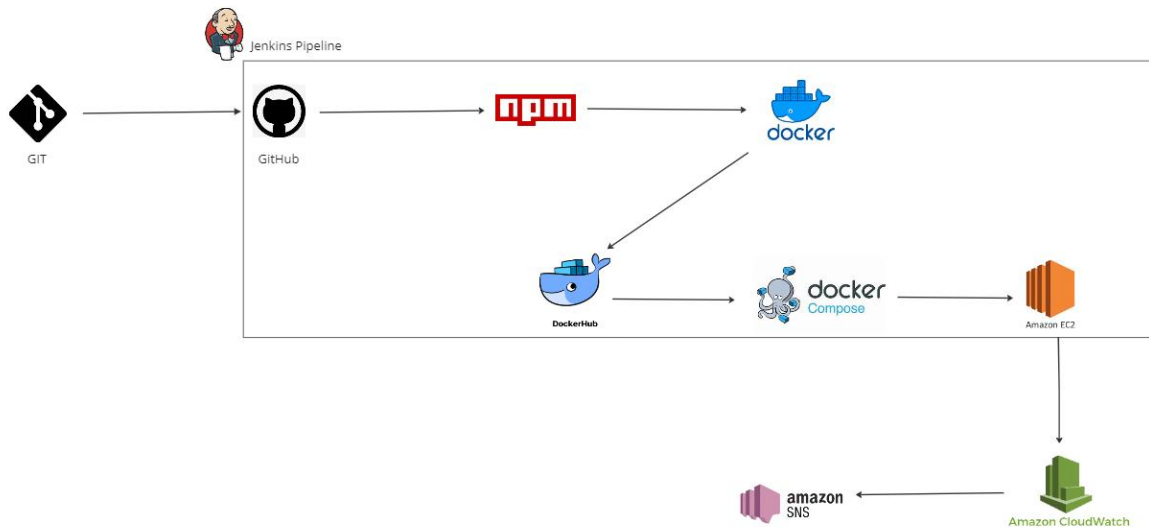


Building a React.js Jenkins Pipeline for Dockerized Deployment and Monitoring



From Code to Container Deployment

Git Code Push and Jenkins Job Trigger :

The journey begins with developers pushing their React.js code to a Git repository hosted on GitHub. Upon code push, a Jenkins job is automatically triggered, thanks to the integration between Jenkins and Git. This ensures seamless integration between code changes and the CI/CD pipeline.

Docker Image Build and Push :

Within the Jenkins pipeline, the first step is building the Docker image from a Dockerfile. Depending on the branch, different Docker images are built. For the dev branch, the image is pushed to the dev-repo-react repository on DockerHub, while for the master branch, the image is pushed to the prod-repo-react repository. This separation ensures proper segregation between development and production environments.

Docker Image Tag update on docker-compose :

Once the Docker images are available on DockerHub, the Jenkins pipeline proceeds to update the Docker image tag on the docker-compose.yml file. This file defines the container configuration, including environment variables, port mapping, and container dependencies. Running the container ensures the application is up and accessible.

Local Image Cleanup :

To free up disk space and maintain a clean development environment, the Jenkins pipeline includes a step to remove the built Docker images from the local machine. This helps prevent clutter and minimizes storage usage.

Post-Build Actions: Deploying Docker Containers on React.JS Web Application(EC2 Instance) Server :

In the post-build actions section of the Jenkins pipeline, an SSH connection is established to another EC2 instance server. The Docker image is built and a container is launched on this server using the SSH connection. This enables seamless deployment of the application to a separate environment or server.

Monitoring with CloudWatch and Prometheus :

To ensure the application's health and performance, monitoring tools like CloudWatch and Prometheus come into play. The deployed EC2 instance is monitored using CloudWatch, which provides metrics for CPU utilization, system failures, and more. Prometheus is also configured to collect and analyze metrics from the running Docker containers. This allows for in-depth monitoring and analysis of the application's performance.

Email Notifications for System Failure or CPU Utilization :

As part of the monitoring setup, email notifications are configured to alert the team in case of system failures or high CPU utilization using Amazon SNS. This helps ensure prompt attention to critical issues and enables proactive troubleshooting.

Conclusion:

By implementing this React.js Jenkins pipeline, we have established a robust CI/CD process that automates code builds, Docker image creation, deployment, and monitoring. Integrating Git, Jenkins, Docker, and monitoring tools like CloudWatch and Prometheus streamlines the development and deployment workflow, ensuring faster time to market and improved application quality.

In the project directory, you can run:

Screenshots :

Source Code cloned to Git ➡

```
$ git clone https://github.com/rvsp/reactjs-demo.git
```

```
$ git status $ git add . $ git commit -m "initial commit"
```

```
$ git remote add reactapp-gh-repo https://github.com/Sivaprakash-pk/Reactjs_Project.git
```

```
$ git push -f reactapp-gh-repo maste
```

The screenshot displays a GitHub repository named 'rvsp / reactjs-demo' (Public). The repository page shows the 'Code' tab selected, with a dropdown menu open for cloning the repository. The dropdown menu includes options for 'Local' and 'Codespaces'. Under 'Local', there are options for 'Clone' (using HTTPS, SSH, or GitHub CLI), 'Open with GitHub Desktop', and 'Download ZIP'. The repository's file structure is visible, showing folders 'public' and 'src', and files '.gitignore', 'README.md', 'package-lock.json', and 'package.json'. Below the repository page, a Windows File Explorer window is open, showing the local file system path 'This PC > Local Disk (C:) > Works > Capstone Project - React js > reactjs-demo'. The file explorer shows the same file structure as the GitHub repository: '.git', 'public', 'src', '.gitignore', 'package', 'package-lock', and 'README'. A terminal window is also open, showing the command 'git clone https://github.com/rvsp/reactjs-demo.git' being executed, followed by 'cd reactjs-demo/' and 'ls', which lists the files in the directory.

```
MINGW64/c:/Works/Capstone Project - React js/reactjs-demo
Siva@DESKTOP-QE0FD0T MINGW64 /c:/Works/Capstone Project - React js
$ git clone https://github.com/rvsp/reactjs-demo.git
Cloning into 'reactjs-demo'...
remote: Enumerating objects: 40, done.
remote: Counting objects: 100% (4/4), done.
remote: Compressing objects: 100% (2/2), done.
remote: Total 40 (delta 2), reused 2 (delta 2), pack-reused 36
Receiving objects: 100% (40/40), 175.93 KiB | 1.81 MiB/s, done.
Resolving deltas: 100% (11/11), done.
Siva@DESKTOP-QE0FD0T MINGW64 /c:/Works/Capstone Project - React js
$ cd reactjs-demo/
Siva@DESKTOP-QE0FD0T MINGW64 /c:/Works/Capstone Project - React js/reactjs-demo (master)
$ ls
README.md package-lock.json package.json public/ src/
Siva@DESKTOP-QE0FD0T MINGW64 /c:/Works/Capstone Project - React js/reactjs-demo (master)
$ |
```

```
git clone https://github.com/rvsp/reactjs-demo.git
```

```
$ git status
On branch master
Your branch is up to date with 'origin/master'.

Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git restore <file>..." to discard changes in working directory)
        modified:   .gitignore

Untracked files:
  (use "git add <file>..." to include in what will be committed)
        .dockerignore
        Dockerfile
        build.sh
        deploy.sh
        docker-compose.yml
        nginx.conf

no changes added to commit (use "git add" and/or "git commit -a")
```

```
$ git status
$ git add .
$ git status
On branch master
Your branch is up to date with 'origin/master'.

Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        new file:   .dockerignore
        modified:   .gitignore
        new file:   Dockerfile
        new file:   build.sh
        new file:   deploy.sh
        new file:   docker-compose.yml
        new file:   nginx.conf
```

```
$ git commit -m "initial commit"
$ git commit -m "initial commit"
[master 5e69a87] initial commit
7 files changed, 154 insertions(+), 1 deletion(-)
create mode 100644 .dockerignore
create mode 100644 Dockerfile
create mode 100644 build.sh
create mode 100644 deploy.sh
create mode 100644 docker-compose.yml
create mode 100644 nginx.conf
```

```
$ git remote add reactapp-gh-repo https://github.com/Sivaprakash-pk/React-
js_Project.git
```

Jenkins IP - 3.85.9.236

Install JAVA

```
$ sudo apt update
```

```
$ sudo apt install openjdk-11-jre -y
```

```
$ java -version
```

openjdk version "11.0.12" 2021-07-20

OpenJDK Runtime Environment (build 11.0.12+7-post-Debian-2)

OpenJDK 64-Bit Server VM (build 11.0.12+7-post-Debian-2, mixed mode, sharing)

```
root@ip-10-10-2-190:/home/ubuntu# java -version
openjdk version "11.0.18" 2023-01-17
OpenJDK Runtime Environment (build 11.0.18+10-post-Ubuntu-0ubuntu122.04)
OpenJDK 64-Bit Server VM (build 11.0.18+10-post-Ubuntu-0ubuntu122.04, mixed mode, sharing)
```

```
$ curl -fsSL https://pkg.jenkins.io/debian-stable/jenkins.io-2023.key | sudo tee \
```

```
/usr/share/keyrings/jenkins-keyring.asc > /dev/null
```

```
$ echo deb [signed-by=/usr/share/keyrings/jenkins-keyring.asc] \
```

```
https://pkg.jenkins.io/debian-stable binary/ | sudo tee \
```

```
/etc/apt/sources.list.d/jenkins.list > /dev/null
```

```
$ sudo apt-get update
```

```
$ sudo apt-get install jenkins -y
```

```
ubuntu@ip-10-10-2-190:~$ sudo cat /var/lib/jenkins/secrets/initialAdminPassword
ff8d0219829940eb9266ff67dd206455
```

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/lib/jenkins/secrets/initialAdminPassword
```

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

Administrator password



Continue



Customize Jenkins

Plugins extend Jenkins with additional features to support many different needs.

Install suggested plugins

Install plugins the Jenkins community finds most useful.

Select plugins to install

Select and install plugins most suitable for your needs.



Create First Admin User

Username

siva

Password

.....

Confirm password

.....

Full name

Sivaprakash S

E-mail address

s.sivaprakashdgl@gmail.com

Instance Configuration

Jenkins URL:

The Jenkins URL is used to provide the root URL for absolute links to various Jenkins resources. That means this value is required for proper operation of many Jenkins features including email notifications, PR status updates, and the `BUILD_URL` environment variable provided to build steps.

The proposed default value shown is **not saved yet** and is generated from the current request, if possible. The best practice is to set this value to the URL that users are expected to use. This will avoid confusion when sharing or viewing links.

- Updates
- Available plugins
- Installed plugins
- Advanced settings
- Download progress

Plugins

Search available plugins

Install	Name	Released
<input checked="" type="checkbox"/>	Maven Integration 3.21 Build Tools This plugin provides a deep integration between Jenkins and Maven. It adds support for automatic triggers between projects depending on SNAPSHOTS as well as the automated configuration of various Jenkins publishers such as Junit.	1 mo 25 days ago
<input checked="" type="checkbox"/>	Publish Over SSH 1.24 Artifact Uploaders Build Tools Send build artifacts over SSH	1 yr 2 mo ago
<input checked="" type="checkbox"/>	NodeJS 1.6.0 npm NodeJS Plugin executes NodeJS script as a build step.	2 mo 21 days ago
<input checked="" type="checkbox"/>	Build Pipeline 1.5.8 User Interface Build Tools Other Post-Build Actions This plugin renders upstream and downstream connected jobs that typically form a build pipeline. In addition, it offers the ability to define manual triggers for jobs that require intervention prior to execution, e.g. an approval process outside of Jenkins. <div>Warning: This plugin version may not be safe to use. Please review the following security notices:<ul style="list-style-type: none">Stored XSS vulnerability</div>	5 yr 4 mo ago

[Install without restart](#)[Download now and install after restart](#)

Update information obtained: 4 hr 14 min ago

[Check now](#)

Search available plugins

<input checked="" type="checkbox"/>	Delivery Pipeline 1.4.2 User Interface This plugin visualize Delivery Pipelines (Jobs with upstream/downstream dependencies)	3 yr 1 mo ago
<input checked="" type="checkbox"/>	Dashboard for Blue Ocean 1.27.3 External Site/Tool Integrations User Interface Blue Ocean Dashboard	1 mo 9 days ago
<input checked="" type="checkbox"/>	Dashboard View 2.472.v9f72a_e6a_c529 User Interface Customizable dashboard that can present various views of job information.	2 mo 26 days ago
<input type="checkbox"/>	Oracle Java SE Development Kit Installer 66.vd8fa_64ee9fb_d Allows the Oracle Java SE Development Kit (JDK) to be installed via download from Oracle's website.	5 days 17 hr ago
<input type="checkbox"/>	Command Agent Launcher 90.v669d7ccb_7c31 Agent Management Allows agents to be launched using a specified command.	7 mo 10 days ago
<input type="checkbox"/>	JSch dependency 0.1.55.61.va_e9ee26616e7 Library plugins (for use by other plugins) Miscellaneous Jenkins plugin that brings the JSch library as a plugin dependency, and provides an SSHAuthenticatorFactory for using JSch with the ssh-credentials plugin.	8 mo 25 days ago
<input type="checkbox"/>	JavaScript GUI Lib: ACE Editor bundle 1.1 JavaScript GUI Lib: ACE Editor bundle plugin. <div>This plugin is deprecated. In general, this means that it is either obsolete, no longer being developed, or may no longer work. Learn more.</div>	7 yr 1 mo ago

[Install without restart](#)[Download now and install after restart](#)













Update information obtained: 4 hr 14 min ago

[Check now](#)

Dashboard > Manage Jenkins > Plugin Manager

- Updates
- Available plugins
- Installed plugins
- Advanced settings
- Download progress

Download progress

Preparation		<ul style="list-style-type: none">Checking internet connectivityChecking update center connectivitySuccess
Ionicons API		Success
Folders		Success
JavaBeans Activation Framework (JAF) API		Success
JavaMail API		Success
bouncycastle API		Success
Instance Identity		Success
Mina SSHD API :: Common		Success
Mina SSHD API :: Core		Success
SSH server		Success
OWASP Markup Formatter		Success
Structs		Success
Token Macro		Success
Build Timeout		Success
Pipeline: Step API		Success
Credentials		Success
Plain Credentials		Success
Trilead API		Success
SSH Credentials		Success
Credentials Binding		Success
SCM API		Success
Pipeline: API		Success
commons-lang3 v3.x Jenkins API		Success

Dashboard > Manage Jenkins > Plugin Manager

PAM Authentication		Success
LDAP		Success
Email Extension		Success
Mailer		Success
Loading plugin extensions		Success
Javadoc		Downloaded Successfully. Will be activated during the next boot
JSch dependency		Downloaded Successfully. Will be activated during the next boot
Maven Integration		Downloaded Successfully. Will be activated during the next boot
Oracle Java SE Development Kit Installer		Downloaded Successfully. Will be activated during the next boot
Command Agent Launcher		Downloaded Successfully. Will be activated during the next boot
Infrastructure plugin for Publish Over X		Downloaded Successfully. Will be activated during the next boot
Publish Over SSH		Downloaded Successfully. Will be activated during the next boot
Config File Provider		Downloaded Successfully. Will be activated during the next boot
NodeJS		Downloaded Successfully. Will be activated during the next boot
Parameterized Trigger		Downloaded Successfully. Will be activated during the next boot
jQuery		Downloaded Successfully. Will be activated during the next boot
Build Pipeline		Downloaded Successfully. Will be activated during the next boot
Delivery Pipeline		Downloaded Successfully. Will be activated during the next boot
Design Language		Downloaded Successfully. Will be activated during the next boot
Blue Ocean Core JS		Downloaded Successfully. Will be activated during the next boot
Common API for Blue Ocean		Downloaded Successfully. Will be activated during the next boot
REST API for Blue Ocean		Downloaded Successfully. Will be activated during the next boot
Web for Blue Ocean		Downloaded Successfully. Will be activated during the next boot
Dashboard for Blue Ocean		Downloaded Successfully. Will be activated during the next boot
Dashboard View		Downloaded Successfully. Will be activated during the next boot

→ [Go back to the top page](#)
(you can start using the installed plugins right away!)

→ ☐ Restart Jenkins when installation is complete and no jobs are running

JDK

JDK installations

List of JDK installations on this system

Add JDK

Git installations

Git

Name

Git

Path to Git executable ?

/usr/bin/git

☐ Install automatically ?

Add Git

Gradle

Gradle installations

Save Apply

- GitHub Apps
- OAuth Apps
- Personal access tokens
- Fine-grained tokens
- Tokens (classic)

New personal access token (classic)

Personal access tokens (classic) function like ordinary OAuth access tokens. They can be used instead of a password for Git over HTTPS, or can be used to authenticate to the API over Basic Authentication.

Note
Jenkins trigger build1

What's this token for?

Expiration *
30 days The token will expire on Thu, May 25 2023

Select scopes
Scopes define the access for personal tokens. Read more about OAuth scopes.

<input checked="" type="checkbox"/> repo	Full control of private repositories
<input type="checkbox"/> repo:status	Access commit status
<input type="checkbox"/> repo:deployment	Access deployment status
<input type="checkbox"/> public_repo	Access public repositories
<input type="checkbox"/> repo:invite	Access repository invitations
<input type="checkbox"/> security_events	Read and write security events
<input checked="" type="checkbox"/> workflow	Update GitHub Action workflows
<input checked="" type="checkbox"/> write:packages	Upload packages to GitHub Package Registry
<input type="checkbox"/> read:packages	Download packages from GitHub Package Registry
<input checked="" type="checkbox"/> delete:packages	Delete packages from GitHub Package Registry
<input checked="" type="checkbox"/> admin:org	Full control of orgs and teams, read and write org projects
<input type="checkbox"/> write:org	Read and write org and team membership, read and write org projects
<input type="checkbox"/> read:org	Read org and team membership, read org projects
<input type="checkbox"/> manage:subscribers	Manage repository subscribers

Search or jump to...

[Pull requests](#)[Issues](#)[Codespaces](#)[Marketplace](#)[Explore](#)

Some of the scopes you've selected are included in other scopes. Only the minimum set of necessary scopes has been saved.

Settings / Developer settings

GitHub Apps

OAuth Apps

Personal access tokens

Fine-grained tokens

Tokens (classic)

Personal access tokens (classic)

Generate new tokenRevoke all

Tokens you have generated that can be used to access the GitHub API

Make sure to copy your personal access token now. You won't be able to see it again!

ghp_vT6sQ5qfrRf9mPisNffMFtna3EnDD63aBIvVwDelete

Personal access tokens (classic) function like ordinary OAuth access tokens. They can be used instead of a password for Git over HTTPS, or can be used to authenticate to the API over Basic Authentication.

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ghp_vTGsQ5qfrRf9mPisNffMFtna3EnDD63aBIvW

Dashboard > Manage Jenkins > Configure System >

GitHub

GitHub Servers

GitHub Server

Name

GitHub

API URL

https://api.github.com

Credentials

GitHub token to connect my account

Add

Credentials verified for user Sivaprakash-pk; rate limit: 4999

Test connection

Manage hooks

Advanced

Add GitHub Server

Save

Apply

Credentials

T	P	Store	Domain	ID	Name
		System	(global)	Github_Token	Github token to connect my account
		System	(global)	Github_Cred	Sivaprakash-pk/***** (Github Cred)

Stores scoped to Jenkins

P	Store	Domains
	System	(global)

Icon: S M L

Activate Windows
Go to Settings to activate Windows.

REST API Jenkins 2.387.2

Override Hook URL

☒ Specify another hook URL for GitHub configuration

Shared secrets

Additional actions ?

<http://54.166.6.219:8080/github-webhook/>

Sivaprakash-pk / React-js_Project Public

Unwatch 1 Fork Star

<> Code Issues Pull requests Actions Projects Wiki Security Insights Settings

General

Access

 Collaborators
 Moderation options

Code and automation

 Rules (Beta)
 Actions
 Webhooks
 Environments
 Codespaces
 Pages

Security

 Code security and analysis
 Deploy keys
 Secrets and variables

Integrations

 GitHub Apps
 Email notifications

Webhooks / Manage webhook

We'll send a POST request to the URL below with details of any subscribed events. You can also specify which data format you'd like to receive (JSON, x-www-form-urlencoded, etc). More information can be found in [our developer documentation](#).

Payload URL *

Content type

Secret

Which events would you like to trigger this webhook?

- ☒ Just the push event.
- ☐ Send me everything.
- ☐ Let me select individual events.

☒ Active

We will deliver event details when this hook is triggered.

EC2 > Instances > i-06b04984a7befe46c

Instance summary for i-06b04984a7befe46c (React Front End App Server) [Info](#)

Refresh

Connect

Instance state ▼

Actions ▼

Instance ID

i-06b04984a7befe46c (React Front End App Server)

IPv6 address

-

Hostname type

IP name: ip-10-10-2-7.ec2.internal

Answer private resource DNS name

-

Auto-assigned IP address

44.204.20.208 [Public IP]

IAM Role

-

IMDSv2

Optional

Public IPv4 address

44.204.20.208 | [open address](#)

Instance state

Pending

Private IP DNS name (IPv4 only)

ip-10-10-2-7.ec2.internal

Instance type

t2.micro

VPC ID

vpc-0d0c096f8e9ca6c2d (t1-vpc) [↗](#)

Subnet ID

subnet-00c908021b14bb000 (t1-sub2) [↗](#)

Private IPv4 addresses

10.10.2.7

Public IPv4 DNS

-

Elastic IP addresses

-

AWS Compute Optimizer finding

[Opt-in to AWS Compute Optimizer for recommendations.](#) | [Learn more](#) [↗](#)

Auto Scaling Group name

-

44.204.20.208

Dashboard > Manage Jenkins > Configure Global Security

CSRF Protection

Crumb Issuer

Default Crumb Issuer

☒ Enable proxy compatibility [?](#)

Dashboard > Manage Jenkins > Configure System

Publish over SSH

Jenkins SSH Key [?](#)

Passphrase [?](#)

Path to key [?](#)

Key [?](#)

-----BEGIN RSA PRIVATE KEY-----
MIIEpAIBAAKCAQEA...
-----END RSA PRIVATE KEY-----

☐ Disable exec [?](#)

☐ Disable exec ?

SSH Servers

SSH Server

Name ?

React-app server(Docker)

Hostname ?

44.204.20.208

Username ?

ubuntu

Remote Directory ?

/home/ubuntu

Advanced ▾

Success

Test Configuration

Add

```
Siva@DESKTOP-QE0FD0T MINGW64 /c/Works/Capstone Project - React js/reactjs-demo (
master)
$ git push -f reactapp-gh-repo master
Enumerating objects: 49, done.
Counting objects: 100% (49/49), done.
Delta compression using up to 4 threads
Compressing objects: 100% (37/37), done.
Writing objects: 100% (49/49), 178.27 KiB | 44.57 MiB/s, done.
Total 49 (delta 13), reused 38 (delta 11), pack-reused 0
remote: Resolving deltas: 100% (13/13), done.
To https://github.com/Sivaprakash-pk/React-js_Project.git
* [new branch]      master -> master
```

☐ Disable exec ?

SSH Servers

SSH Server

Name ?

React-app server(Docker)

Hostname ?

54.175.149.56

Username ?

ubuntu

Remote Directory ?

/home/ubuntu

Advanced ▾

Success

Test Configuration

Add


```
mv src .
```

```
mv pubilc .
```

```
docker rm -f reactwebapp
```

```
docker rmi -f reactapp:v1
```

```
docker build -t reactapp:v1 .
```

```
docker run -dit --name reactwebapp -p 81:80 reactapp:v1
```

```
docker images
```

```
git clone https://github.com/Sivaprakash-pk/React-js_Project.git
```

```
cd React-js_Project
```

```
docker build -t reactapp:v1 .
```

```
docker run -dit --name reactwebapp -p 81:80 reactapp:v1
```

The screenshot shows the Jenkins web interface. At the top is a black header with the Jenkins logo, a search bar, and user information. Below the header is a breadcrumb trail: Dashboard > React JS web-app project > Configuration. The main content area is titled 'Configure' and 'General'. On the left is a sidebar with navigation links: General (selected), Source Code Management, Build Triggers, Build Environment, Build Steps, and Post-build Actions. The 'General' tab is active, showing a 'Description' field, a 'Discard old builds' checkbox, a checked 'GitHub project' checkbox, a 'Project url' field containing 'https://github.com/Sivaprakash-pk/React-js_Project.git', an 'Advanced' dropdown, and a 'Delivery Pipeline configuration' checkbox. A toggle switch on the right indicates the configuration is 'Enabled'.

☒ This project is parameterized ?

≡ Multi-line String Parameter

Name ?

GIT_BRANCH

Default Value ?

master

Description ?

Github branch name

[Plain text] [Preview](#)

≡ Multi-line String Parameter

Name ?

IMAGE_NAME

Default Value ?

reactapp

Description ?

Image name that build on local

[Plain text] [Preview](#)

≡

Multi-line String Parameter

×

Name ?

IMAGE_VERSION

Default Value ?

v1

Description ?

Image version that [build](#) on local

[Plain text] [Preview](#)

≡

Multi-line String Parameter

×

Name ?

DOCKERHUB_USERNAME

Default Value ?

sivaprakash1998

Description ?

Username to login [Dockerhub](#)

[Plain text] [Preview](#)

≡

Password Parameter ?

×

Name ?

DOCKERHUB_PASSWORD

Default Value ?

.....

Description ?

Password to login [Dockerhub](#)

[Plain text] [Preview](#)

Multi-line String Parameter

Name ?

DOCKER_REPO

Default Value ?

sivaprakash1998/prod-repo-reactapp

Description ?

Docker hub Repository name to push the docker image

[Plain text] [Preview](#)

Multi-line String Parameter

Name ?

DOCKER_TAG

Default Value ?

latest-img

Description ?

Docker hub Repository tag to push the docker image

[Plain text] [Preview](#)

Source Code Management

☐ None

☒ Git ?

Repositories ?

Repository URL ?

https://github.com/Sivaprakash-pk/React-js_Project.git

Credentials ?

Sivaprakash-pk/****** (Github Credential)

Add ▾

Advanced ▾

Add Repository

Branches to build ?

Branch Specifier (blank for 'any') ?

*/\$GIT_BRANCH

Add Branch

Repository browser ?

(Auto)

Additional Behaviours

Add ▾

Build Triggers

- ☐ Trigger builds remotely (e.g., from scripts) ?
- ☐ Build after other projects are built ?
- ☐ Build periodically ?
- ☒ GitHub hook trigger for GITScm polling ?
- ☐ Poll SCM ?

Build Environment

- ☒ Delete workspace before build starts

Advanced ▾

- ☐ Use secret text(s) or file(s) ?
- ☐ Provide Configuration files ?
- ☐ Send files or execute commands over SSH before the build starts ?
- ☐ Send files or execute commands over SSH after the build runs ?
- ☐ Add timestamps to the Console Output
- ☐ Create Delivery Pipeline version ?
- ☐ Inspect build log for published build scans
- ☐ Provide Node & npm bin/ folder to PATH
- ☐ Terminate a build if it's stuck
- ☐ With Ant ?

Build Steps

≡ Execute shell ?

×

Command

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

```
docker rmi $(docker images -q)
chmod 777 build.sh
chmod 777 deploy.sh
bash build.sh $IMAGE_NAME $IMAGE_VERSION
bash deploy.sh $DOCKERHUB_USERNAME $DOCKERHUB_PASSWORD $IMAGE_NAME $GIT_BRANCH $DOCKER_REPO $DOCKER_TAG
docker images
docker-compose up -d
docker rmi -f $IMAGE_NAME:$IMAGE_VERSION
docker rmi -f $DOCKER_REPO:$DOCKER_TAG
docker images
```

Advanced ▾

Add build step ▾

Post-build Actions

≡ Send build artifacts over SSH ?

×

SSH Publishers

SSH Server

Name ?

React-app server ▾

Advanced ▾

Transfers

Transfer Set

Source files ?

.

Remove prefix ?

Remote directory ?

Exec command ?

```
docker rm -f reactwebapp
docker rmi -f reactapp:v1
git clone https://github.com/Sivaprakash-pk/React-js_Project.git
cd React-js_Project
docker build -t reactapp:v1 .
docker run -dit --name reactwebapp -p 81:80 reactapp:v1
```

All of the transfer fields (except for Exec timeout) support substitution of [Jenkins environment variables](#)

Advanced ▾

Dashboard > React JS web-app project > #1 > Console Output

- Status
- </> Changes
- Console Output**
- View as plain text
- ✓ Edit Build Information
- Delete build '#1'
- Polling Log
- Parameters
- Git Build Data

Console Output

```
Started by GitHub push by Sivaprakash-pk
Running as SYSTEM
Building in workspace /var/lib/jenkins/workspace/React JS web-app project
[WS-CLEANUP] Deleting project workspace...
[WS-CLEANUP] Deferred wipeout is used...
The recommended git tool is: NONE
using credential Github_Credential
Cloning the remote Git repository
Cloning repository https://github.com/Sivaprakash-pk/React-js_Project.git
> /usr/bin/git init /var/lib/jenkins/workspace/React JS web-app project # timeout=10
Fetching upstream changes from https://github.com/Sivaprakash-pk/React-js_Project.git
> /usr/bin/git --version # timeout=10
> git --version # 'git version 2.34.1'
using GIT_ASKPASS to set credentials Github Credential
> /usr/bin/git fetch --tags --force --progress -- https://github.com/Sivaprakash-pk/React-js_Project.git +refs/heads/*:refs/remotes/origin/* # timeout=10
> /usr/bin/git config remote.origin.url https://github.com/Sivaprakash-pk/React-js_Project.git # timeout=10
> /usr/bin/git config --add remote.origin.fetch +refs/heads/*:refs/remotes/origin/* # timeout=10
Avoid second fetch
> /usr/bin/git rev-parse refs/remotes/origin/master^{commit} # timeout=10
Checking out Revision 58d7330f9bbaf8719512f8fe638e4652ba6231a (refs/remotes/origin/master)
> /usr/bin/git config core.sparsecheckout # timeout=10
> /usr/bin/git checkout -f 58d7330f9bbaf8719512f8fe638e4652ba6231a # timeout=10
Commit message: "1st commit"
First time build. Skipping changelog.
[React JS web-app project] $ /bin/sh -xe /tmp/jenkins16608667109891542447.sh
+ docker images -q
+ docker rmi 07f4e626c252
Untagged: node:latest
Untagged: node@sha256:242d81ad2e91353ac3a5ed3598592acba49a7761b16c60524b949a1603707848
Deleted: sha256:07f4e626c252cc83c9c82225058cb4226581b77e44d614d8f8585828c34f496
Deleted: sha256:6d7140527100b8a0b62be606f36279d068bc6e0fa52a415f02d8d8930e4e226
Deleted: sha256:4017cd6327da64d694e907023b3b27cf7073ced08456e88014989b41cdacba41
```

Dashboard > React JS web-app project > #1 > Console Output

```
Jenkins-Agent - mounted from /usr/bin/sh
cf00811d364e: Mounted from library/node
e29838afe336: Mounted from library/node
b86f260e173a: Mounted from library/node
6a1eb0900dc: Mounted from library/node
ae56c0c5405b: Mounted from library/node
24b48387f467: Mounted from library/node
c3992d02ff6f: Pushed
dd9ef4e5d00: Pushed
latest-img: digest: sha256:c39bc25973480a900e906f37db7a8dd004bc9b1c5bbf6fdebc121330d08042ff size: 4099
Removing login credentials for https://index.docker.io/v1/
+ docker images
REPOSITORY          TAG                 IMAGE ID            CREATED             SIZE
reactapp             v1                  69f997d3ff5f       20 seconds ago     1.340B
sivaprakash1998/prod-repo-reactapp latest-img          69f997d3ff5f       20 seconds ago     1.340B
node                 latest              07f4e626c252       6 days ago         10B
+ docker-compose up -d
Creating network "reactjsweb-appproject_default" with the default driver
Creating reactapp ...
Creating reactapp ... done
+ docker rmi -f reactapp:v1
Untagged: reactapp:v1
+ docker rmi -f sivaprakash1998/prod-repo-reactapp:latest-img
Untagged: sivaprakash1998/prod-repo-reactapp:latest-img
Untagged: sivaprakash1998/prod-repo-reactapp@sha256:c39bc25973480a900e906f37db7a8dd004bc9b1c5bbf6fdebc121330d08042ff
+ docker images
REPOSITORY          TAG                 IMAGE ID            CREATED             SIZE
<none>              <none>             69f997d3ff5f       21 seconds ago     1.340B
node                 latest              07f4e626c252       6 days ago         10B
SSH: Connecting from host [ip-10-10-2-197]
SSH: Connecting with configuration [React-app server] ...
SSH: EXEC: completed after 601 ms
SSH: Disconnecting configuration [React-app server] ...
SSH: Transferred 0 file(s)
Finished: SUCCESS
```

Output :

```
Started by GitHub push by Sivaprakash-pk
Running as SYSTEM
Building in workspace /var/lib/jenkins/workspace/React JS web-app project
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Cloning repository https://github.com/Sivaprakash-pk/React-js Project.git
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timeout=10
Fetching upstream changes from https://github.com/Sivaprakash-pk/React-
js Project.git
> /usr/bin/git --version # timeout=10
> git --version # 'git version 2.34.1'
using GIT_ASKPASS to set credentials Github Credential
> /usr/bin/git fetch --tags --force --progress --
https://github.com/Sivaprakash-pk/React-js Project.git
+refs/heads/*:refs/remotes/origin/* # timeout=10
> /usr/bin/git config remote.origin.url https://github.com/Sivaprakash-
pk/React-js Project.git # timeout=10
> /usr/bin/git config --add remote.origin.fetch
+refs/heads/*:refs/remotes/origin/* # timeout=10
Avoid second fetch
> /usr/bin/git rev-parse refs/remotes/origin/master^{commit} # timeout=10
Checking out Revision 50d7330f9babfa8719512f8fe638e46520a6231a
(refs/remotes/origin/master)
> /usr/bin/git config core.sparsecheckout # timeout=10
> /usr/bin/git checkout -f 50d7330f9babfa8719512f8fe638e46520a6231a #
timeout=10
Commit message: "1st commit"
First time build. Skipping changelog.
[React JS web-app project] $ /bin/sh -xe /tmp/jenkins16608667109891542447.sh
+ docker images -q
+ docker rmi 07f4e626c252
```



```
Untagged: node:latest
Untagged:
node@sha256:242d81ad2a91353ac3a5ed3598582acb4a9a7761b16c60524b949a1603707848
Deleted:
sha256:07f4e626c252cc83cd9c82225058cb4226581b77e44d614d8f8585828c34f496
Deleted:
sha256:6d7140527100b8a0b62be606f36279d068bc6a0fa52a415f02d8dd8930e4a226
Deleted:
sha256:4017cd6327da64d694e907023bd3b27cf7073ced8456e88014989b41cdacba41
Deleted:
sha256:37cd3570fe018fbedb5359582a8d749c9ba8a3806519649433cef62df9656b3a
Deleted:
sha256:6c57c349090475e4c491e2c774e2cb25cd949db386d5bc0ac605908b65d10584
Deleted:
sha256:230c3b2acf5c7ce5ccbc11c5292092a5af0ce5b1e366228eee031eb9c84ed0dc
Deleted:
sha256:34349aaf2e7f75c266222ea09df6e2bef39fea73640d191dfc5d271d390103fc
Deleted:
sha256:f51029f953be13d297d2bc2dd7c56c0a84c77cd7bd6672837a01c4571c7cf5fa
Deleted:
sha256:2fab58d5cf486ed4ca265634fde3c8b4a046ade908d9b1d5405d8dfce6d12413
Deleted:
sha256:ae56c0c5405b3d38a59b5ec5dfe5db36e8b6ff6ca8595851f903cde13e709282
+ chmod 777 build.sh
+ chmod 777 deploy.sh
+ bash build.sh reactapp v1
Get the Image name from Parameterized variable:
Get the Image version from Parameterized variable:
Sending build context to Docker daemon 1.342MB
```

```
Step 1/13 : FROM node:latest
latest: Pulling from library/node
b0248cf3e63c: Pulling fs layer
127e97b4daf7: Pulling fs layer
0336c50c9f69: Pulling fs layer
1b89f3c7f7da: Pulling fs layer
2d6277217976: Pulling fs layer
9b293df1e1ca: Pulling fs layer
8365abce50c7: Pulling fs layer
50dcc63adbff: Pulling fs layer
2f7b576afa06: Pulling fs layer
1b89f3c7f7da: Waiting
2d6277217976: Waiting
9b293df1e1ca: Waiting
8365abce50c7: Waiting
50dcc63adbff: Waiting
2f7b576afa06: Waiting
127e97b4daf7: Verifying Checksum
127e97b4daf7: Download complete
0336c50c9f69: Verifying Checksum
0336c50c9f69: Download complete
b0248cf3e63c: Verifying Checksum
b0248cf3e63c: Download complete
9b293df1e1ca: Verifying Checksum
9b293df1e1ca: Download complete
1b89f3c7f7da: Verifying Checksum
1b89f3c7f7da: Download complete
```

```
50dcc63adbff: Verifying Checksum
50dcc63adbff: Download complete
2f7b576afa06: Verifying Checksum
2f7b576afa06: Download complete
8365abce50c7: Verifying Checksum
8365abce50c7: Download complete
b0248cf3e63c: Pull complete
2d6277217976: Verifying Checksum
2d6277217976: Download complete
127e97b4daf7: Pull complete
0336c50c9f69: Pull complete
1b89f3c7f7da: Pull complete
2d6277217976: Pull complete
9b293df1e1ca: Pull complete
8365abce50c7: Pull complete
50dcc63adbff: Pull complete
2f7b576afa06: Pull complete
Digest:
sha256:242d81ad2a91353ac3a5ed3598582acb4a9a7761b16c60524b949a1603707848
Status: Downloaded newer image for node:latest
---> 07f4e626c252
Step 2/13 : RUN apt-get update && apt-get install -y nginx
---> Running in 2f4c79e4d861
Get:1 http://deb.debian.org/debian bullseye InRelease [116 kB]
Get:2 http://deb.debian.org/debian-security bullseye-security InRelease [48.4
kB]
Get:3 http://deb.debian.org/debian bullseye-updates InRelease [44.1 kB]
Get:4 http://deb.debian.org/debian bullseye/main amd64 Packages [8183 kB]
Get:5 http://deb.debian.org/debian-security bullseye-security/main amd64
Packages [237 kB]
Get:6 http://deb.debian.org/debian bullseye-updates/main amd64 Packages [14.6
kB]
Fetched 8643 kB in 1s (6155 kB/s)
Reading package lists...
Reading package lists...
Building dependency tree...
Reading state information...
The following additional packages will be installed:
  geoip-database iproute2 libatm1 libbbpf0 libcap2 libcap2-bin libgd3
  libgeoip1
  libmnl0 libnginx-mod-http-geoip libnginx-mod-http-image-filter
  libnginx-mod-http-xslt-filter libnginx-mod-mail libnginx-mod-stream
  libnginx-mod-stream-geoip libpam-cap libxpm4 libxtables12 nginx-common
  nginx-core
Suggested packages:
  iproute2-doc libgd-tools geoip-bin fcgiwrap nginx-doc ssl-cert
The following NEW packages will be installed:
  geoip-database iproute2 libatm1 libbbpf0 libcap2 libcap2-bin libgd3
  libgeoip1
  libmnl0 libnginx-mod-http-geoip libnginx-mod-http-image-filter
  libnginx-mod-http-xslt-filter libnginx-mod-mail libnginx-mod-stream
  libnginx-mod-stream-geoip libpam-cap libxpm4 libxtables12 nginx nginx-
common
  nginx-core
0 upgraded, 21 newly installed, 0 to remove and 2 not upgraded.
Need to get 5957 kB of archives.
After this operation, 17.7 MB of additional disk space will be used.
```

Get:1 <http://deb.debian.org/debian> bullseye/main amd64 libbpf0 amd64 1:0.3-2
[98.3 kB]
Get:2 <http://deb.debian.org/debian> bullseye/main amd64 libcap2 amd64 1:2.44-1
[23.6 kB]
Get:3 <http://deb.debian.org/debian> bullseye/main amd64 libmnl0 amd64 1.0.4-3
[12.5 kB]
Get:4 <http://deb.debian.org/debian> bullseye/main amd64 libxtables12 amd64
1.8.7-1 [45.1 kB]
Get:5 <http://deb.debian.org/debian> bullseye/main amd64 libcap2-bin amd64
1:2.44-1 [32.6 kB]
Get:6 <http://deb.debian.org/debian> bullseye/main amd64 iproute2 amd64 5.10.0-
4 [930 kB]
Get:7 <http://deb.debian.org/debian> bullseye/main amd64 geoip-database all
20191224-3 [3032 kB]
Get:8 <http://deb.debian.org/debian> bullseye/main amd64 libatml amd64 1:2.5.1-
4 [71.3 kB]
Get:9 <http://deb.debian.org/debian> bullseye/main amd64 libxpm4 amd64
1:3.5.12-1 [49.1 kB]
Get:10 <http://deb.debian.org/debian> bullseye/main amd64 libgd3 amd64 2.3.0-2
[137 kB]
Get:11 <http://deb.debian.org/debian> bullseye/main amd64 libgeoip1 amd64
1.6.12-7 [92.5 kB]
Get:12 <http://deb.debian.org/debian> bullseye/main amd64 nginx-common all
1.18.0-6.1+deb11u3 [126 kB]
Get:13 <http://deb.debian.org/debian> bullseye/main amd64 libnginx-mod-http-
geoip amd64 1.18.0-6.1+deb11u3 [98.4 kB]
Get:14 <http://deb.debian.org/debian> bullseye/main amd64 libnginx-mod-http-
image-filter amd64 1.18.0-6.1+deb11u3 [102 kB]
Get:15 <http://deb.debian.org/debian> bullseye/main amd64 libnginx-mod-http-
xslt-filter amd64 1.18.0-6.1+deb11u3 [100 kB]
Get:16 <http://deb.debian.org/debian> bullseye/main amd64 libnginx-mod-mail
amd64 1.18.0-6.1+deb11u3 [129 kB]
Get:17 <http://deb.debian.org/debian> bullseye/main amd64 libnginx-mod-stream
amd64 1.18.0-6.1+deb11u3 [154 kB]
Get:18 <http://deb.debian.org/debian> bullseye/main amd64 libnginx-mod-stream-
geoip amd64 1.18.0-6.1+deb11u3 [97.7 kB]
Get:19 <http://deb.debian.org/debian> bullseye/main amd64 libpam-cap amd64
1:2.44-1 [15.4 kB]
Get:20 <http://deb.debian.org/debian> bullseye/main amd64 nginx-core amd64
1.18.0-6.1+deb11u3 [515 kB]
Get:21 <http://deb.debian.org/debian> bullseye/main amd64 nginx all 1.18.0-
6.1+deb11u3 [92.9 kB]

[91mdebconf: delaying package configuration, since apt-utils is not installed
[0mFetched 5957 kB in 0s (65.3 MB/s)

Selecting previously unselected package libbpf0:amd64.

(Reading database ...

(Reading database ... 5%

(Reading database ... 10%

(Reading database ... 15%

(Reading database ... 20%

(Reading database ... 25%

(Reading database ... 30%

(Reading database ... 35%

(Reading database ... 40%

(Reading database ... 45%

(Reading database ... 50%

(Reading database ... 55%

(Reading database ... 60%
(Reading database ... 65%
(Reading database ... 70%
(Reading database ... 75%
(Reading database ... 80%
(Reading database ... 85%
(Reading database ... 90%
(Reading database ... 95%
(Reading database ... 100%
(Reading database ... 22794 files and directories currently installed.)
Preparing to unpack .../00-libbpf0_1%3a0.3-2_amd64.deb ...
Unpacking libbpf0:amd64 (1:0.3-2) ...
Selecting previously unselected package libcap2:amd64.
Preparing to unpack .../01-libcap2_1%3a2.44-1_amd64.deb ...
Unpacking libcap2:amd64 (1:2.44-1) ...
Selecting previously unselected package libmnl0:amd64.
Preparing to unpack .../02-libmnl0_1.0.4-3_amd64.deb ...
Unpacking libmnl0:amd64 (1.0.4-3) ...
Selecting previously unselected package libxtables12:amd64.
Preparing to unpack .../03-libxtables12_1.8.7-1_amd64.deb ...
Unpacking libxtables12:amd64 (1.8.7-1) ...
Selecting previously unselected package libcap2-bin.
Preparing to unpack .../04-libcap2-bin_1%3a2.44-1_amd64.deb ...
Unpacking libcap2-bin (1:2.44-1) ...
Selecting previously unselected package iproute2.
Preparing to unpack .../05-iproute2_5.10.0-4_amd64.deb ...
Unpacking iproute2 (5.10.0-4) ...
Selecting previously unselected package geoip-database.
Preparing to unpack .../06-geoip-database_20191224-3_all.deb ...
Unpacking geoip-database (20191224-3) ...
Selecting previously unselected package libatm1:amd64.
Preparing to unpack .../07-libatm1_1%3a2.5.1-4_amd64.deb ...
Unpacking libatm1:amd64 (1:2.5.1-4) ...
Selecting previously unselected package libxpm4:amd64.
Preparing to unpack .../08-libxpm4_1%3a3.5.12-1_amd64.deb ...
Unpacking libxpm4:amd64 (1:3.5.12-1) ...
Selecting previously unselected package libgd3:amd64.
Preparing to unpack .../09-libgd3_2.3.0-2_amd64.deb ...
Unpacking libgd3:amd64 (2.3.0-2) ...
Selecting previously unselected package libgeoip1:amd64.
Preparing to unpack .../10-libgeoip1_1.6.12-7_amd64.deb ...
Unpacking libgeoip1:amd64 (1.6.12-7) ...
Selecting previously unselected package nginx-common.
Preparing to unpack .../11-nginx-common_1.18.0-6.1+deb11u3_all.deb ...
Unpacking nginx-common (1.18.0-6.1+deb11u3) ...
Selecting previously unselected package libnginx-mod-http-geoip.
Preparing to unpack .../12-libnginx-mod-http-geoip_1.18.0-6.1+deb11u3_amd64.deb ...
Unpacking libnginx-mod-http-geoip (1.18.0-6.1+deb11u3) ...
Selecting previously unselected package libnginx-mod-http-image-filter.
Preparing to unpack .../13-libnginx-mod-http-image-filter_1.18.0-6.1+deb11u3_amd64.deb ...
Unpacking libnginx-mod-http-image-filter (1.18.0-6.1+deb11u3) ...
Selecting previously unselected package libnginx-mod-http-xslt-filter.
Preparing to unpack .../14-libnginx-mod-http-xslt-filter_1.18.0-6.1+deb11u3_amd64.deb ...
Unpacking libnginx-mod-http-xslt-filter (1.18.0-6.1+deb11u3) ...

```

Selecting previously unselected package libnginx-mod-mail.
Preparing to unpack .../15-libnginx-mod-mail_1.18.0-6.1+deb11u3_amd64.deb ...
Unpacking libnginx-mod-mail (1.18.0-6.1+deb11u3) ...
Selecting previously unselected package libnginx-mod-stream.
Preparing to unpack .../16-libnginx-mod-stream_1.18.0-6.1+deb11u3_amd64.deb
...
Unpacking libnginx-mod-stream (1.18.0-6.1+deb11u3) ...
Selecting previously unselected package libnginx-mod-stream-geoip.
Preparing to unpack .../17-libnginx-mod-stream-geoip_1.18.0-
6.1+deb11u3_amd64.deb ...
Unpacking libnginx-mod-stream-geoip (1.18.0-6.1+deb11u3) ...
Selecting previously unselected package libpam-cap:amd64.
Preparing to unpack .../18-libpam-cap_1%3a2.44-1_amd64.deb ...
Unpacking libpam-cap:amd64 (1:2.44-1) ...
Selecting previously unselected package nginx-core.
Preparing to unpack .../19-nginx-core_1.18.0-6.1+deb11u3_amd64.deb ...
Unpacking nginx-core (1.18.0-6.1+deb11u3) ...
Selecting previously unselected package nginx.
Preparing to unpack .../20-nginx_1.18.0-6.1+deb11u3_all.deb ...
Unpacking nginx (1.18.0-6.1+deb11u3) ...
Setting up libxpm4:amd64 (1:3.5.12-1) ...
Setting up nginx-common (1.18.0-6.1+deb11u3) ...
debconf: unable to initialize frontend: Dialog
debconf: (TERM is not set, so the dialog frontend is not usable.)
debconf: falling back to frontend: Readline
Setting up libatm1:amd64 (1:2.5.1-4) ...
Setting up libcap2:amd64 (1:2.44-1) ...
Setting up libcap2-bin (1:2.44-1) ...
Setting up libnginx-mod-http-xslt-filter (1.18.0-6.1+deb11u3) ...
Setting up libgd3:amd64 (2.3.0-2) ...
Setting up libmnl0:amd64 (1.0.4-3) ...
Setting up libxtables12:amd64 (1.8.7-1) ...
Setting up libgeoip1:amd64 (1.6.12-7) ...
Setting up geoip-database (20191224-3) ...
Setting up libbpf0:amd64 (1:0.3-2) ...
Setting up libpam-cap:amd64 (1:2.44-1) ...
debconf: unable to initialize frontend: Dialog
debconf: (TERM is not set, so the dialog frontend is not usable.)
debconf: falling back to frontend: Readline
Setting up libnginx-mod-mail (1.18.0-6.1+deb11u3) ...
Setting up iproute2 (5.10.0-4) ...
debconf: unable to initialize frontend: Dialog
debconf: (TERM is not set, so the dialog frontend is not usable.)
debconf: falling back to frontend: Readline
Setting up libnginx-mod-http-image-filter (1.18.0-6.1+deb11u3) ...
Setting up libnginx-mod-stream (1.18.0-6.1+deb11u3) ...
Setting up libnginx-mod-stream-geoip (1.18.0-6.1+deb11u3) ...
Setting up libnginx-mod-http-geoip (1.18.0-6.1+deb11u3) ...
Setting up nginx-core (1.18.0-6.1+deb11u3) ...
invoke-rc.d: could not determine current runlevel
invoke-rc.d: policy-rc.d denied execution of start.
Setting up nginx (1.18.0-6.1+deb11u3) ...
Processing triggers for libc-bin (2.31-13+deb11u5) ...
Removing intermediate container 2f4c79e4d861
---> 73e996eld898
Step 3/13 : RUN rm /etc/nginx/sites-enabled/default
---> Running in c4ea75495165

```

```

Removing intermediate container c4ea75495165
---> f45b72d64b4e
Step 4/13 : COPY nginx.conf /etc/nginx/sites-enabled/
---> b22eb43f8485
Step 5/13 : WORKDIR /usr/src/app
---> Running in 40d79b702207
Removing intermediate container 40d79b702207
---> da69c81ca926
Step 6/13 : ENV NODE_OPTIONS="--openssl-legacy-provider"
---> Running in b5ad2db64ac5
Removing intermediate container b5ad2db64ac5
---> cc828eff0e74
Step 7/13 : COPY package*.json ./
---> 0a04940a3356
Step 8/13 : RUN npm install
---> Running in 5ae707c3634a
[91mnp[0m[91m WARN old lockfile
npm WARN[0m[91m old lockfile The package-lock.json file was created with an
old version of npm,
npm WARN old lockfile so supplemental metadata must be fetched from the
registry.
npm WARN old lockfile
npm WARN old lockfile This is a one-time fix-up, please be patient...
npm WARN old lockfile
[0m[91mnp[0m[91m [0m[91mWARN[0m[91m [0m[91mdeprecated[0m[91m w3c-hr-
time@1.0.2: Use your platform's native performance.now() and
performance.timeOrigin.
[0m[91mnp[0m[91m deprecated unix@0.1.0: Please see
https://github.com/lydell/urix#deprecated
[0m[91mnp[0m[91m deprecated uuid@3.4.0: Please upgrade to version 7 or
higher. Older versions may use Math.random() in certain circumstances, which
is known to be problematic. See https://v8.dev/blog/math-random for details.
[0m[91mnp[0m[91m deprecated stable@0.1.8: Modern JS already guarantees
Array#sort() is a stable sort, so this library is deprecated. See the
compatibility table on MDN: https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global\_Objects/Array/sort#browser\_compatibility
[0m[91mnp[0m[91m [0m[91mWARN[0m[91m [0m[91mdeprecated svgo@1.3.2: This SVG
version is no longer supported. Upgrade to v2.x.x.
[0m[91mnp[0m[91m deprecated source-map-url@0.4.0: See
https://github.com/lydell/source-map-url#deprecated
[0m[91mnp[0m[91m [0m[91mWARN[0m[91m [0m[91mdeprecated[0m[91m source-map-
resolve@0.5.3: See https://github.com/lydell/source-map-resolve#deprecated
[0m[91mnp[0m[91m [0m[91mWARN[0m[91m [0m[91mdeprecated[0m[91m sane@4.1.0:
some dependency vulnerabilities fixed, support for node < 10 dropped, and
newer ECMAScript syntax/features added
[0m[91mnp[0m[91m deprecated resolve-url@0.2.1:
https://github.com/lydell/resolve-url#deprecated
[0m[91mnp[0m[91m deprecated request-promise-native@1.0.8: request-promise-
native has been deprecated because it extends the now deprecated request
package, see https://github.com/request/request/issues/3142
[0m[91mnp[0m[91m deprecated request@2.88.2: request has been deprecated, see
https://github.com/request/request/issues/3142
[0m[91mnp[0m[91m [0m[91mWARN[0m[91m [0m[91mdeprecated[0m[91m
querystring@0.2.0: The querystring API is considered Legacy. new code should
use the URLSearchParams API instead.
[0m[91mnp[0m[91m deprecated left-pad@1.3.0: use String.prototype.padStart()

```

[0m[91mnpn WARN [0m[91mdprecated ini@1.3.5: Please update to ini >=1.3.6 to avoid a prototype pollution issue

[0m[91mnpn WARN deprecated html-webpack-plugin@4.0.0-beta.11: please switch to a stable version

[0m[91mnpn WARN deprecated har-validator@5.1.3: this library is no longer supported

[0m[91mnpn WARN deprecated flatten@1.0.3: flatten is deprecated in favor of utility frameworks such as lodash.

[0m[91mnpn WARN deprecated eslint-loader@3.0.3: This loader has been deprecated. Please use eslint-webpack-plugin

[0m[91mnpn WARN deprecated debug@4.1.1: Debug versions >=3.2.0 <3.2.7 || >=4 <4.3.1 have a low-severity ReDos regression when used in a Node.js environment. It is recommended you upgrade to 3.2.7 or 4.3.1. (<https://github.com/visionmedia/debug/issues/797>)

[0m[91mnpn WARN deprecated babel-eslint@10.1.0: babel-eslint is now @babel/eslint-parser. This package will no longer receive updates.

[0m[91mnpn WARN deprecated core-js-pure@3.6.5: core-js-pure@<3.23.3 is no longer maintained and not recommended for usage due to the number of issues. Because of the V8 engine whims, feature detection in old core-js versions could cause a slowdown up to 100x even if nothing is polyfilled. Some versions have web compatibility issues. Please, upgrade your dependencies to the actual version of core-js-pure.

[0m[91mnpn WARN deprecated core-js@3.6.5: core-js@<3.23.3 is no longer maintained and not recommended for usage due to the number of issues. Because of the V8 engine whims, feature detection in old core-js versions could cause a slowdown up to 100x even if nothing is polyfilled. Some versions have web compatibility issues. Please, upgrade your dependencies to the actual version of core-js.

[0m[91mnpn WARN deprecated @hapi/topo@3.1.6: This version has been deprecated and is no longer supported or maintained

[0m[91mnpn WARN deprecated @hapi/joi@15.1.1: Switch to 'npm install joi'

[0m[91mnpn WARN deprecated @hapi/hoek@8.5.1: This version has been deprecated and is no longer supported or maintained

[0m[91mnpn WARN deprecated @hapi/bourne@1.3.2: This version has been deprecated and is no longer supported or maintained

[0m[91mnpn WARN deprecated @hapi/address@2.1.4: Moved to 'npm install @sideway/address'

[0m[91mnpn WARN deprecated chokidar@2.1.8: Chokidar 2 does not receive security updates since 2019. Upgrade to chokidar 3 with 15x fewer dependencies

[0m[91mnpn WARN deprecated chokidar@2.1.8: Chokidar 2 does not receive security updates since 2019. Upgrade to chokidar 3 with 15x fewer dependencies

[0m[91mnpn [0m[91m [0m[91mWARN [0m[91m [0m[91mdprecated [0m[91m debug@3.2.6: Debug versions >=3.2.0 <3.2.7 || >=4 <4.3.1 have a low-severity ReDos regression when used in a Node.js environment. It is recommended you upgrade to 3.2.7 or 4.3.1. (<https://github.com/visionmedia/debug/issues/797>)

[0m[91mnpn WARN deprecated debug@3.2.6: Debug versions >=3.2.0 <3.2.7 || >=4 <4.3.1 have a low-severity ReDos regression when used in a Node.js environment. It is recommended you upgrade to 3.2.7 or 4.3.1. (<https://github.com/visionmedia/debug/issues/797>)

[0m[91mnpn WARN deprecated core-js@2.6.11: core-js@<3.23.3 is no longer maintained and not recommended for usage due to the number of issues. Because of the V8 engine whims, feature detection in old core-js versions could cause a slowdown up to 100x even if nothing is polyfilled. Some versions have web compatibility issues. Please, upgrade your dependencies to the actual version of core-js.

```
[0m
added 1645 packages, and audited 1646 packages in 50s

64 packages are looking for funding
  run `npm fund` for details

78 vulnerabilities (1 low, 26 moderate, 38 high, 13 critical)

To address issues that do not require attention, run:
  npm audit fix

To address all issues (including breaking changes), run:
  npm audit fix --force

Run `npm audit` for details.
[91mnp[0m[91m [0m[91mnotice[0m[91m
[0m[91mnp[0m[91m notice New patch version of npm available! 9.6.4 -> 9.6.5
npm [0m[91mnotice Changelog: <https://github.com/npm/cli/releases/tag/v9.6.5>
npm notice Run `npm install -g npm@9.6.5` to update!
[0m[91mnp[0m notice
[0mRemoving intermediate container 5ae707c3634a
---> 4679e4192de6
Step 9/13 : COPY . .
---> d3dded32e1f0
Step 10/13 : RUN npm run build
---> Running in 48d8bfe08222

> react-front-end@0.1.0 build
> react-scripts build

Creating an optimized production build...
[91mBrowserslist: caniuse-lite is outdated. Please run:
npx browserslist@latest --update-db
[0mCompiled successfully.

File sizes after gzip:

 40.46 KB  build/static/js/2.c71cdbdb.chunk.js
 22.47 KB  build/static/css/2.af3c1da9.chunk.css
 793 B     build/static/js/main.079458d2.chunk.js
 779 B     build/static/js/runtime-main.c2a4c5c8.js
 547 B     build/static/css/main.5f361e03.chunk.css

The project was built assuming it is hosted at /.
You can control this with the homepage field in your package.json.

The build folder is ready to be deployed.
You may serve it with a static server:

  npm install -g serve
  serve -s build

Find out more about deployment here:

  bit.ly/CRA-deploy

Removing intermediate container 48d8bfe08222
```



```

---> bd880e30399e
Step 11/13 : RUN echo "server {\n\tlisten 80;\n\troot
/usr/src/app/build;\n\tindex index.html;\n\tserver_name localhost;\n}" >
/etc/nginx/sites-enabled/default
---> Running in 4aa39badc9b6
Removing intermediate container 4aa39badc9b6
---> 07738c149502
Step 12/13 : EXPOSE 80
---> Running in 2090846d438b
Removing intermediate container 2090846d438b
---> 10b1baa0c557
Step 13/13 : CMD ["nginx", "-g", "daemon off;"]
---> Running in f9e71cca6e83
Removing intermediate container f9e71cca6e83
---> 69f997d3ff5f
Successfully built 69f997d3ff5f
Successfully tagged reactapp:v1
Docker image build completed successfully.
REPOSITORY      TAG          IMAGE ID      CREATED          SIZE
reactapp        v1           69f997d3ff5f   Less than a second ago   1.34GB
node            latest       07f4e626c252   6 days ago      1GB
+ bash deploy.sh sivaprakash1998 Login$1998pk reactapp master
sivaprakash1998/prod-repo-reactapp latest-img
WARNING! Your password will be stored unencrypted in
/var/lib/jenkins/.docker/config.json.
Configure a credential helper to remove this warning. See
https://docs.docker.com/engine/reference/commandline/login/#credentials-store

```

Login Succeeded

The push refers to repository [docker.io/sivaprakash1998/prod-repo-reactapp]

```

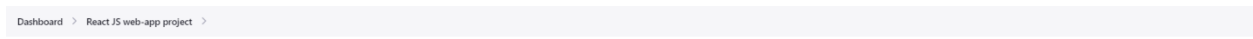
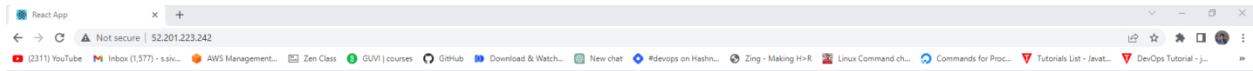
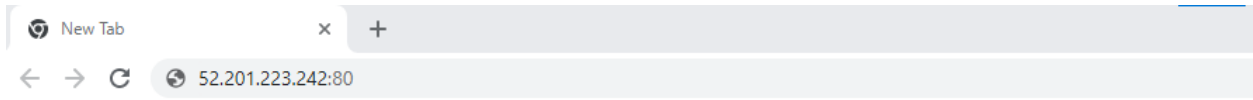
09aa4cea9b3e: Preparing
9f123f976e70: Preparing
44ce62198b08: Preparing
ddd9ef4e5d00: Preparing
57ebbf0d54f7: Preparing
56e40881e20c: Preparing
684b3747c1b8: Preparing
9b1b06e19bf1: Preparing
c3992d02ff0f: Preparing
52a74f30f3d6: Preparing
257a23ea050f: Preparing
59ce4b011e6f: Preparing
e29838afe536: Preparing
cfd0811d364e: Preparing
b86f260e173a: Preparing
6alebb98b0dc: Preparing
24b48387f467: Preparing
ae56c0c5405b: Preparing
257a23ea050f: Waiting
59ce4b011e6f: Waiting
e29838afe536: Waiting
cfd0811d364e: Waiting
b86f260e173a: Waiting
6alebb98b0dc: Waiting
24b48387f467: Waiting
ae56c0c5405b: Waiting
56e40881e20c: Waiting

```

```

684b3747c1b8: Waiting
9b1b06e19bf1: Waiting
c3992d02ff0f: Waiting
52a74f30f3d6: Waiting
09aa4cea9b3e: Pushed
44ce62198b08: Pushed
57ebbf0d54f7: Pushed
9f123f976e70: Pushed
56e40881e20c: Pushed
684b3747c1b8: Pushed
9b1b06e19bf1: Pushed
257a23ea050f: Mounted from library/node
52a74f30f3d6: Mounted from library/node
59ce4b011e6f: Mounted from library/node
cfd0811d364e: Mounted from library/node
e29838afe536: Mounted from library/node
b86f260e173a: Mounted from library/node
6alebb98b0dc: Mounted from library/node
ae56c0c5405b: Mounted from library/node
24b48387f467: Mounted from library/node
c3992d02ff0f: Pushed
ddd9ef4e5d00: Pushed
latest-img: digest:
sha256:c39bc25973480a9060e9b6f37db7a8dd804bc9b1c5bbf6fde0c121330d8042ff size:
4099
Removing login credentials for https://index.docker.io/v1/
+ docker images
REPOSITORY                                TAG          IMAGE ID          CREATED
SIZE
reactapp                                  v1           69f997d3ff5f     20 seconds
ago    1.34GB
sivaprakash1998/prod-repo-reactapp       latest-img   69f997d3ff5f     20 seconds
ago    1.34GB
node                                       latest       07f4e626c252     6 days ago
1GB
+ docker-compose up -d
Creating network "reactjsweb-appproject_default" with the default driver
Creating reactapp ...
Creating reactapp ... done
+ docker rmi -f reactapp:v1
Untagged: reactapp:v1
+ docker rmi -f sivaprakash1998/prod-repo-reactapp:latest-img
Untagged: sivaprakash1998/prod-repo-reactapp:latest-img
Untagged: sivaprakash1998/prod-repo-
reactapp@sha256:c39bc25973480a9060e9b6f37db7a8dd804bc9b1c5bbf6fde0c121330d804
2ff
+ docker images
REPOSITORY    TAG          IMAGE ID          CREATED          SIZE
node          latest       07f4e626c252     6 days ago      1GB
SSH: Connecting from host [ip-10-10-2-197]
SSH: Connecting with configuration [React-app server] ...
SSH: EXEC: completed after 601 ms
SSH: Disconnecting configuration [React-app server] ...
SSH: Transferred 0 file(s)
Finished: SUCCESS

```



Status

</> Changes

Workspace

Build with Parameters

Configure

Delete Project

GitHub Hook Log

GitHub

Rename

Build History

trend

Filter builds...

#1

Apr 27, 2023 2:40 PM

Atom feed for all

Atom feed for failures

Project React JS web-app project

This build requires parameters:

GIT_BRANCH

GitHub branch name

dev

IMAGE_NAME

Image name that build on local

reactapp

IMAGE_VERSION

Image version that build on local

v1

DOCKERHUB_USERNAME

Username to login Dockerhub

sivaprakash1998

DOCKERHUB_PASSWORD

Password to login Dockerhub

Concealed

Change Password

DOCKER_REPO

Docker hub Repository name to push the docker image

sivaprakash1990/prod-repo-reactapp

DOCKER_TAG

Docker hub Repository tag to push the docker image

latest-img

Build

- Status
- Changes
- Console Output
- View as plain text
- Edit Build Information
- Delete build '#2'
- Parameters
- Git Build Data
- Previous Build

Console Output

```
Started by user Sivaprakash S
Running as SYSTEM
Building in workspace /var/lib/jenkins/workspace/React JS web-app project
[WS-CLEANUP] Deleting project workspace...
[WS-CLEANUP] Deferred wipeout is used...
[WS-CLEANUP] Done
The recommended git tool is: NONE
using credential Github_Credential
Cloning the remote Git repository
Cloning repository https://github.com/Sivaprakash-pk/React-js_Project.git
> /usr/bin/git init /var/lib/jenkins/workspace/React JS web-app project # timeout=10
Fetching upstream changes from https://github.com/Sivaprakash-pk/React-js_Project.git
> /usr/bin/git --version # timeout=10
> git --version # 'git version 2.34.1'
using GIT_SSH to set credentials Github_Credential
> /usr/bin/git fetch --tags --force --progress -- https://github.com/Sivaprakash-pk/React-js_Project.git +refs/heads/*:refs/remotes/origin/* # timeout=10
> /usr/bin/git config remote.origin.url https://github.com/Sivaprakash-pk/React-js_Project.git # timeout=10
> /usr/bin/git config --add remote.origin.fetch +refs/heads/*:refs/remotes/origin/* # timeout=10
Avoid second fetch
> /usr/bin/git rev-parse refs/remotes/origin/dev^{commit} # timeout=10
Checking out Revision 50d7330f9babfa8719512f8fe638e46520a6231a (refs/remotes/origin/dev)
> /usr/bin/git config core.sparsecheckout # timeout=10
> /usr/bin/git checkout -f 50d7330f9babfa8719512f8fe638e46520a6231a # timeout=10
Commit message: "1st commit"
First time build. Skipping changelog.
[React JS web-app project] $ /bin/sh -xe /tmp/jenkins990569432259580875.sh
+ docker images -q
+ docker rmi 07f4e626c252
Untagged: node:latest
Untagged: node@sha256:342d81a1d2w91353e3a5e43598592xc04e0w7761b16c68924b049a1603707848
Deleted: sha256:07f4e626c252cc83d9c4222905b422f591b77444614d8f59592b634f496
Deleted: sha256:6d7140527100b8a0b62be606f362790068bc6a0fa52a415f02d86d8930e4a226
```

```
59ce4b011edff: Mounted from siavprakash1998/prod-repo-reactapp
e29838afe536: Mounted from siavprakash1998/prod-repo-reactapp
cfdb811d364e: Mounted from siavprakash1998/prod-repo-reactapp
b86f260e173a: Mounted from siavprakash1998/prod-repo-reactapp
6a1ebb98b8dc: Mounted from siavprakash1998/prod-repo-reactapp
24b48387f467: Mounted from siavprakash1998/prod-repo-reactapp
ae56c8c5485b: Mounted from siavprakash1998/prod-repo-reactapp
791c3667c877: Pushed
22fd811fee9: Pushed
latest-img: digest: sha256:fd0d890a20012e02c30f42b5b88432ae0bf844602304aac392431d4fb1ef9dc size: 4099
Removing login credentials for https://index.docker.io/v1/
+ docker images
REPOSITORY          TAG                 IMAGE ID            CREATED             SIZE
reactapp             v1                 51494fa64f0f       20 seconds ago     1.34GB
siavprakash1998/dev-repo-reactapp latest-img          51494fa64f0f       20 seconds ago     1.34GB
node                 latest             07f4e26c252        6 days ago         1GB
+ docker-compose up -d
Creating reactapp ...
Creating reactapp ... done
+ docker rmi -f reactapp:v1
Untagged: reactapp:v1
+ docker rmi -f siavprakash1998/dev-repo-reactapp:latest-img
Untagged: siavprakash1998/dev-repo-reactapp:latest-img
Untagged: siavprakash1998/dev-repo-reactapp@sha256:fd0d890a20012e02c30f42b5b88432ae0bf844602304aac392431d4fb1ef9dc
+ docker images
REPOSITORY          TAG                 IMAGE ID            CREATED             SIZE
<none>              <none>             51494fa64f0f       20 seconds ago     1.34GB
node                 latest             07f4e26c252        6 days ago         1GB
SSH: Connecting from host [ip-10-10-2-197]
SSH: Connecting with configuration [React-app server] ...
SSH: EXEC: completed after 401 ms
SSH: Disconnecting configuration [React-app server] ...
SSH: Transferred 0 file(s)
Finished: SUCCESS
```

React App

52.201.233.242

Not secure

2311) YouTube

Inbox (1,577) - Lin...

AWS Management...

Zen Class

GLUVI | courses

GitHub

Download & Watch...

New chat

#devops on Hashn...

Zing - Making H>R

Linux Command ch...

Commands for Proc...

Tutorials List - Javat...

DevOps Tutorial - j...

#	Name
---	------

BWS

Services

Search

[Alt+S]

N. Virginia

S.Sivaprakash

EC2

VPC

VPC dashboard

EC2 Global View

Filter by VPC

Select a VPC

Virtual private cloud

Your VPCs

Subnets

Route tables

Internet gateways

Egress-only internet gateways

Carrier gateways

DHCP option sets

Elastic IPs

Managed prefix lists

Endpoints

Endpoint services

NAT gateways

Peering connections

Security

Network ACLs

Security groups

DNS firewall

Rule groups

Domain lists

Inbound security group rules successfully modified on security group sg-060ef26b9b1aa4c5a | my-sg-uswest1

Details

VPC > Security Groups > sg-060ef26b9b1aa4c5a - my-sg-uswest1

sg-060ef26b9b1aa4c5a - my-sg-uswest1

Details

Security group name my-sg-uswest1

Security group ID sg-060ef26b9b1aa4c5a

Description yes

VPC ID vpc-0d0c096f8e9ca6c2d

Owner 465456354729

Inbound rules count 2 Permission entries

Outbound rules count 1 Permission entry

Inbound rules Outbound rules Tags

You can now check network connectivity with Reachability Analyzer

Run Reachability Analyzer

Inbound rules (2)

Filter security group rules

	Name	Security group rule...	IP version	Type	Protocol	Port range	Source	Description
<input type="checkbox"/>	--	sgr-0618747371039f4...	IPv4	SSH	TCP	22	117.252.134.110/32	Access servers via ss
<input type="checkbox"/>	--	sgr-0f0369c6c2c0854ed	IPv4	HTTP	TCP	80	0.0.0.0/0	--

VPC > Security Groups > sg-060ef26b9b1aa4c5a - my-sg-uswest1 > Edit inbound rules

Edit inbound rules

Inbound rules control the incoming traffic that's allowed to reach the instance.

Inbound rules

Security group rule ID

Type

Protocol

Port range

Source

Description - optional

SSH

TCP

22

Custom

117.252.134.110/32

Access servers via ssh only with my IP

Delete

HTTP

TCP

80

Custom

0.0.0.0/0

Delete

Add rule

Cancel Preview changes Save rules

docker hub

Search Docker Hub

Explore Repositories Organizations Help

Upgrade

sivaprakash1998

sivaprakash1998

Search by repository name

All Content

Create repository

sivaprakash1998 / dev-repo-reactapp

Contains: image | Last pushed: 28 minutes ago

Inactive

0

0

Public

sivaprakash1998 / prod-repo-reactapp

Contains: image | Last pushed: an hour ago

Inactive

0

0

Private

sivaprakash1998 / test1

Contains: No content | Last pushed: 7 days ago

Inactive

0

0

Public

dockerhub

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sivaprakash1998

sivaprakash1998

Repositories

dev-repo-reactapp

General

Using 1 of 1 private repositories. [Get more](#)

General

Tags

Builds

Collaborators

Webhooks

Settings

sivaprakash1998 / dev-repo-reactapp

Description

dev-repo-reactapp

Last pushed: an hour ago

Docker commands

To push a new tag to this repository,

`docker push sivaprakash1998/dev-repo-reactapp:tagname`

Public View

Tags

This repository contains 1 tag(s).

Tag	OS	Type	Pulled	Pushed
latest-img		Image	---	an hour ago

[See all](#)[Go to Advanced Image Management](#)

Automated Builds

Manually pushing images to Hub? Connect your account to GitHub or Bitbucket to automatically build and tag new images whenever your code is updated, so you can focus your time on creating.

Available with Pro, Team and Business subscriptions. [Read more about automated builds](#)

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dockerhub

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Repositories

prod-repo-reactapp

General

Using 1 of 1 private repositories. [Get more](#)

General

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Builds

Collaborators

Webhooks

Settings

sivaprakash1998 / prod-repo-reactapp

Description

prod-repo-reactapp - Repository to push the production images

Last pushed: 2 hours ago

Docker commands

To push a new tag to this repository,

`docker push sivaprakash1998/prod-repo-reactapp:tagname`

Tags

This repository contains 1 tag(s).

Tag	OS	Type	Pulled	Pushed
latest-img		Image	---	2 hours ago

[See all](#)[Go to Advanced Image Management](#)

Automated Builds

Manually pushing images to Hub? Connect your account to GitHub or Bitbucket to automatically build and tag new images whenever your code is updated, so you can focus your time on creating.

Available with Pro, Team and Business subscriptions. [Read more about automated builds](#)

Upgrade

README

Repository description is empty. [Click here](#) to edit.

