**FINAL PROJECT**

**SOCIAL MEDIA ANALYTICS**

**Pipeline Script:**

pipeline {

agent any

tools {

jdk 'jdk17'

nodejs 'node20'

}

stages {

stage('Clean Workspace') {

steps {

script {

echo "Cleaning workspace..."

deleteDir() // Deletes everything in the Jenkins workspace before starting

}

}

}

stage('Git Checkout') {

steps {

script {

git branch: 'main',

credentialsId: 'github\_seccred',

url: 'https://github.com/Jothi1812/Social\_Media\_Analytics\_Docker.git'

}

}

}

stage('Install Dependencies & Build') {

steps {

script {

sh '''

cd SocialInsight

if [ -f package.json ]; then

echo "package.json found. Running npm install..."

npm install

npm run build

else

echo "ERROR: package.json is missing in task-manager. Skipping npm install."

exit 1

fi

'''

}

}

}

stage('Docker Build & Push') {

steps {

script {

withDockerRegistry(credentialsId: 'docker', toolName: 'docker') {

def imageName = "jothi1811/devops"

def tag = "latest"

sh """

cd SocialInsight

docker build -t ${imageName} .

docker tag ${imageName} ${imageName}:${tag}

docker push ${imageName}:${tag}

"""

}

}

}

}

stage('Deploy Docker Container') {

steps {

script {

def containerName = "social\_container"

def imageName = "jothi1811/devops:latest"

// Stop and remove the existing container if running

sh """

docker stop ${containerName} || true

docker rm ${containerName} || true

"""

// Run the new container on port 3002

sh """

docker run -d --name ${containerName} -p 5003:3000 ${imageName}

"""

}

}

}

}

}

**Dockerfile:**

# Use Node.js to build the Vite app

FROM node:20 AS builder

# Set working directory inside the container

WORKDIR /app

# Copy package.json and package-lock.json

COPY package.json package-lock.json ./

# Install dependencies

RUN npm install

# Copy the entire project into the container

COPY . .

# Build the React Vite project

RUN npm run build

# Use NGINX as the production web server

FROM nginx:latest

# Remove the default NGINX configuration

RUN rm -rf /etc/nginx/conf.d

# Copy custom NGINX configuration

COPY nginx.conf /etc/nginx/conf.d/default.conf

# Copy the built React Vite files to NGINX's web directory

COPY --from=builder /app/dist /usr/share/nginx/html

# Expose port 3000

EXPOSE 3000

# Start NGINX

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

**Jenkinsfile:**

pipeline {

agent any

tools {

jdk 'jdk17'

nodejs 'node20'

}

stages {

stage('Clean Workspace') {

steps {

script {

echo "Cleaning workspace..."

deleteDir() // Deletes everything in the Jenkins workspace before starting

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}

stage('Git Checkout') {

steps {

script {

git branch: 'main',

credentialsId: 'github\_secret',

url: 'https://github.com/Jothi1812/Social\_Media\_Analytics\_Docker.git'

}

}

}

stage('Install Dependencies & Build') {

steps {

script {

sh '''

cd SocialInsight

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npm install

npm run build

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exit 1

fi

'''

}

}

}

stage('Docker Build & Push') {

steps {

script {

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def imageName = "jothi1811/devops"

def tag = "latest"

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cd SocialInsight

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docker tag ${imageName} ${imageName}:${tag}

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"""

// Run the new container on port 3002

sh """

docker run -d --name ${containerName} -p 3002:3000 ${imageName}

"""

}

}

}

}

}

**COMMANDS:**

* 192 docker push jothi1811/devops:latest
* 193 docker logout
* 194 docker login
* 195 docker push jothi1811/devops:latest
* 196 docker start social\_container
* 197 docker logs social\_container
* 198 docker run -d --name social\_container -p 5003:80 jothi1811/devops
* 199 docker stop social\_container
* 200 docker rm social\_container
* 201 docker run -d --name social\_container -p 5003:80 jothi1811/devops











