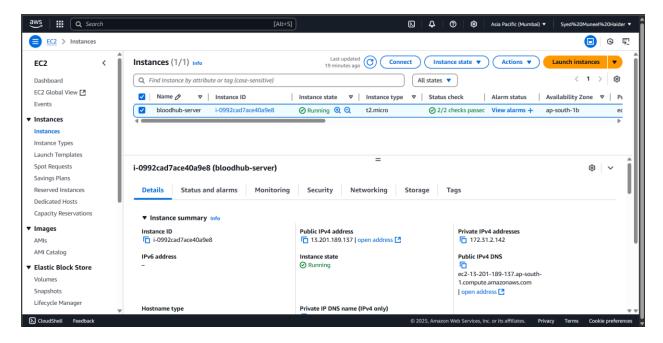
# GitHub: https://github.com/MuneelHaider/BloodHub BACKEND:

1. LAUNCHING EC2 INSTANCE:



2. Connecting to EC2 Machine:

3. Using Docker to build the images and up the containers:

4. Checking and confirmation if containers are up.

```
=> exporting to image
=> => exporting layers
=> => writing image sha256:5b8b37e626d3199a967df436d09eed3dab470f9f4fbd28ee9ad60d28412d219e
=> => naming to docker.io/library/bloodhub-backend
[ec2-user@ip-172-31-2-142 server]$ docker run -d -p 5000:5000 --env-file .env bloodhub-backend
d484e30b8c00b5ca137331bf82a9110f1bb89a2f898a1f08b08e7860a95bef0e
[ec2-user@ip-172-31-2-142 server]$ docker ps
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS
NAMES
d484e30b8c00 bloodhub-backend "docker-entrypoint.s..." 13 seconds ago Up 12 seconds 0.0.0:5000->5000/tcp, :::5
000->5000/tcp recursing_saha
[ec2-user@ip-172-31-2-142 server]$
```

5. Security group created for EC2 Instance.

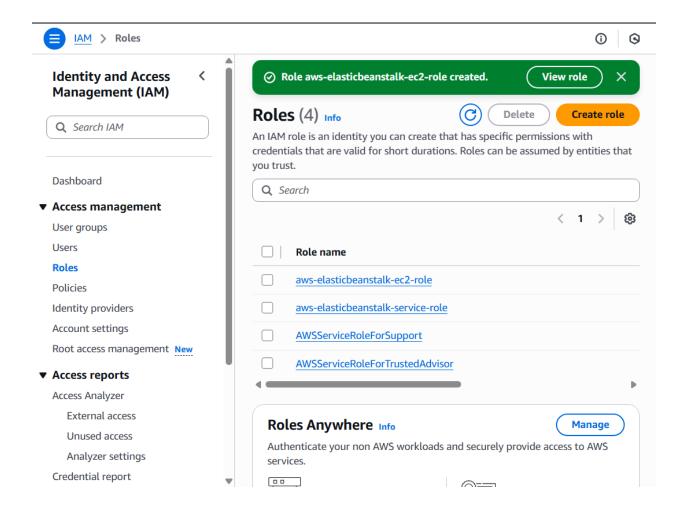
## **Security groups**



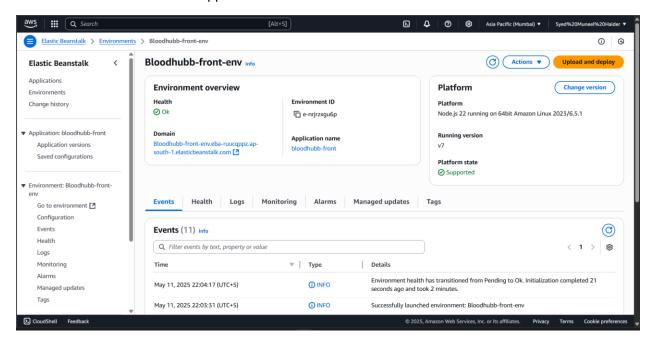
sg-0204f6a9a1a285248 (launch-wizard-2)

## **FRONTEND:**

1. Created new IAM role for Elastic Beanstalk Instance:



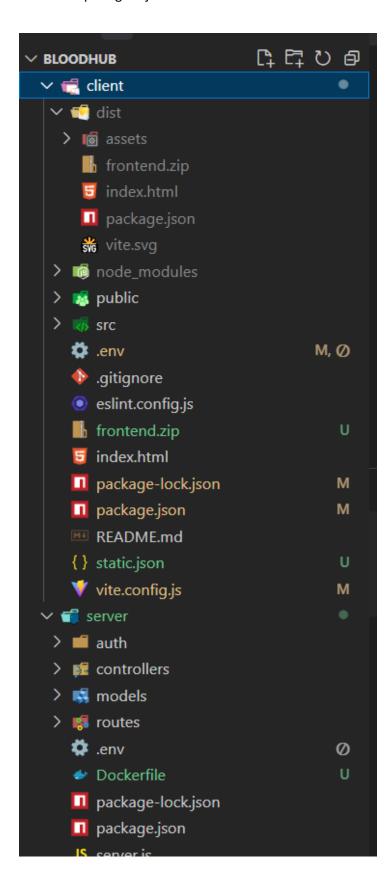
2. New environment and application created:



3. Proof that everything is working:

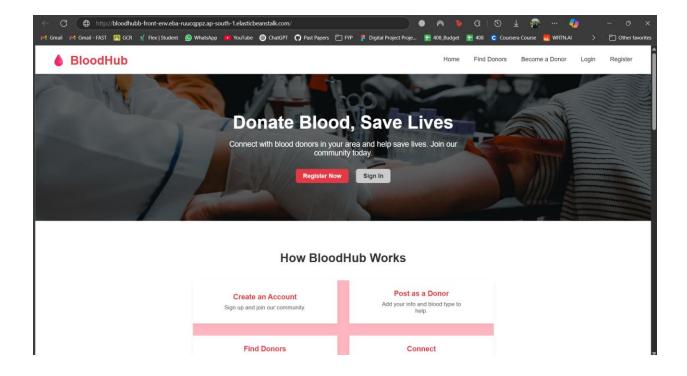
Time	▼	Туре	Details
May 11, 2025 22:04:17 (UTC+5)		1 INFO	Environment health has transitioned from Pending to Ok. Initialization completed 21 seconds ago and took 2 minutes.
May 11, 2025 22:03:31 (UTC+5)		(i) INFO	Successfully launched environment: Bloodhubb-front-env
May 11, 2025 22:03:30 (UTC+5)		1 INFO	Application available at Bloodhubb-front-env.eba-ruucqppz.ap-south-1.elasticbeanstalk.com.
May 11, 2025 22:03:17 (UTC+5)		(i) INFO	Added instance [i-011e48483558191d4] to your environment.
May 11, 2025 22:03:13 (UTC+5)		(i) INFO	Instance deployment completed successfully.
May 11, 2025 22:02:17 (UTC+5)		1 INFO	Environment health has transitioned to Pending. Initialization in progress (running for 47 seconds). There are no instances.
May 11, 2025 22:02:03 (UTC+5)		(i) INFO	Waiting for EC2 instances to launch. This may take a few minutes.
May 11, 2025 22:01:47 (UTC+5)		(i) INFO	Created EIP: 52.66.107.94
May 11, 2025 22:01:32 (UTC+5)		1 INFO	Created security group named: awseb-e-nrjrzxgu6p-stack-AWSEBSecurityGroup-Z47p6mrqLFbp
May 11, 2025 22:01:12 (UTC+5)		1 INFO	Using elasticbeanstalk-ap-south-1-058264539896 as Amazon S3 storage bucket for environment data.
May 11, 2025 22:01:11 (UTC+5)		(i) INFO	createEnvironment is starting.

### 4. Project Folder Structure:



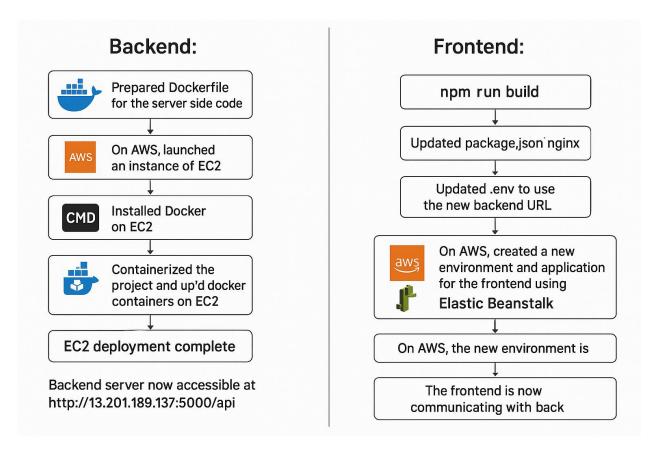
# **WEBSITE:**

## 1. THE WEBSITE IS FULLY FUNCTIONAL:



## 2. ALL CRUD OPERATION ARE FUNCTIONAL.

#### 3. DIAGRAM:



#### 4. DIAGRAM:

