**Steps to Deploy a React App Using Jenkins**

1. Create new React app and push it into GitHub
2. Jenkins Configuration:

Manage Jenkins 🡪 Tools

JDK Installation 🡪

Name: JAVA\_HOME,

JAVA\_HOME: C:\Program Files\Java\jdk-21

Maven installations 🡪

Name: MAVEN\_HOME

MAVEN\_HOME: C:\Program Files\Apache Software Foundation\apache-maven-3.9.11

NodeJS installations 🡪

Name: NODE\_HOME

NODE\_HOME: C:\Program Files\Nodejs

🡪Save

1. Jenkins Plugin

Manage Jenkins 🡪 Plugins

install [Deploy to container Plugin](https://plugins.jenkins.io/deploy)

install nodejs

1. Create a New Job:

New Item 🡪 Enter an item name: calc (Same as base:value given in vite.config.js) 🡪 Freestyle Project 🡪 OK

Description: \_\_\_\_\_\_\_\_\_\_\_\_

Source Code Management 🡪 Git 🡪 Repository URL: \_\_\_\_\_\_\_\_\_\_

Branches to build 🡪 \*/main

Additional Behaviours 🡪 Check out to a sub-directory 🡪 Local subdirectory for repo: frontend

Triggers 🡪 Poll SCM 🡪 Schedule: \* \* \* \* \*

Environment 🡪 Delete workspace before build starts

🡪 Provide Node & npm bin/ folder to PATH 🡪 NodeJS Installation: NODE\_HOME

Build Steps 🡪 Add Build step 🡪 Execute Windows batch command

Command: cd frontend

npm install

Add Build step 🡪 Execute Windows batch command

Command: cd frontend

npm run build

Add Build step 🡪 Execute Windows batch command

Command: set WAR\_DIR=frontend\dist

mkdir %WAR\_DIR%\META-INF

mkdir %WAR\_DIR%\WEB-INF

jar -cvf frontend\mycalc.war -C %WAR\_DIR% .

dir frontend\\*.war

Post-build Actions 🡪 Add Post build Action 🡪 Deploy war/ear to a container

WAR/EAR files: \*\*/\*.war

Context path: calc-frontend

Containers 🡪 Add Container 🡪 Tomcat 9.x Remote

Credentials: admin/\*\*\*\*\*

Tomcat URL: <http://localhost:8080/>

Save

Note: Open Front End Project 🡪 api.js

Change the BASEURL in api.js file

(BASEURL is your Back End project running URL, like http://localhost:8080/cicd-backend/)