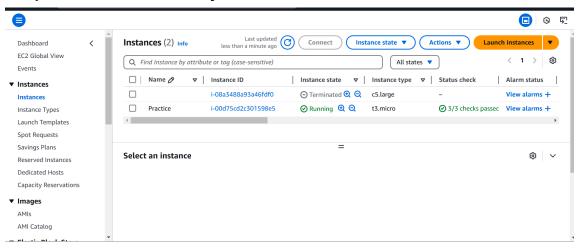
Step 1: Log in to your AWS console using your credentials.

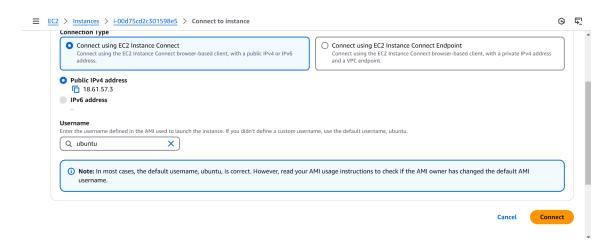


Step 2: Search for Ec2 in the AWS Console. Click on Launch Instance. (Ubuntu / Linux)



Step 3: Connect to your Ec2 instance

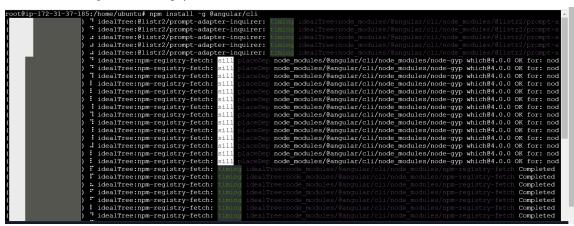




Step 4: Download and install Nodejs and npm. Use the following commands.

root@ip-172-31-37-185:/home/ubuntu# sudo apt install nodejs -y
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
nodejs is already the newest version (18.19.1+dfsg-6ubuntu5).
nodejs set to manually installed.
0 upgraded, 0 newly installed, 0 to remove and 0 not upgraded.
root@ip-172-31-37-185:/home/ubuntu#

• Npm install -g @angular/cli (Install Angular CLI globally).



 Ng new my-angular-app, cd my-angular-app (Create a new Angular app and go inside the created director).

```
root@ip-172-31-37-185:/home/ubuntu# cd my-angular-app/root@ip-172-31-37-185:/home/ubuntu/my-angular-app#
```

Ng serve(Test the Angular app locally).

- Ng build --prod / ng build --configuration production (Build the production-ready app . The build files will be in the dist/my-angular-app folder).
- In the network settings of your ec2 instance, add all SSH, HTTP, and a custom TCP rule for your application port (e.g., 4200).
- Copy your ec2 instance public IP address or the private IP address along with your application port id and paste it into the web browser and your application is good to go.



Method 2 : With Dockerize

Step 1: Create a Dockerfile in the root of your Angular project.

Use a lightweight web server
FROM nginx:alpine

Copy built Angular files to the NGINX HTML folder
COPY dist/ct-name> /usr/share/nginx/html

Expose the default NGINX port EXPOSE 80

Start NGINX
CMD ["nginx", "-g", "daemon off;"]

Replace roject-name> with the actual name of your
Angular project.

Step 2 : Build the Docker Image :

docker build -t angular-app .

Step 3: Push the image (Optional)

Push the image to docker Hub or any other container registry .

docker tag angular-app
<your-dockerhub-username>/angular-app
docker push <your-dockerhub-username>/angular-app

Step 4 : Connect to your Ec2 instance .

Step 5 : Pull your docker image from your docker hub or any other registry .

docker pull <your-dockerhub-username>/angular-app

Step 6: Run the container

docker run -d -p 80:80 angular-app

Your Angular app will be now available on http ://<EC2-Instance-IP>