# Application Deployment

**Application:**

Clone the below mentioned repo and deploy the application. (Run the application in port 80
[HTTP])
Repo URL: hups://github.com/sriram-R-krishnan/devops-build

**Docker:**
Dockerize the application by creating a Dockerfile
Create a docker-compose file to use the above image

**Bash Scripting:**
Write 2 scripts
build.sh-for building docker images
deploy.sh-for deploying the image to server

**Version Control:**
Push the code to github to dev branch (use dockerignore & gitignore files)
Note: Use only CLI for related git commands

**Docker hub:**
Create 2 repos "dev" and "prod" to push images.
"Prod" repo must be private and "dev" repo can be public

**Jenkins:**
Install and configure jenkins build step as per needs to build, push & deploy the application.
Connect jenkins to the github repo with auto build trigger from both dev & master branch.
If code pushed to dev branch, docker image must build and pushed to dev repo in docker hub.

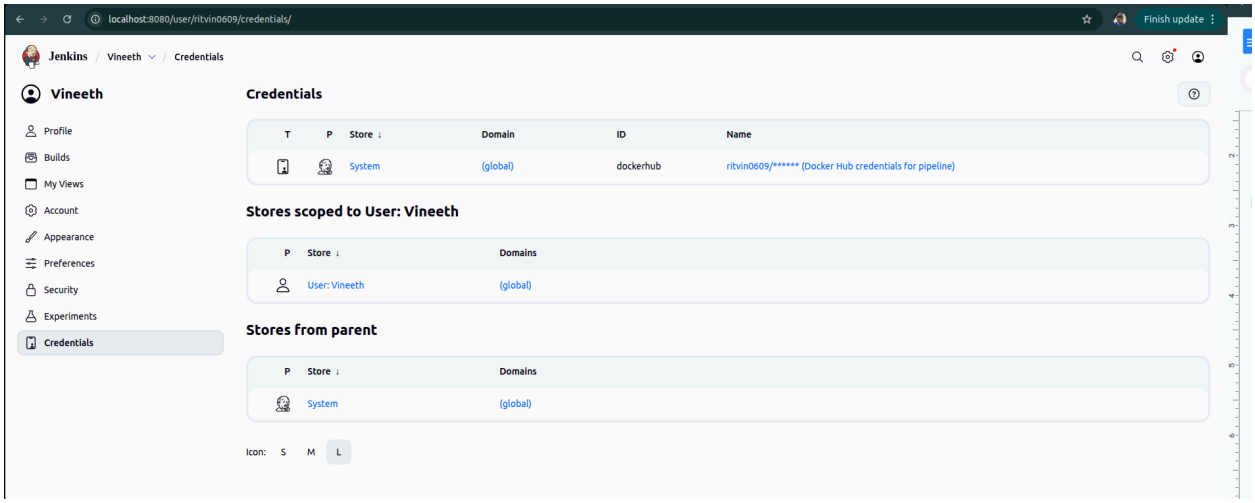
II dev merged to master, then docker image must be pushed to prod repo in docker hub.

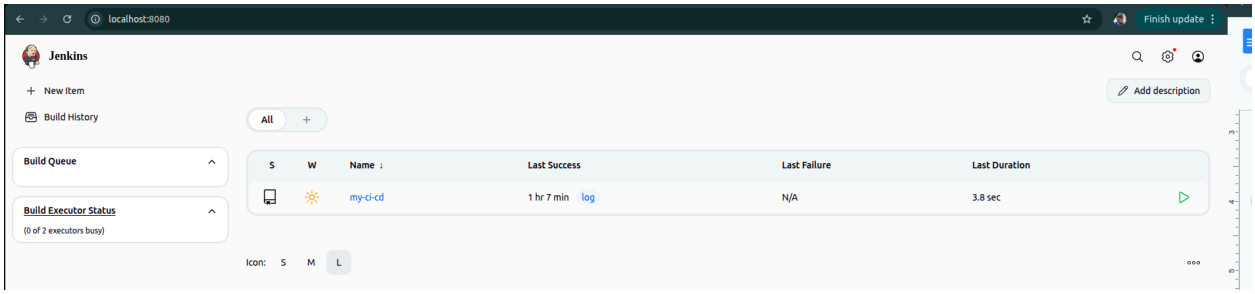
**AWS:**
Launch t2.micro instance and deploy the create application.
Configure SG as below:
Whoever has the ip address can access the application
Login to server can should be made only from your ip address

**Monitoring:**
Setup a monitoring system to check the health status of the application. (Open-source)
Sending notifications only if the application goes down is highly appreciable

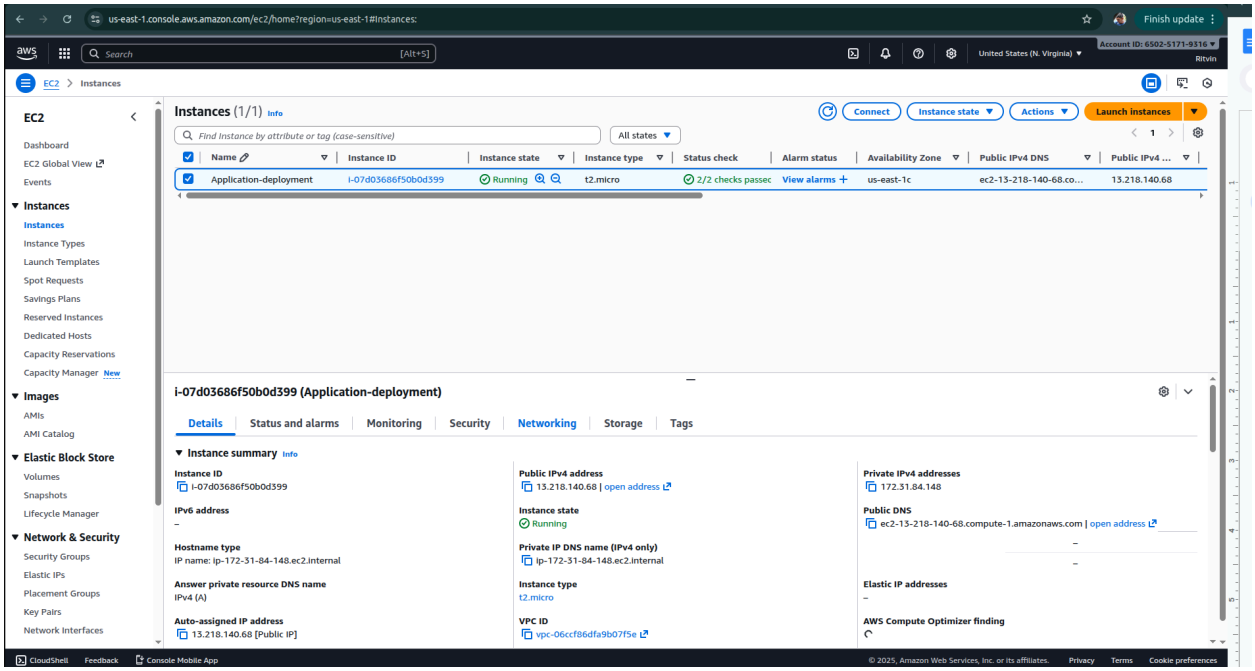
# Output Screenshots:

## Jenkins Login page:

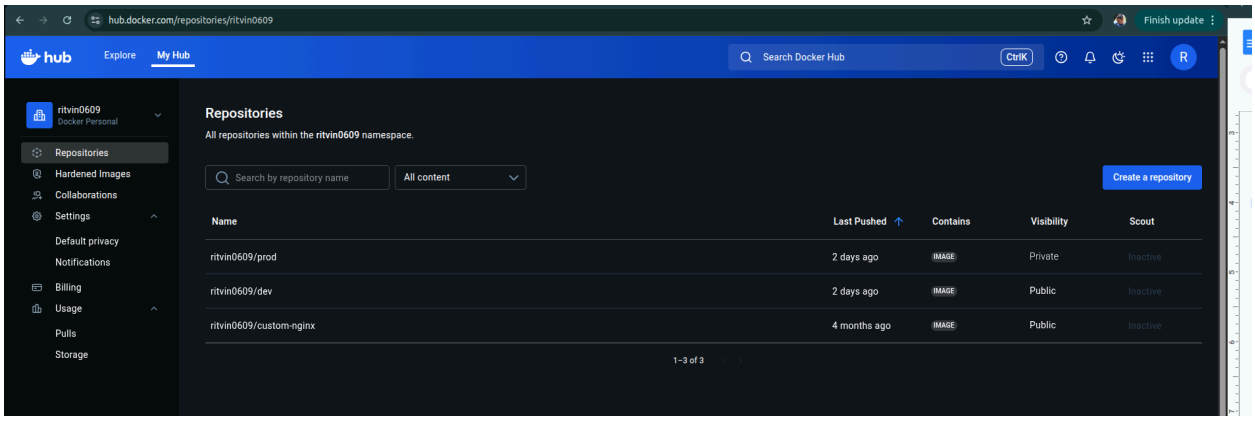





# AWS EC2 console:




# Docker Hub:



# Deployed site page: