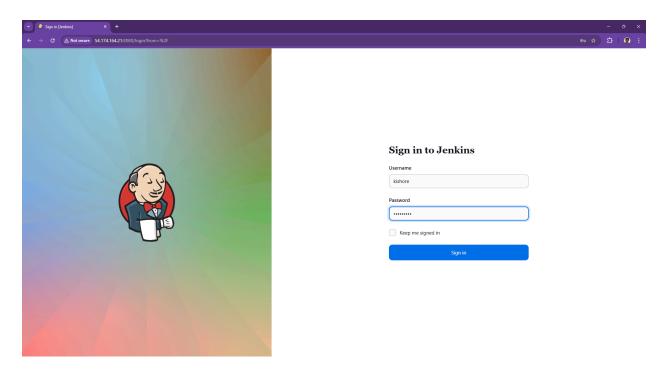
Github repository: https://github.com/kishorekannanc/devops-project.git

App-URL: http://54.174.164.21/

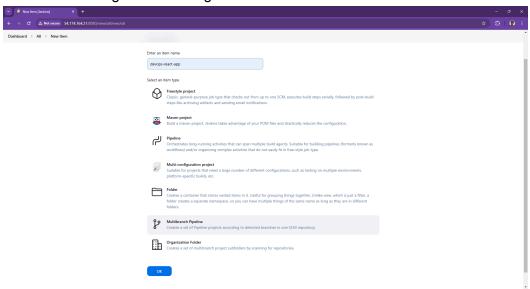
Docker images and container

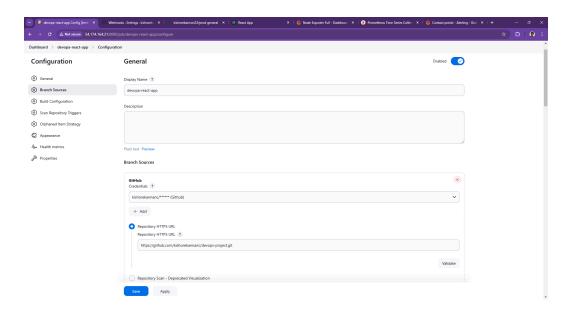
JENKINS

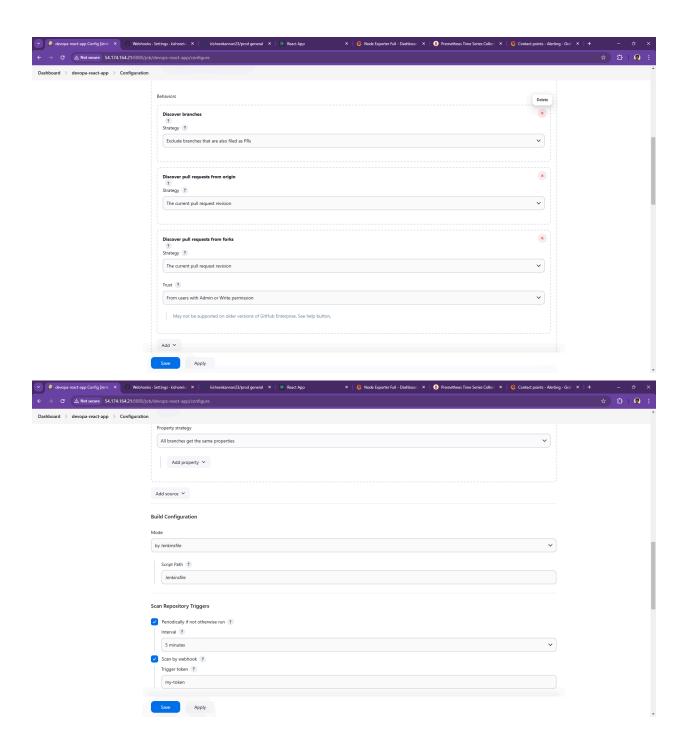
Login page:

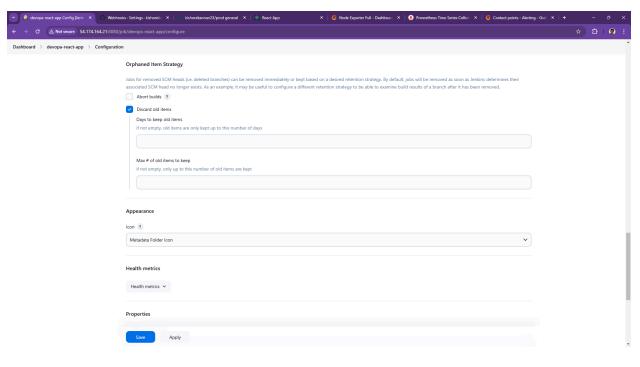


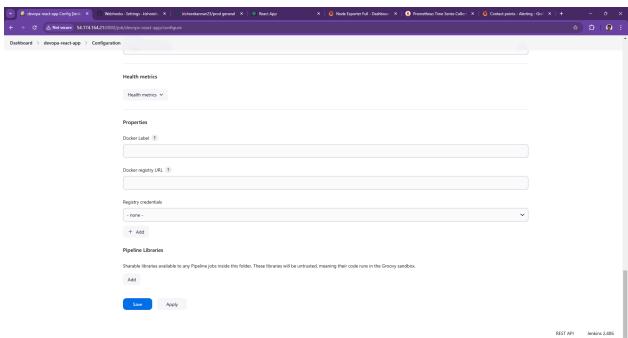
Multibranch configuration setting:



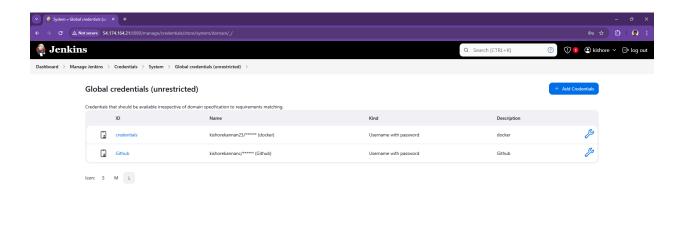






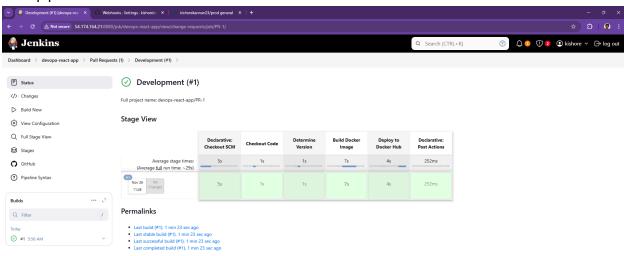


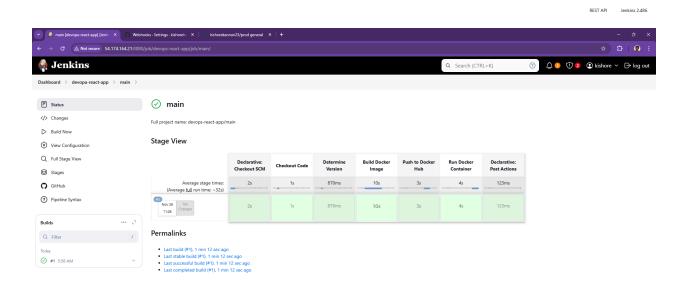
Credentials:

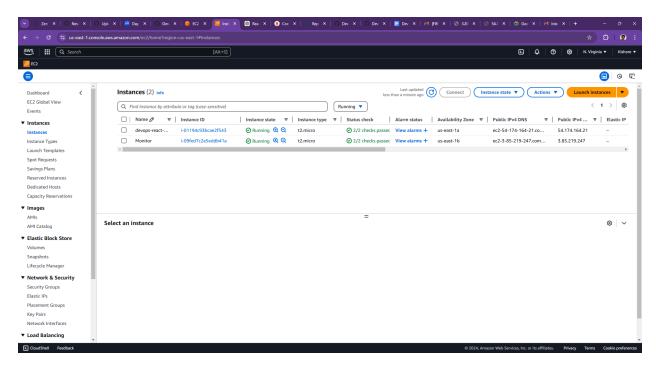


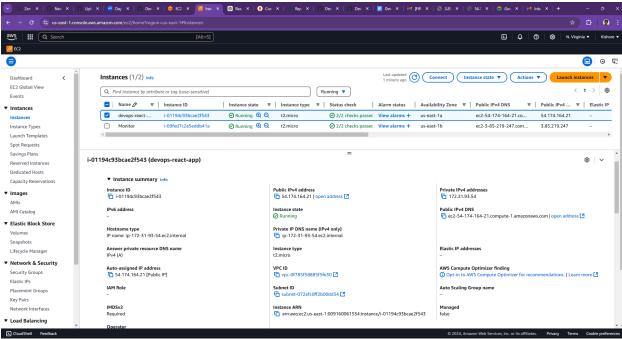
REST API Jenkins 2.486

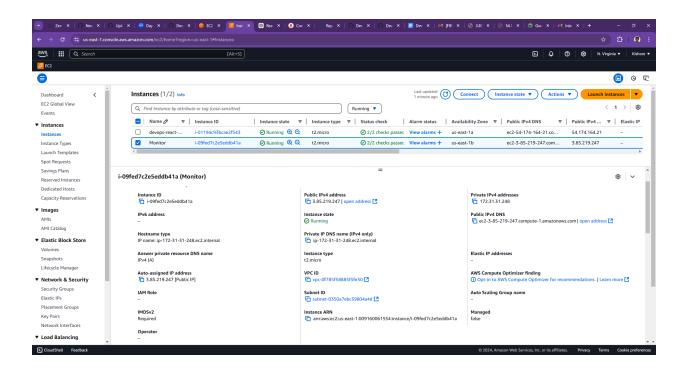
Build pipeline



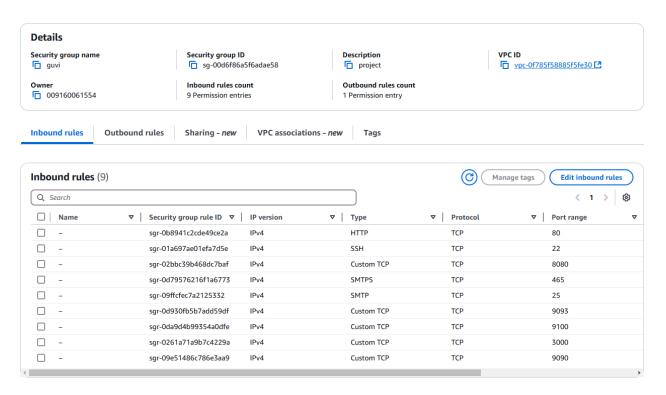




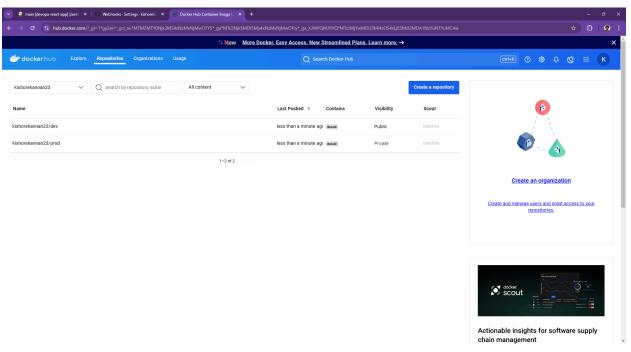




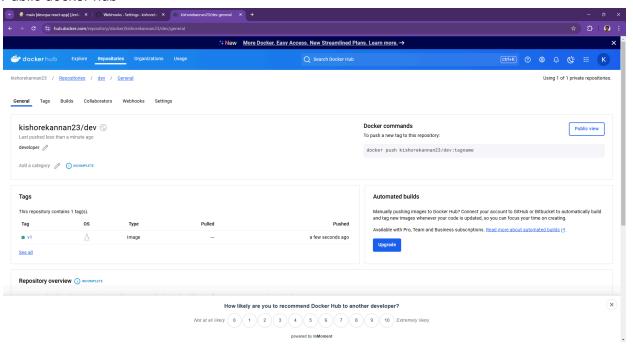
Security group:



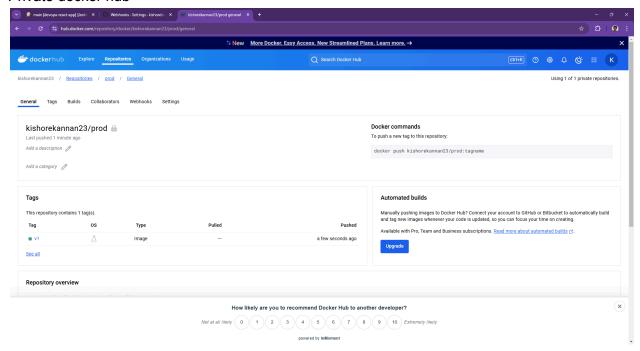
Docker hub images:



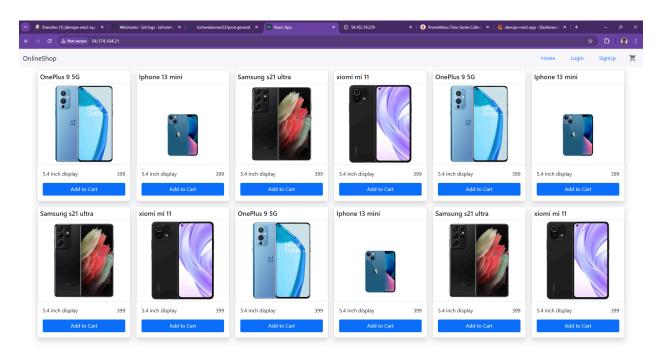
Public docker hub



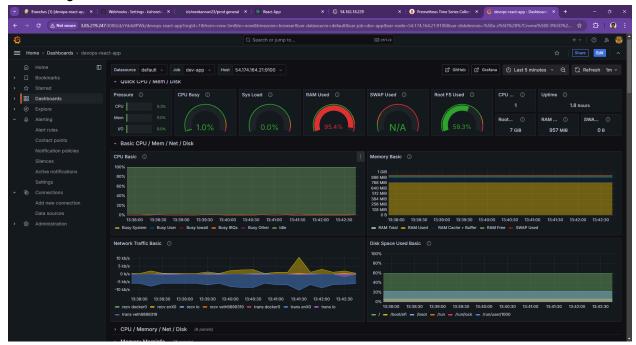
Private docker hub



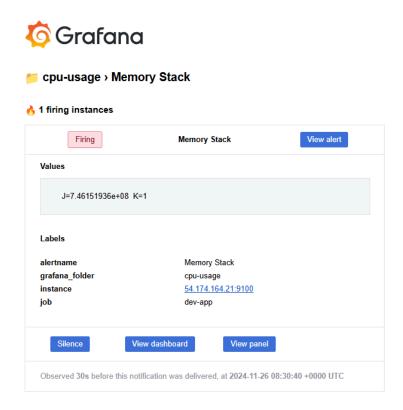
Site image:



Monitoring status



Email notification when they cross 80%



COMMANDS:

- 1.create a two instance one for monitoring and devops-app
- 2. In monitoring install prometheus and grafana ,in prometheus.yml file add the dev app ip and node and run the prometheus in the port of(monitoringIP:9090)
- 3. Install grafana and ans set smt congif in the grafana.in file and run the grafana
- 4. Open the grafana in web browser with monitoring-ip:3000
- 5.set dashboard and contact detail, alert detail ,save the all changes we done in dashboard.when is goes down below your threshold it will trigger the mail,

In devops-react-app instance

1. Install docker.docke-compose, jenkins , openjdk

Commands:

Docker compose

Sudo curl-L

"https://github.com/docker/compose/releases/latest/download/docker-compose-\$(uname -s)-\$(uname -m)" -o /usr/local/bin/docker-compose sudo chmod +x /usr/local/bin/docker-compose docker-compose --version

Openjdk:

sudo apt update sudo apt install fontconfig openjdk-17-jre java -version openjdk version "17.0.8" 2023-07-18 OpenJDK Runtime Environment (build 17.0.8+7-Debian-1deb12u1) OpenJDK 64-Bit Server VM (build 17.0.8+7-Debian-1deb12u1, mixed mode, sharing) sudo snap install openjdk

Jenkins:

sudo wget -O /usr/share/keyrings/jenkins-keyring.asc \
https://pkg.jenkins.io/debian/jenkins.io-2023.key
echo "deb [signed-by=/usr/share/keyrings/jenkins-keyring.asc]" \

https://pkg.jenkins.io/debian binary/ | sudo tee \
/etc/apt/sources.list.d/jenkins.list > /dev/null
sudo apt-get update
sudo apt-get install jenkins

Creating used and group
sudo usermod -aG docker ubuntu
sudo usermod -aG docker jenkins
newgrp docker

Start ,enable,restart the services

sudo systemctl start docker sudo systemctl enable docker sudo systemctl start jenkins sudo systemctl enable jenkins sudo systemctl restart jenkins

To view the jenkins password:

sudo cat /var/lib/jenkins/secrets/initialAdminPassword

Inside jenkins add essential plugs ins: docker,pipeline,github,multibranch

Webhook: enable the webhook with jenkins-url