**DOCKER - POC**

1. Write a docker file for Java

Launch EC2 instance

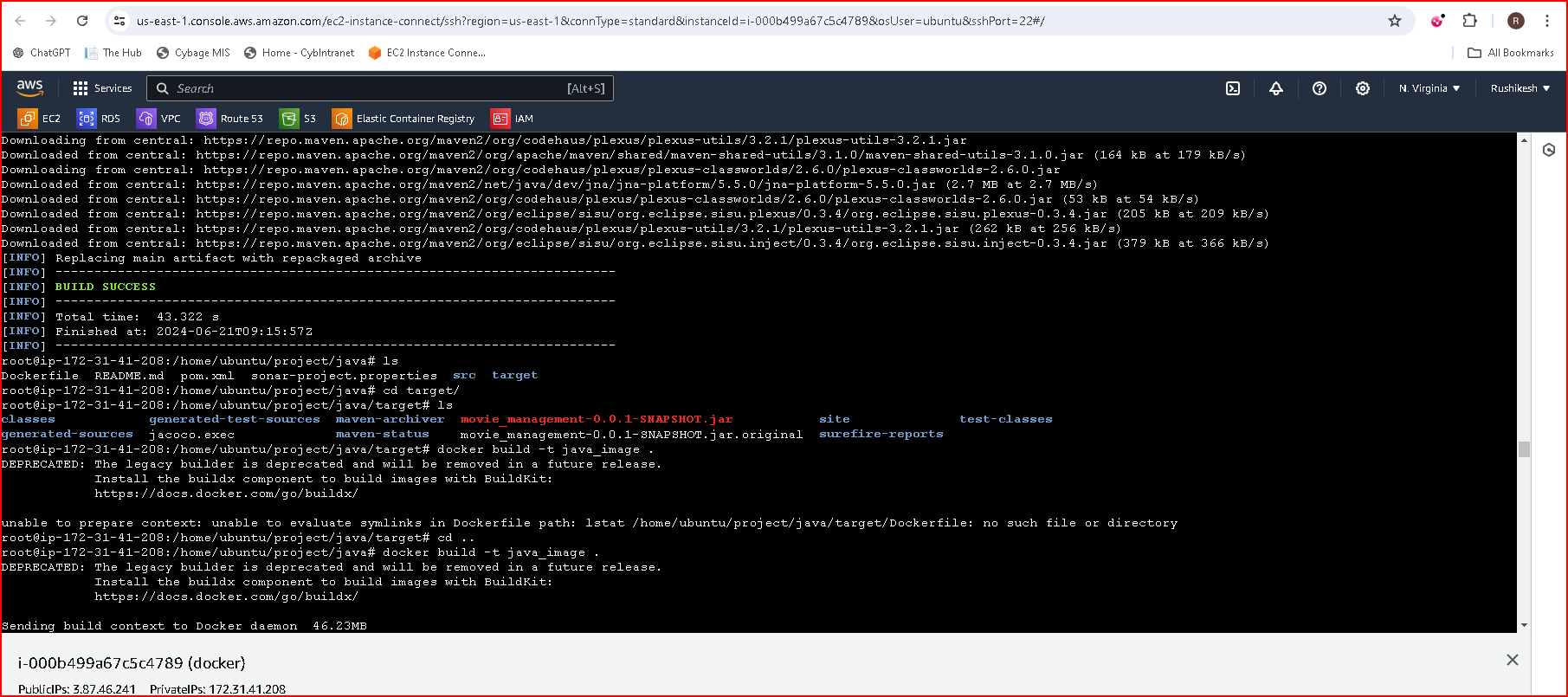
SSH into EC2 instance

Install Docker

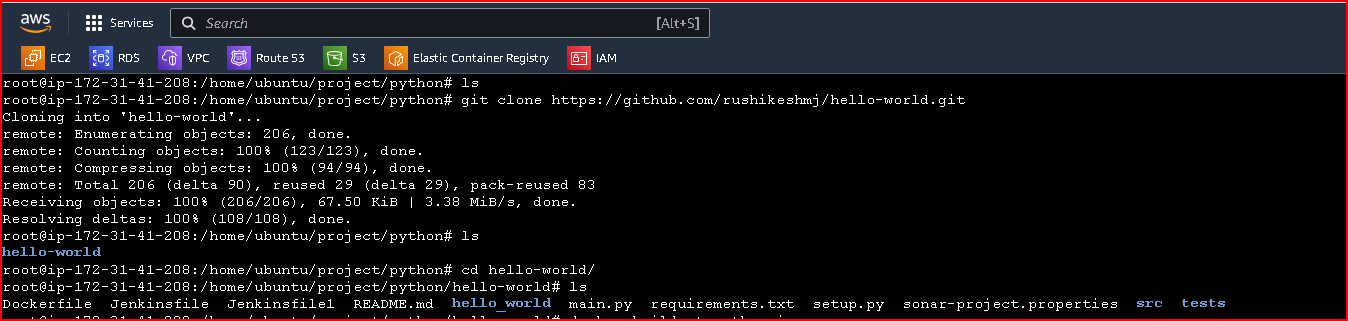
Add Ubuntu user docker

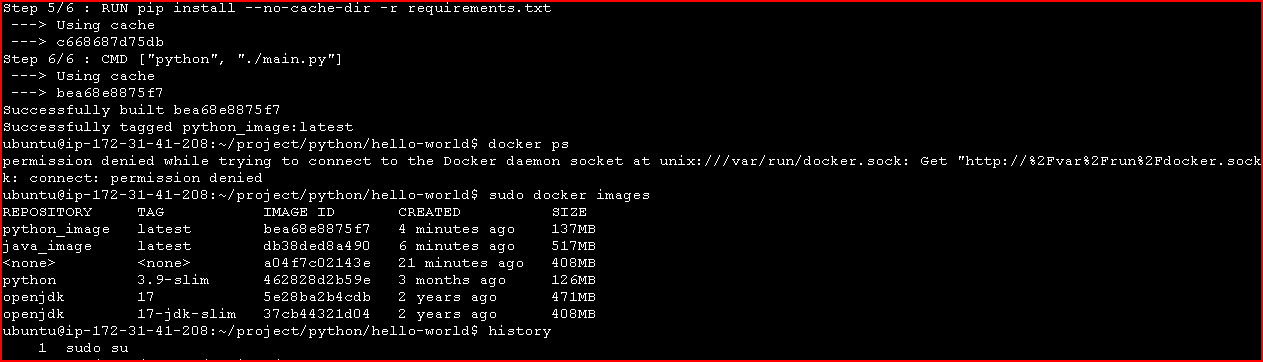
Install git

Install maven



1. **Write a docker file for Python**

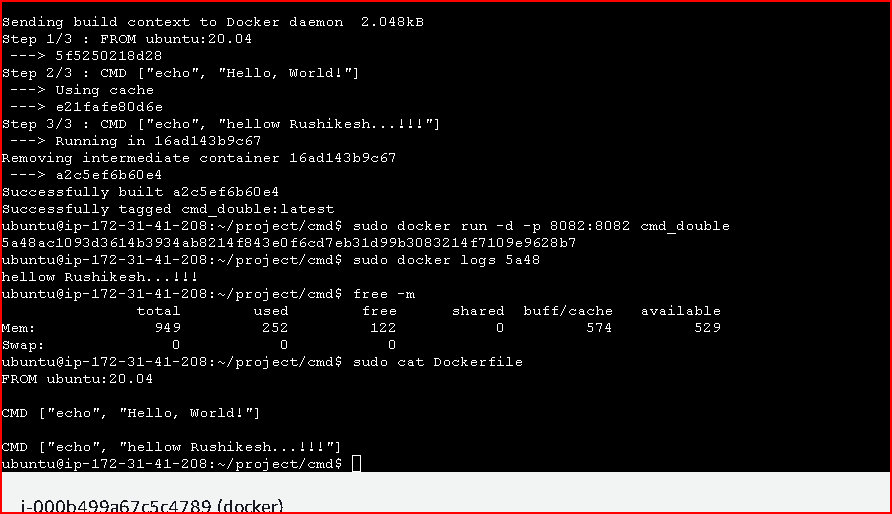


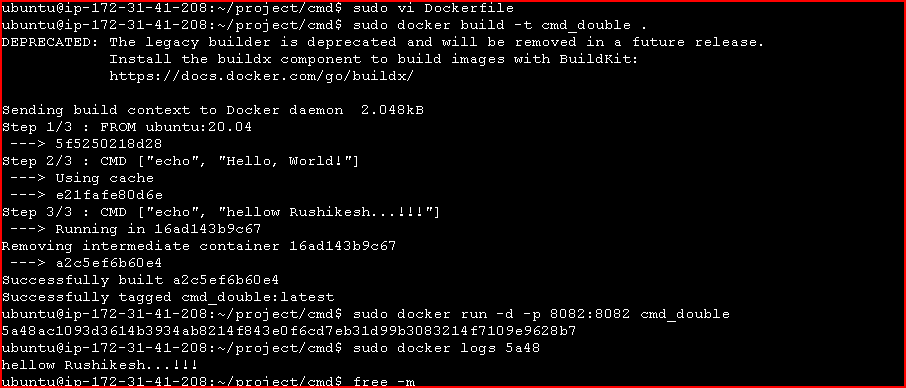


1. **How to override CMD command**





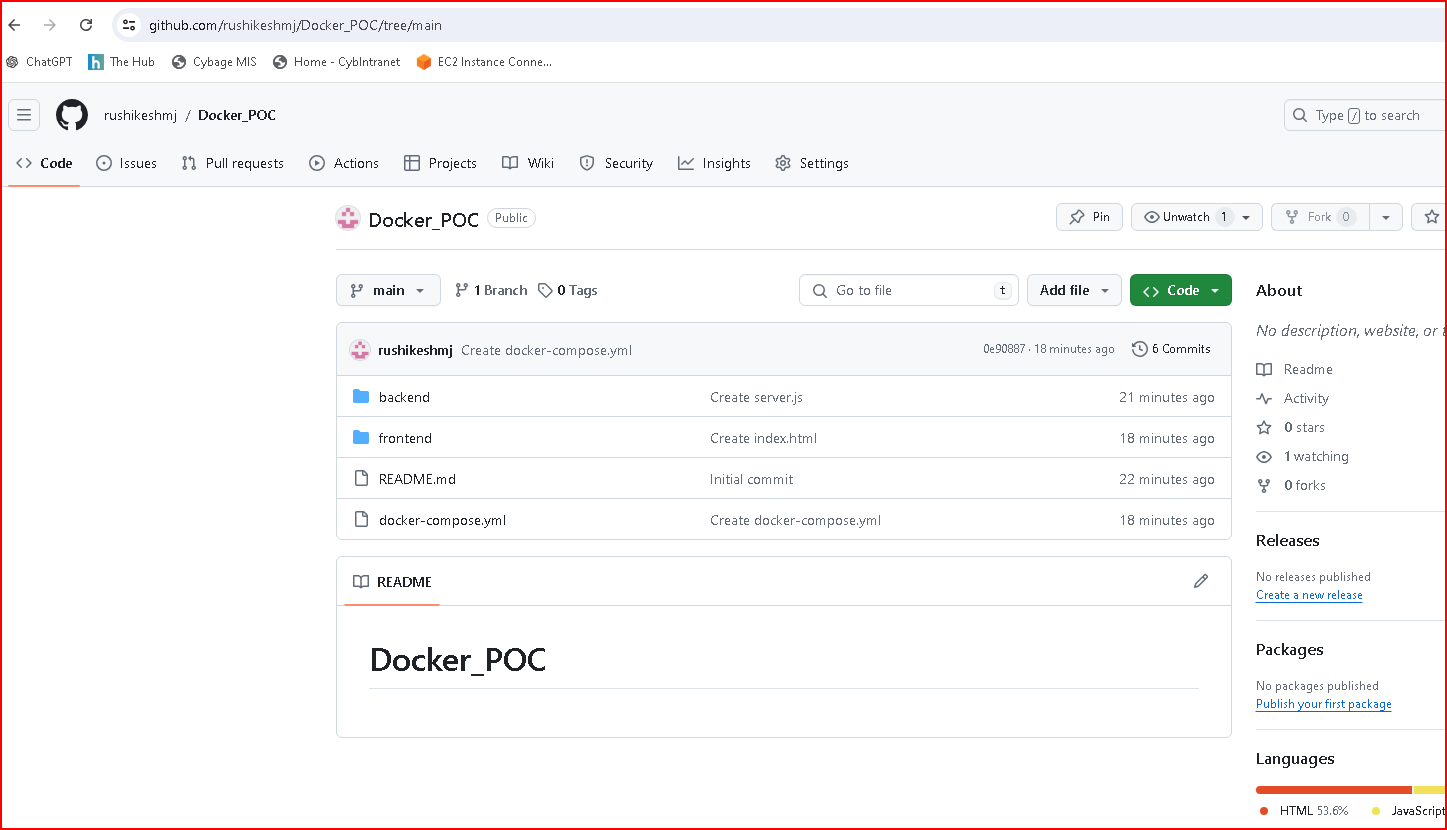




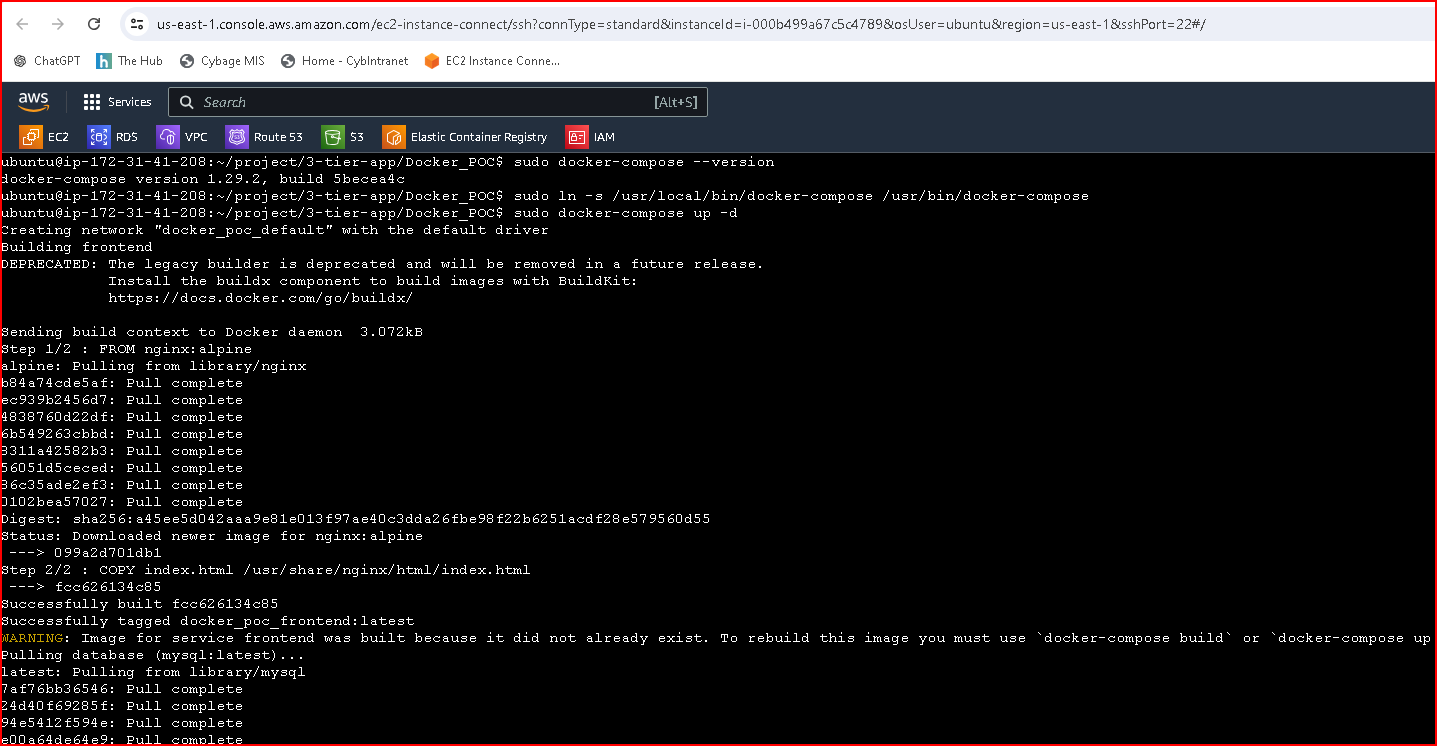
1. **Deploy 3 tier application in docker container expose frontend to internet on same machine**

For a 3-tier application (typically frontend, backend, and database), we can use Docker Compose to orchestrate the deployment

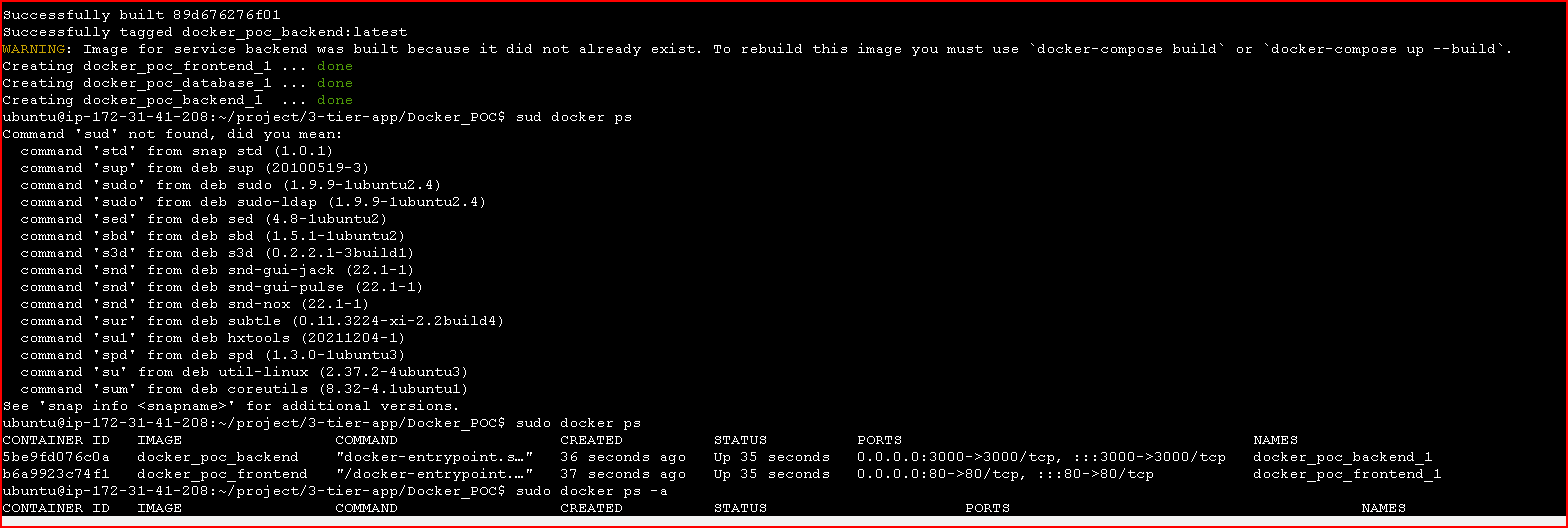
Install docker-compose



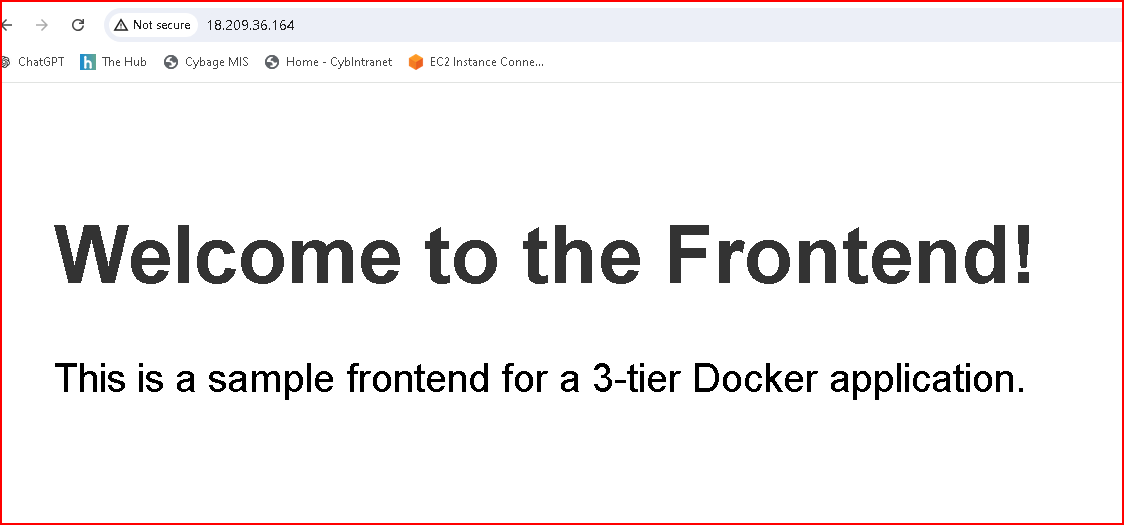
**Clone the project in new directory**



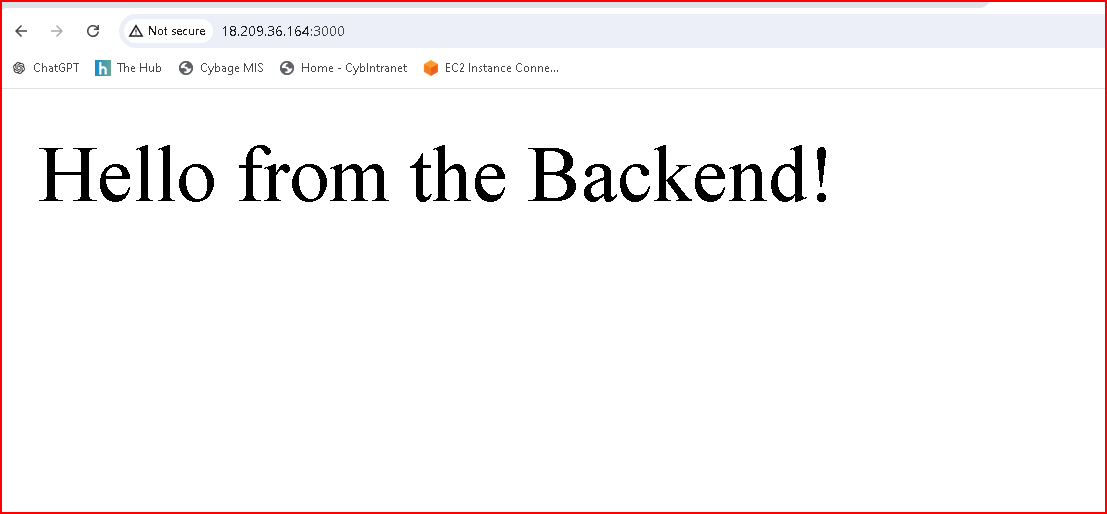
**sudo docker-compose up –d**



**Frontend**

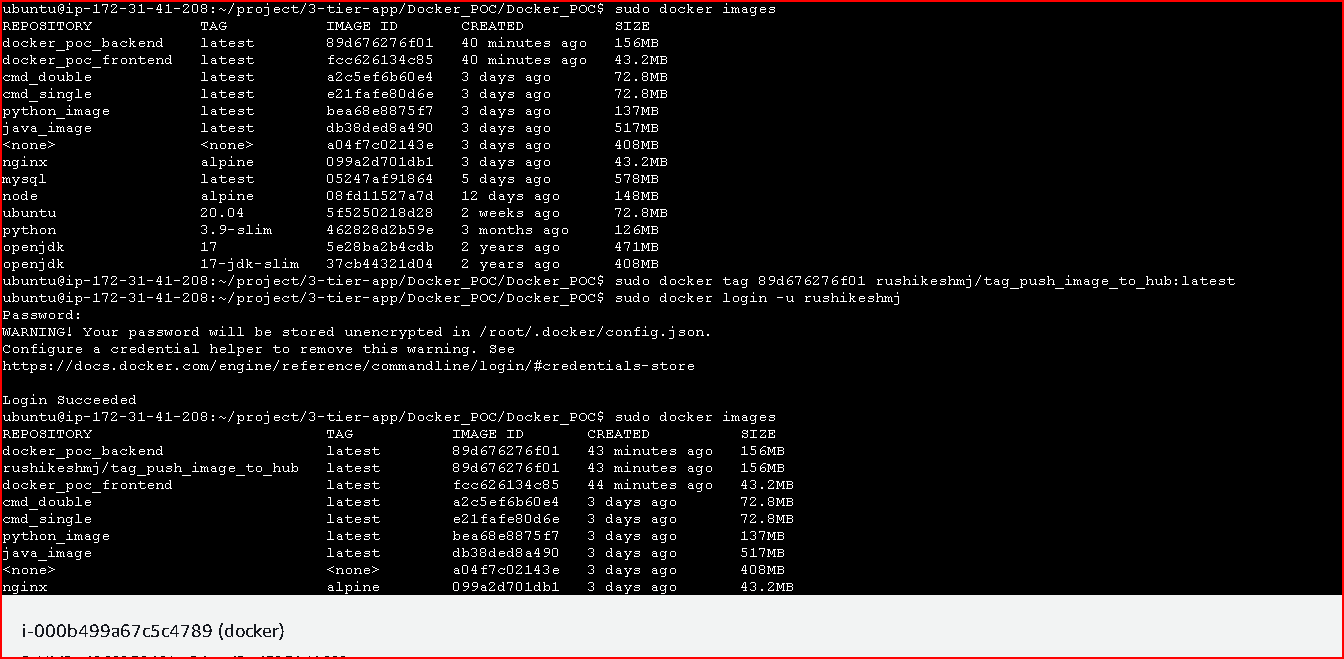


**Backend**

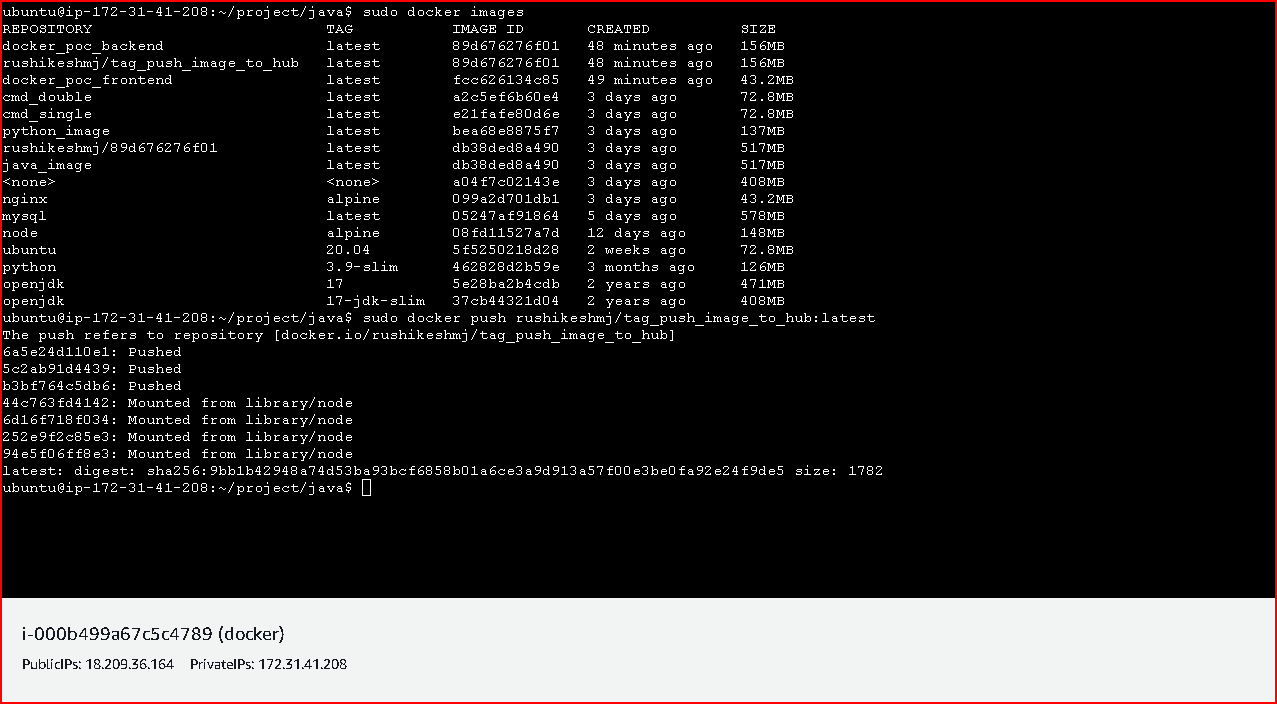


1. **Tag docker image and push it to dockerhub(private repo)**

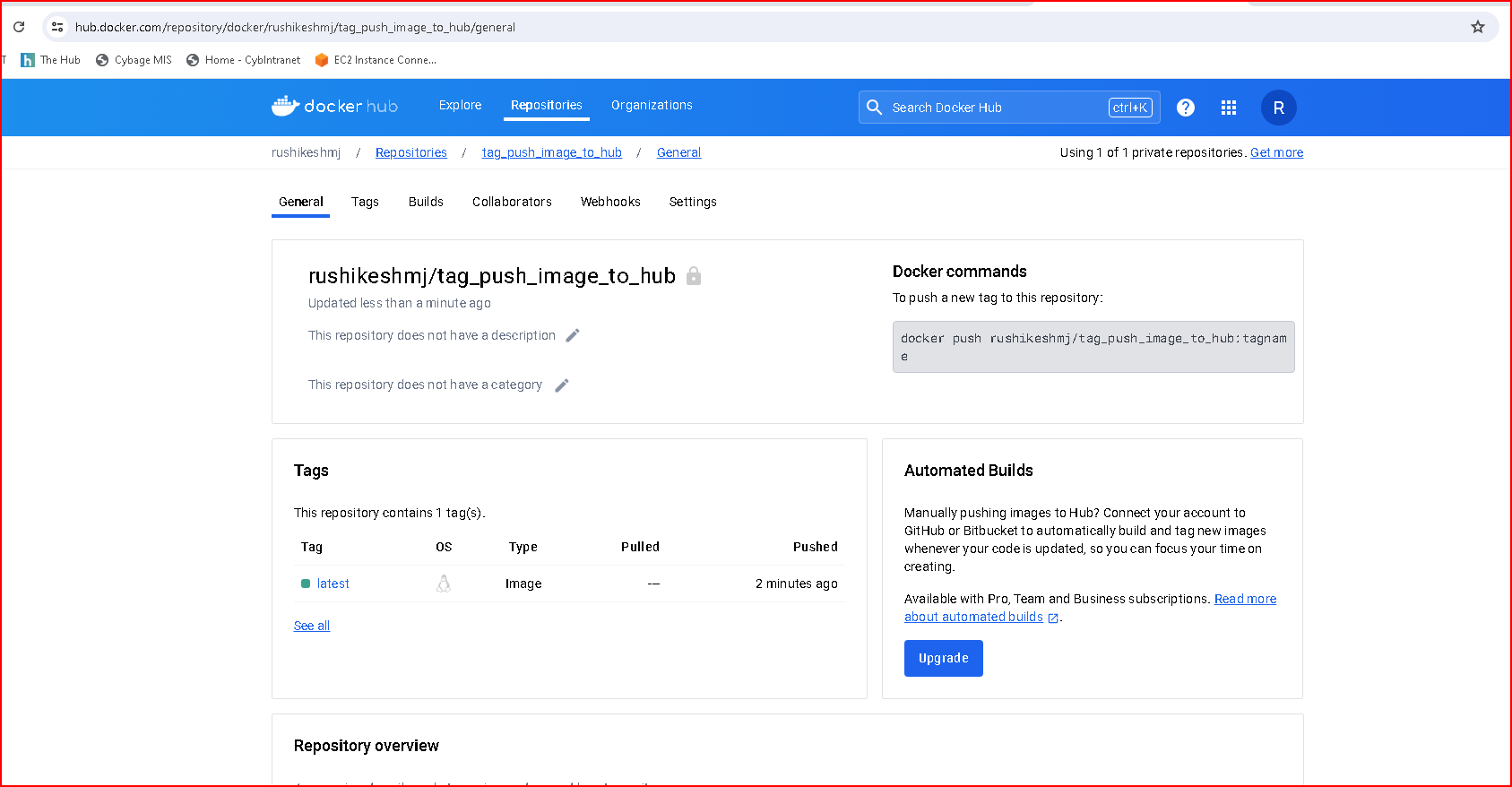
**Docker tag**



**Docker push**



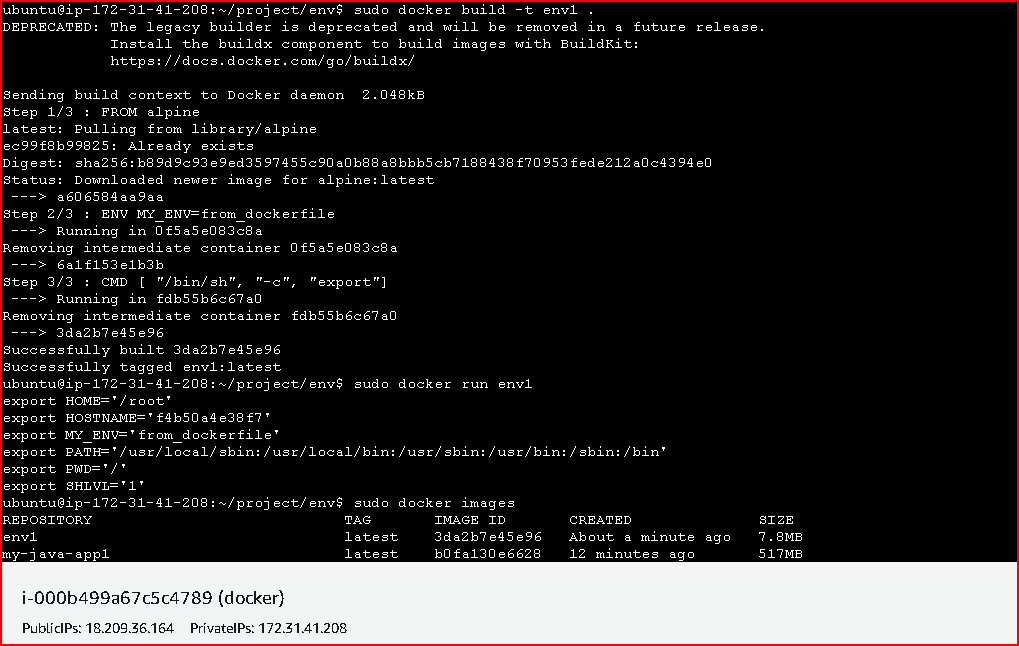
**Pushed into private registry**



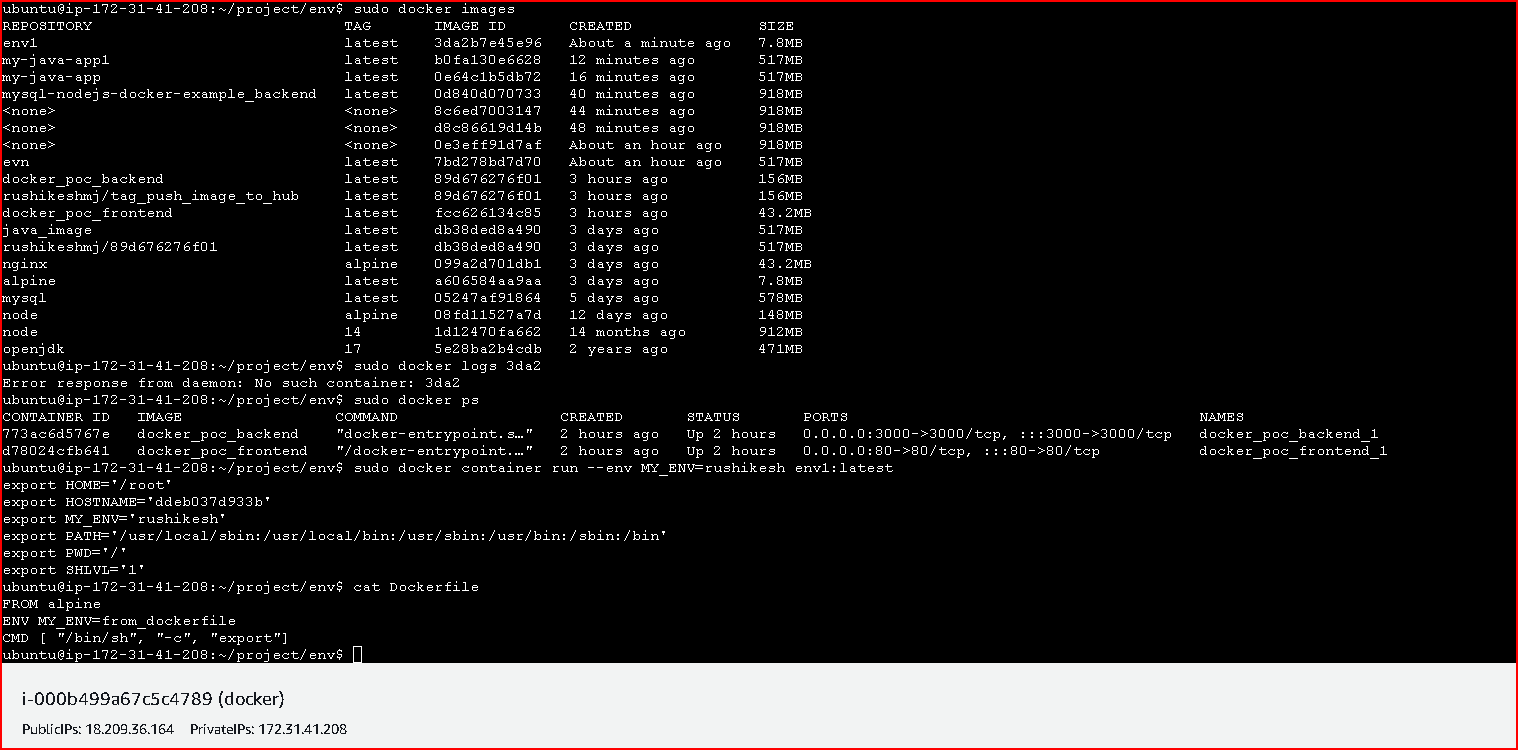
1. **Set env variable using dockerfile as well as command line**

**Set env variable using dockerfile**

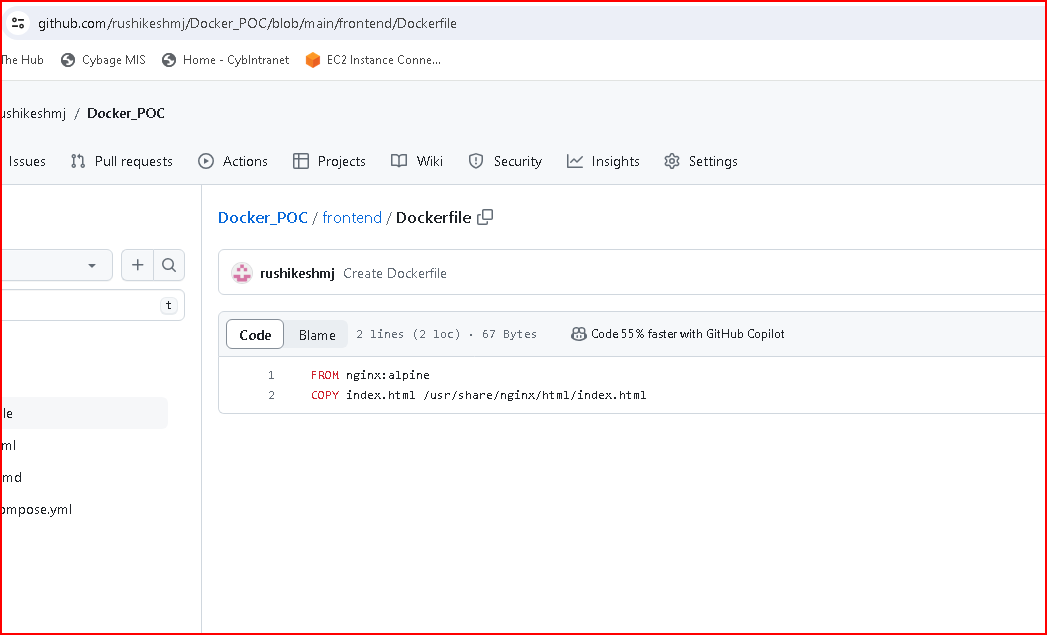




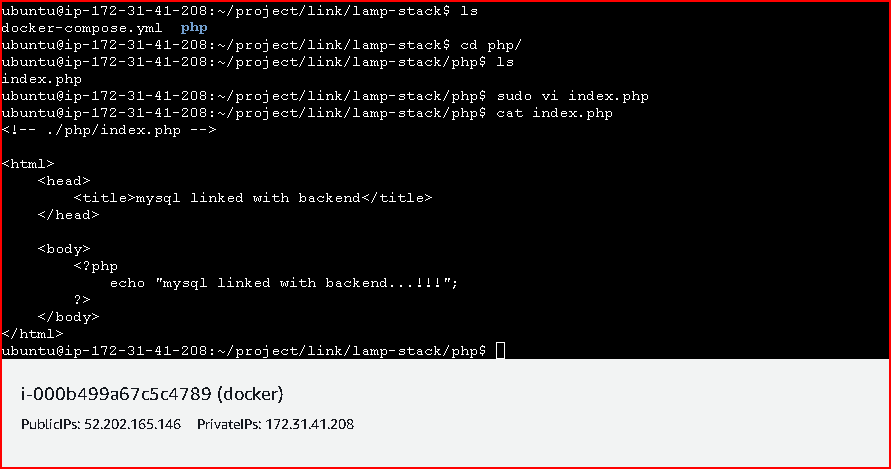
**Set env variable using From CLI**

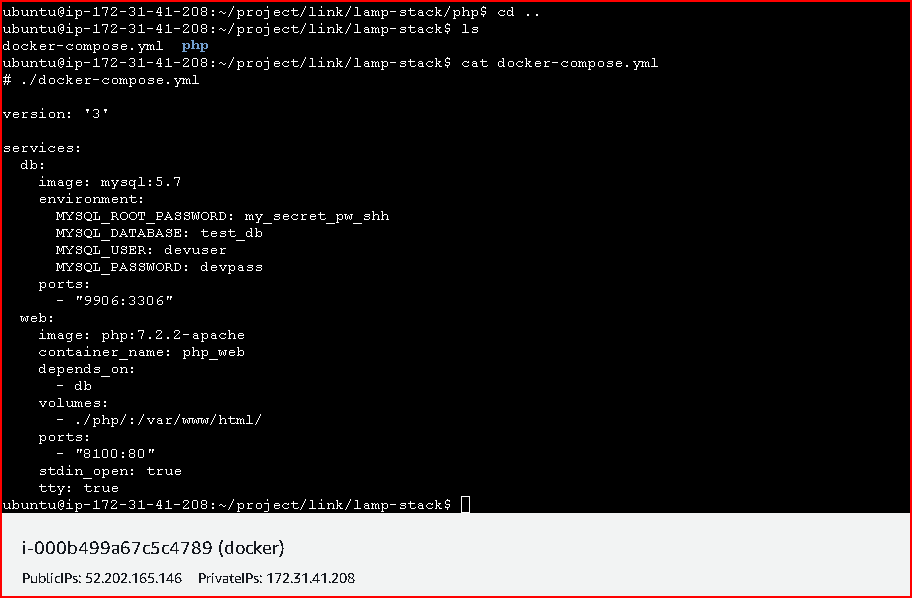


**Use NGNIX as load balancer in 3rd task**

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1. **Link mysql container with backend container**

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**sudo docker-compose up –d**

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