

## APPLICATION DEPLOYMENT:

Git repo url: <https://github.com/santoanandj/capstone-project-1.git>

DEPLOY SERVER IP: <http://3.110.182.16/>

### Docker:

vi Dockerfile

```
FROM node:16.13.1 As build
WORKDIR /usr/app
COPY . /usr/app
RUN npm install
RUN npm run build

FROM nginx:latest
COPY --from=build /usr/app/build /usr/share/nginx/html
~
```

vi docker-compose.yml

```
version: "3.8"
services:
  reactdemoapp:
    image: react:v1
    container_name: react_app
    restart: always
    ports:
      - "80:80"
~
```

### Bash scripting:

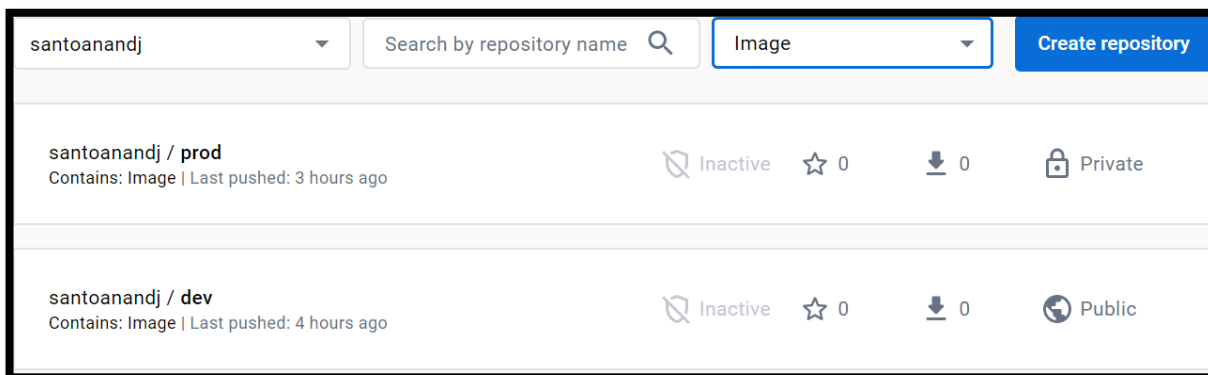
build.sh

```
#!/bin/bash
#docker build
docker build -t react:v1 .
docker-compose down || true
#docker-compose up
docker-compose up -d
~
~
~
```

## deploy.sh

```
#!/bin/bash
ls -l
mkdir react
mv -f * react
tar -cvzf react.tar.gz react
scp -o StrictHostKeyChecking=no -i $key react.tar.gz ubuntu@3.110.182.16:/home/ubuntu
ssh -T -o StrictHostKeyChecking=no -i $key ubuntu@3.110.182.16<<EOF
cd /home/ubuntu
rm -rf react || true
sudo docker system prune -y
tar -xvzf react.tar.gz
#deploy on which git branch commit had happen
if [[ $GIT_BRANCH == origin/dev ]]
then
    cd react
    chmod +x build.sh
    ./build.sh
    docker login --username=$docker_username --password=$docker_password
    echo $docker_password | docker login -u $docker_username --password-stdin
    docker image tag react:v1 santoanandj/dev:v1
    docker image push santoanandj/dev:v1
elif [[ $GIT_BRANCH == origin/main ]]
then
    cd react
    chmod +x build.sh
    ./build.sh
    docker login --username=$docker_username --password=$docker_password
    echo $docker_password | docker login -u $docker_username --password-stdin
    docker image tag react:v1 santoanandj/prod:v1
    docker image push santoanandj/prod:v1
else
    echo "deployment is failure"
fi
```

## Dockerhub:



The screenshot shows the Docker Hub interface for the repository 'santoanandj'. At the top, there is a search bar with 'santoanandj' entered, a 'Search by repository name' button, a dropdown menu set to 'Image', and a 'Create repository' button. Below this, two repository entries are listed:

- santoanandj / prod**: Contains: Image | Last pushed: 3 hours ago. Status: Inactive, 0 stars, 0 downloads, Private.
- santoanandj / dev**: Contains: Image | Last pushed: 4 hours ago. Status: Inactive, 0 stars, 0 downloads, Public.

## Jenkins:

```
version: "3.8"
services:
  jenkins:
    image: jenkins/jenkins:lts
    container_name: jenkins
    ports:
      - "8080:8080"
```

vi docker-compose.yml

```
vi docker-compose.yml
docker-compose up -d
docker exec -it jenkins bash
cat /var/jenkins_home/secrets/initialAdminPassword
```

## Getting Started

# Unlock Jenkins

To ensure Jenkins is securely set up by the administrator, a password has been written to the log ([not sure where to find it?](#)) and this file on the server:

`/var/jenkins_home/secrets/initialAdminPassword`

Please copy the password from either location and paste it below.

Administrator password


Continue







## Getting Started


# Getting Started

Folders	OWASP Markup Formatter	Build Timeout	Credentials Binding	<b>**</b> JavaBeans Activation Framework (JAF) API <b>**</b> JavaMail API <b>**</b> bouncycastle API
Timestampers	Workspace Cleanup	Ant	Gradle	
Pipeline	GitHub Branch Source	Pipeline: GitHub Groovy Libraries	Pipeline: Stage View	
Git	SSH Build Agents	<input type="radio"/> Matrix Authorization Strategy	PAM Authentication	
LDAP	Email Extension	Mailer		
				<b>**</b> - required dependency


Jenkins 2.387.1


**Jenkins**


Search (CTRL+K)       log out


Dashboard 


+ New Item


 People

 Build History

 Project Relationship

 Check File Fingerprint

 Manage Jenkins

 My Views

All

+

S


W


Name

Last Success

Last Failure

Last Duration






capstone\_project\_1

3 hr 28 min #24

4 hr 30 min #16

3 min 48 sec 


Icon: 


S


M

L

Icon legend

 Atom feed for all

 Atom feed for failures

 Atom feed for just latest builds

Build Queue


▼


No builds in the queue.

Build Executor Status


▼

1 Idle

Repositories 

Repository URL 

https://github.com/santoanandj/capstone-project-1.git


Credentials 


- none -

+ Add


Advanced...

Add Repository

Branches to build 

Branch Specifier (blank for 'any') 

\*/main

Branch Specifier (blank for 'any') 

\*/dev

≡ Username and password (separated) ?

Username Variable ?  
docker\_username

Password Variable ?  
docker\_password

Credentials ?  
☒ Specific credentials ☐ Parameter expression  
santoanandj/\*\*\*\*\*  

+ Add

Build Steps

≡ Execute shell ?

Command  
See [the list of available environment variables](#)

ls -l  
echo "commit from \$GIT\_BRANCH"  
chmod +x deploy.sh  
./deploy.sh

## AWS:

DEPLOY SERVER IP: <http://3.110.182.16/>

SECURITY GROUP:

Inbound rules

Outbound rules

Tags

You can now check network connectivity with Reachability Analyzer

Run Reachability Analyzer

Inbound rules (1/1)

Manage tags

Edit inbound rules

Filter security group rules

< 1 >

<div><input checked="" type="checkbox"/></div>	Name	Security group rule...	IP version	Type	Protocol	Port range
<div><input checked="" type="checkbox"/></div>	-	sgr-0c75274eee1b09d...	IPv4	All traffic	All	All

You can now check network connectivity with Reachability Analyzer Run Reachability Analyzer ×

**Outbound rules (1/1)** ↻ Manage tags Edit outbound rules

<input checked="" type="checkbox"/>	Name	Security group rule...	IP version	Type	Protocol	Port range
<input checked="" type="checkbox"/>	-	sgr-07f8b3f200e8379ec	IPv4	SSH	TCP	22

**MONITORING:**  
**Cloud watch:**

CloudWatch

Overview [info](#)

1h **3h** 12h 1d 1w Cus

Overview ▼ Filter by resource group ▼ [info](#)

**Alarms by AWS service** [info](#)

Services ■ In alarm 0 ■ Insufficient data 0 ■ OK 1

EC2  [info](#) (1)

**Recent alarms** [info](#)

react app ⋮ ✓

Count

500 StatusCheckFailed\_Instance > ...

250

0

08:10 11:05

**Route 53: Health check:**

Health checks > e43d863f-1ea5-4293-b16c-266556f9b232

Delete health check Edit health check

Info Monitoring Alarms Tags Health checkers Latency

ID e43d863f-1ea5-4293-b16c-266556f9b232

URL http://3.110.182.16:80/

Specify endpoint by IP address

Protocol HTTP [i](#)

Host name -

IP address 3.110.182.16 [i](#)

Port 80 [i](#)

Path - [i](#)

**Advanced configuration**

Request interval 30 seconds [i](#)

Failure threshold 3 [i](#)

Search string - [i](#)

Latency graphs No [i](#)

Invert health check status No [i](#)

Disable health check No [i](#)

Health checker regions Using recommended health check regions: [i](#)

- US East (N. Virginia)
- US West (N. California)
- US West (Oregon)
- EU (Ireland)
- Asia Pacific (Singapore)
- Asia Pacific (Sydney)

