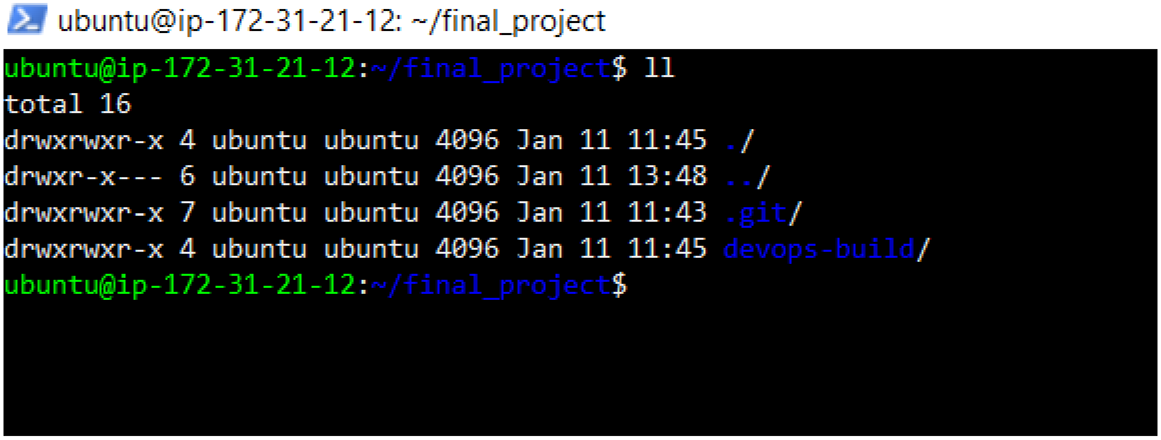
Final Project

Application Deployment

(Deploy the given react application to a production ready state)

Application:

- Clone :
    - git clone https://github.com/sriram-R-krishnan/devops-build

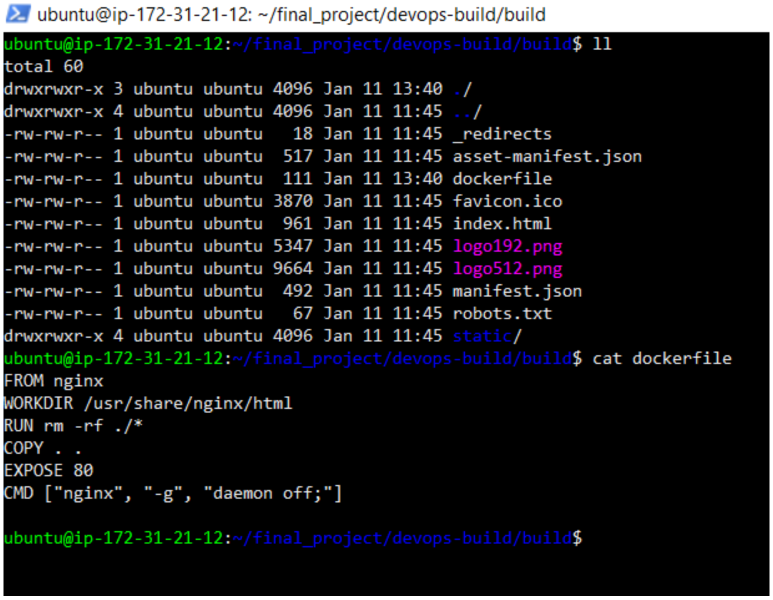


ubuntu@ip-172-31-21-12: ~/final_project

```
ubuntu@ip-172-31-21-12:~/final_project$ ll
total 16
drwxrwxr-x 4 ubuntu ubuntu 4096 Jan 11 11:45 ./
drwxr-x--- 6 ubuntu ubuntu 4096 Jan 11 13:48 ../
drwxrwxr-x 7 ubuntu ubuntu 4096 Jan 11 11:43 .git/
drwxrwxr-x 4 ubuntu ubuntu 4096 Jan 11 11:45 devops-build/
ubuntu@ip-172-31-21-12:~/final_project$
```

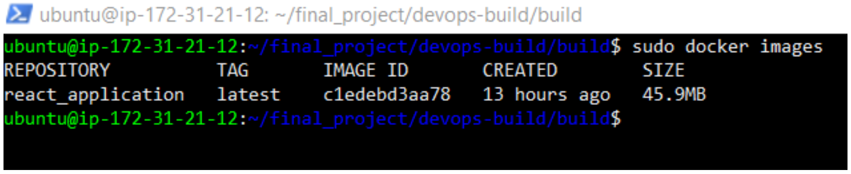
Docker :

- Dockerize the application by creating a Dockerfile
    - sudo docker build -t react_application .
    - sudo docker images



ubuntu@ip-172-31-21-12: ~/final_project/devops-build/build

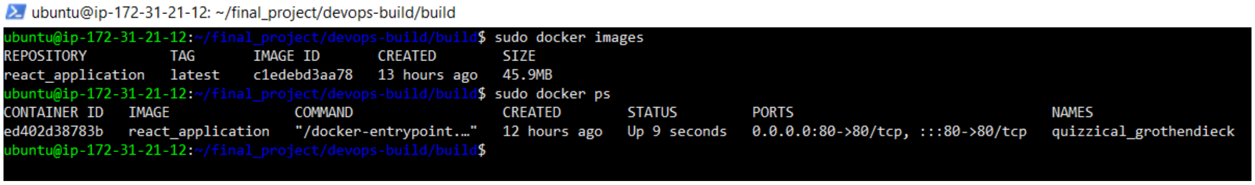
```
ubuntu@ip-172-31-21-12:~/final_project/devops-build/build$ ll
total 60
drwxrwxr-x 3 ubuntu ubuntu 4096 Jan 11 13:40 ./
drwxrwxr-x 4 ubuntu ubuntu 4096 Jan 11 11:45 ../
-rw-rw-r-- 1 ubuntu ubuntu   18 Jan 11 11:45 _redirects
-rw-rw-r-- 1 ubuntu ubuntu  517 Jan 11 11:45 asset-manifest.json
-rw-rw-r-- 1 ubuntu ubuntu  111 Jan 11 13:40 dockerfile
-rw-rw-r-- 1 ubuntu ubuntu 3870 Jan 11 11:45 favicon.ico
-rw-rw-r-- 1 ubuntu ubuntu  961 Jan 11 11:45 index.html
-rw-rw-r-- 1 ubuntu ubuntu 5347 Jan 11 11:45 logo192.png
-rw-rw-r-- 1 ubuntu ubuntu 9664 Jan 11 11:45 logo512.png
-rw-rw-r-- 1 ubuntu ubuntu  492 Jan 11 11:45 manifest.json
-rw-rw-r-- 1 ubuntu ubuntu   67 Jan 11 11:45 robots.txt
drwxrwxr-x 4 ubuntu ubuntu 4096 Jan 11 11:45 static/
ubuntu@ip-172-31-21-12:~/final_project/devops-build/build$ cat dockerfile
FROM nginx
WORKDIR /usr/share/nginx/html
RUN rm -rf ./*
COPY . .
EXPOSE 80
CMD ["nginx", "-g", "daemon off;"]

ubuntu@ip-172-31-21-12:~/final_project/devops-build/build$
```



ubuntu@ip-172-31-21-12: ~/final_project/devops-build/build

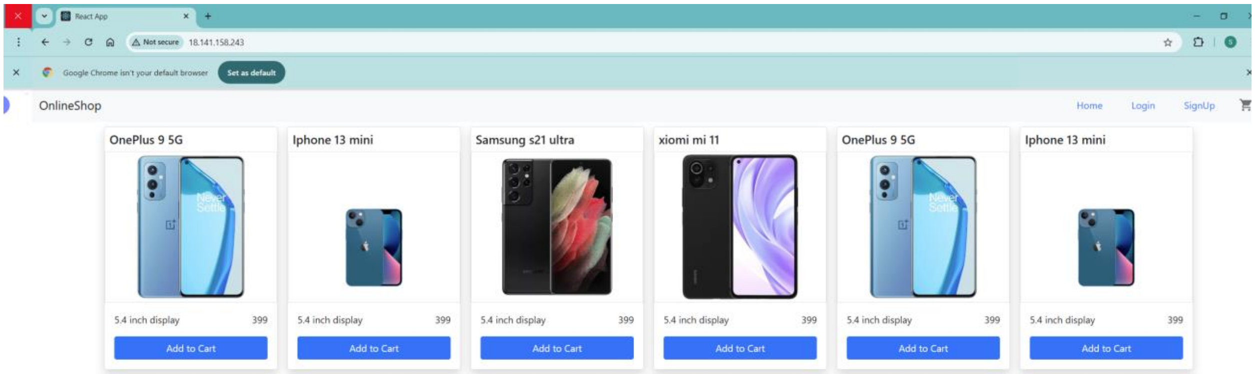
```
ubuntu@ip-172-31-21-12:~/final_project/devops-build/build$ sudo docker images
REPOSITORY          TAG       IMAGE ID       CREATED         SIZE
react_application   latest    c1edebd3aa78   13 hours ago    45.9MB
ubuntu@ip-172-31-21-12:~/final_project/devops-build/build$
```

- Run the application in port 80 [HTTP]
  - sudo docker run -dit -p 80:80 react_ application
  - http://18.141.158.243:80

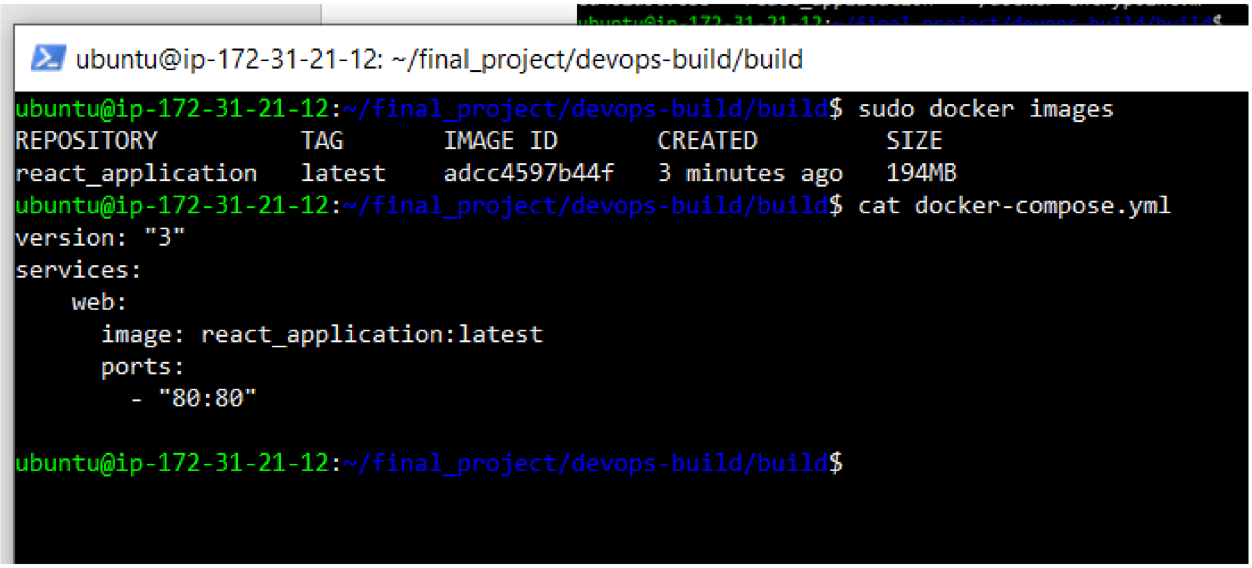


ubuntu@ip-172-31-21-12: ~/final_project/devops-build/build

```
ubuntu@ip-172-31-21-12:~/final_project/devops-build/build$ sudo docker images
REPOSITORY          TAG       IMAGE ID       CREATED        SIZE
react_application   latest    c1edebd3aa78   13 hours ago   45.9MB
ubuntu@ip-172-31-21-12:~/final_project/devops-build/build$ sudo docker ps
CONTAINER ID   IMAGE               COMMAND                  CREATED        STATUS         PORTS                               NAMES
ed402d38783b   react_application   "/docker-entrypoint.…"   12 hours ago   Up 9 seconds   0.0.0.0:80->80/tcp, :::80->80/tcp   quizzical_grothendieck
ubuntu@ip-172-31-21-12:~/final_project/devops-build/build$
```



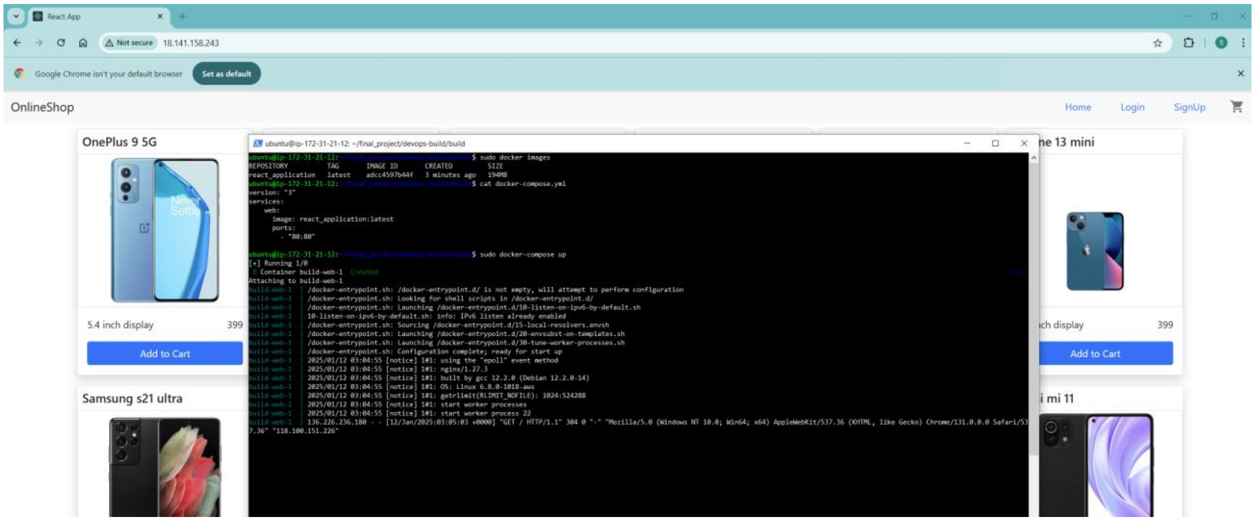
- Create Docker compose file to use the above image
  - vi docker-compose.yml



ubuntu@ip-172-31-21-12: ~/final_project/devops-build/build

```
ubuntu@ip-172-31-21-12:~/final_project/devops-build/build$ sudo docker images
REPOSITORY          TAG       IMAGE ID       CREATED         SIZE
react_application   latest    adcc4597b44f   3 minutes ago   194MB
ubuntu@ip-172-31-21-12:~/final_project/devops-build/build$ cat docker-compose.yml
version: "3"
services:
    web:
      image: react_application:latest
      ports:
        - "80:80"

ubuntu@ip-172-31-21-12:~/final_project/devops-build/build$
```

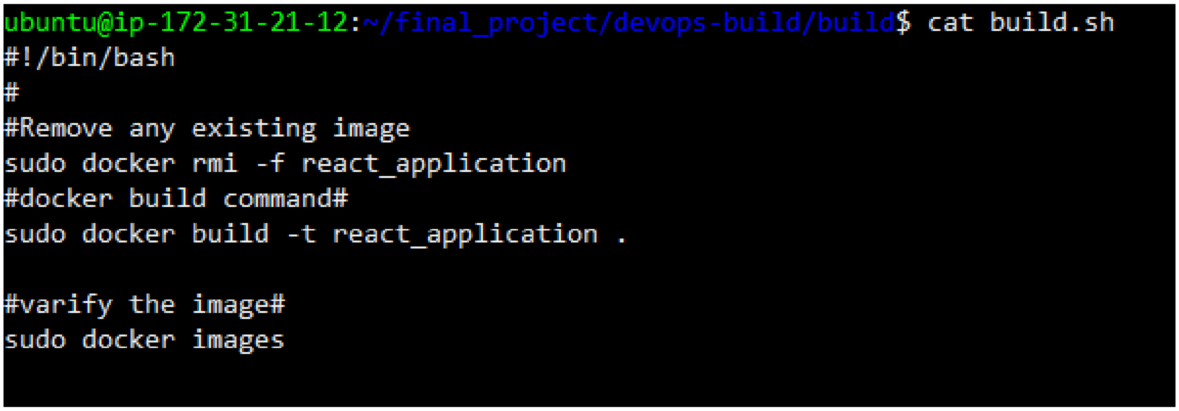
- sudo docker-compose up



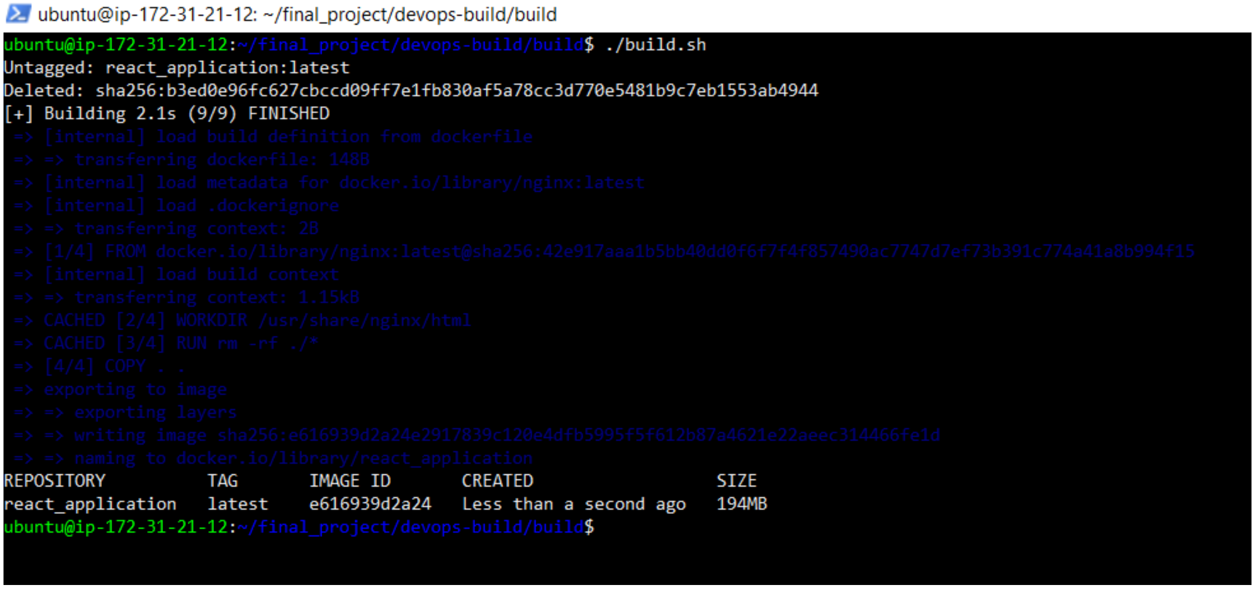
```
ubuntu@ip-172-31-21-12:~/final_project/devops-build/build$ sudo docker images
REPOSITORY          TAG       IMAGE ID       CREATED         SIZE
react_application   latest    adcc4597b44f   3 minutes ago   194MB
ubuntu@ip-172-31-21-12:~/final_project/devops-build/build$ cat docker-compose.yml
version: "3"
services:
    web:
      image: react_application:latest
      ports:
        - "80:80"

ubuntu@ip-172-31-21-12:~/final_project/devops-build/build$ sudo docker-compose up
[+] Running 1/0
 ✔ Container build-web-1  Created
Attaching to build-web-1
build-web-1  | /docker-entrypoint.sh: /docker-entrypoint.d/ is not empty, will attempt to perform configuration
build-web-1  | /docker-entrypoint.sh: Looking for shell scripts in /docker-entrypoint.d/
build-web-1  | /docker-entrypoint.sh: Launching /docker-entrypoint.d/10-listen-on-ipv6-by-default.sh
build-web-1  | 10-listen-on-ipv6-by-default.sh: info: IPv6 listen already enabled
build-web-1  | /docker-entrypoint.sh: Sourcing /docker-entrypoint.d/15-local-resolvers.envsh
build-web-1  | /docker-entrypoint.sh: Launching /docker-entrypoint.d/20-envsubst-on-templates.sh
build-web-1  | /docker-entrypoint.sh: Launching /docker-entrypoint.d/30-tune-worker-processes.sh
build-web-1  | /docker-entrypoint.sh: Configuration complete; ready for start up
build-web-1  | 2025/01/12 03:04:55 [notice] 1#1: using the "epoll" event method
build-web-1  | 2025/01/12 03:04:55 [notice] 1#1: nginx/1.27.3
build-web-1  | 2025/01/12 03:04:55 [notice] 1#1: built by gcc 12.2.0 (Debian 12.2.0-14)
build-web-1  | 2025/01/12 03:04:55 [notice] 1#1: OS: Linux 6.8.0-1018-aws
build-web-1  | 2025/01/12 03:04:55 [notice] 1#1: getrlimit(RLIMIT_NOFILE): 1024:524288
build-web-1  | 2025/01/12 03:04:55 [notice] 1#1: start worker processes
build-web-1  | 2025/01/12 03:04:55 [notice] 1#1: start worker process 22
build-web-1  | 136.226.236.180 - - [12/Jan/2025:03:05:03 +0000] "GET / HTTP/1.1" 304 0 "-" "Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/131.0.0.0 Safari/53
7.36" "118.100.151.226"
```

Bash Scripting

- build.sh for building docker images
  - remove existing image
  - build the image
  - verify the image

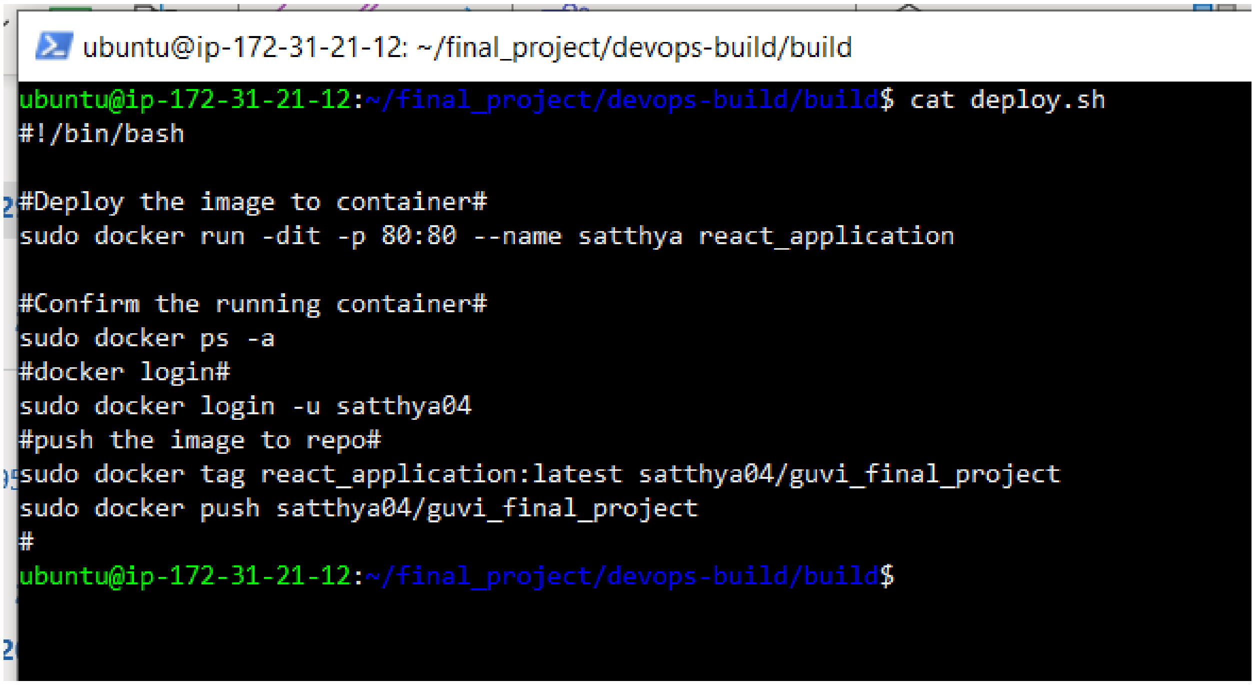


```
ubuntu@ip-172-31-21-12:~/final_project/devops-build/build$ cat build.sh
#!/bin/bash
#
#Remove any existing image
sudo docker rmi -f react_application
#docker build command#
sudo docker build -t react_application .

#varify the image#
sudo docker images
```

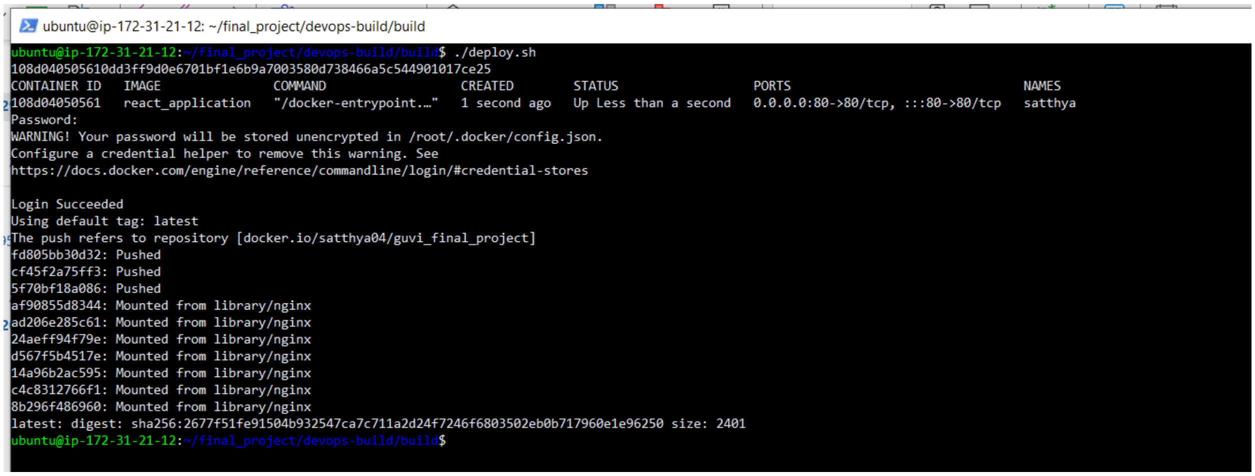


```
ubuntu@ip-172-31-21-12:~/final_project/devops-build/build$ ./build.sh
Untagged: react_application:latest
Deleted: sha256:b3ed0e96fc627cbccd09ff7e1fb830af5a78cc3d770e5481b9c7eb1553ab4944
[+] Building 2.1s (9/9) FINISHED
 => [internal] load build definition from dockerfile
 => => transferring dockerfile: 148B
 => [internal] load metadata for docker.io/library/nginx:latest
 => [internal] load .dockerignore
 => => transferring context: 2B
 => [1/4] FROM docker.io/library/nginx:latest@sha256:42e917aaa1b5bb40dd0f6f7f4f857490ac7747d7ef73b391c774a41a8b994f15
 => [internal] load build context
 => => transferring context: 1.15kB
 => CACHED [2/4] WORKDIR /usr/share/nginx/html
 => CACHED [3/4] RUN rm -rf ./*
 => [4/4] COPY . .
 => exporting to image
 => => exporting layers
 => => writing image sha256:e616939d2a24e2917839c120e4dfb5995f5f612b87a4621e22aeec314466fe1d
 => => naming to docker.io/library/react_application
REPOSITORY          TAG       IMAGE ID       CREATED                  SIZE
react_application   latest    e616939d2a24   Less than a second ago   194MB
ubuntu@ip-172-31-21-12:~/final_project/devops-build/build$
```

- deploy.sh for deploying the image to server
  - login to docker hub
  - deploy the container
  - verify the container
  - upload the image to docker hub

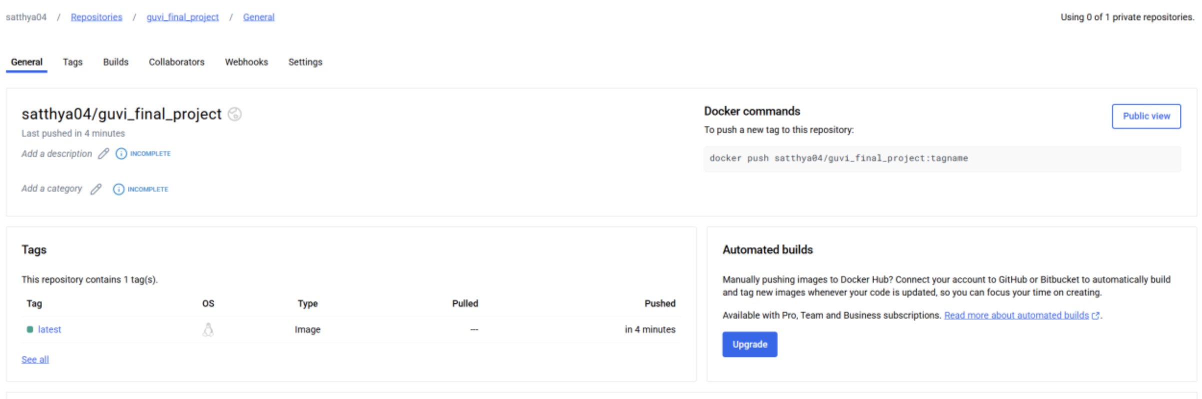


```
ubuntu@ip-172-31-21-12:~/final_project/devops-build/build$ cat deploy.sh
#!/bin/bash

#Deploy the image to container#
sudo docker run -dit -p 80:80 --name satthya react_application

#Confirm the running container#
sudo docker ps -a
#docker login#
sudo docker login -u satthya04
#push the image to repo#
sudo docker tag react_application:latest satthya04/guvi_final_project
sudo docker push satthya04/guvi_final_project
#
ubuntu@ip-172-31-21-12:~/final_project/devops-build/build$
```



ubuntu@ip-172-31-21-12: ~/final_project/devops-build/build

```
ubuntu@ip-172-31-21-12:~/final_project/devops-build/build$ ./deploy.sh
108d040505610dd3ff9d0e6701bf1e6b9a7003580d738466a5c544901017ce25
CONTAINER ID   IMAGE               COMMAND                  CREATED         STATUS                  PORTS                              NAMES
108d04050561   react_application   "/docker-entrypoint.…"   1 second ago    Up Less than a second   0.0.0.0:80->80/tcp, :::80->80/tcp   satthya
Password:
WARNING! Your password will be stored unencrypted in /root/.docker/config.json.
Configure a credential helper to remove this warning. See
https://docs.docker.com/engine/reference/commandline/login/#credential-stores

Login Succeeded
Using default tag: latest
The push refers to repository [docker.io/satthya04/guvi_final_project]
fd805bb30d32: Pushed
cf45f2a75ff3: Pushed
5f70bf18a086: Pushed
af90855d8344: Mounted from library/nginx
ad206e285c61: Mounted from library/nginx
24aeff94f79e: Mounted from library/nginx
d567f5b4517e: Mounted from library/nginx
14a96b2ac595: Mounted from library/nginx
c4c8312766f1: Mounted from library/nginx
8b296f486960: Mounted from library/nginx
latest: digest: sha256:2677f51fe91504b932547ca7c711a2d24f7246f6803502eb0b717960e1e96250 size: 2401
ubuntu@ip-172-31-21-12:~/final_project/devops-build/build$
```



satthya04 / Repositories / guvi_final_project / General

Using 0 of 1 private repositories.

satthya04/guvi_final_project

Last pushed in 4 minutes

Add a description INCOMPLETE

Add a category INCOMPLETE

Docker commands

To push a new tag to this repository:

```
docker push satthya04/guvi_final_project:tagname
```

Tags

This repository contains 1 tag(s).

Tag	OS	Type	Pulled	Pushed
latest		Image	—	in 4 minutes

See all

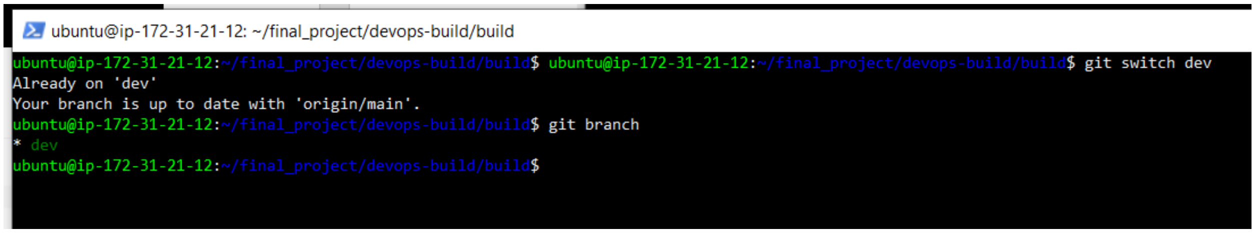
Automated builds

Manually pushing images to Docker 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.

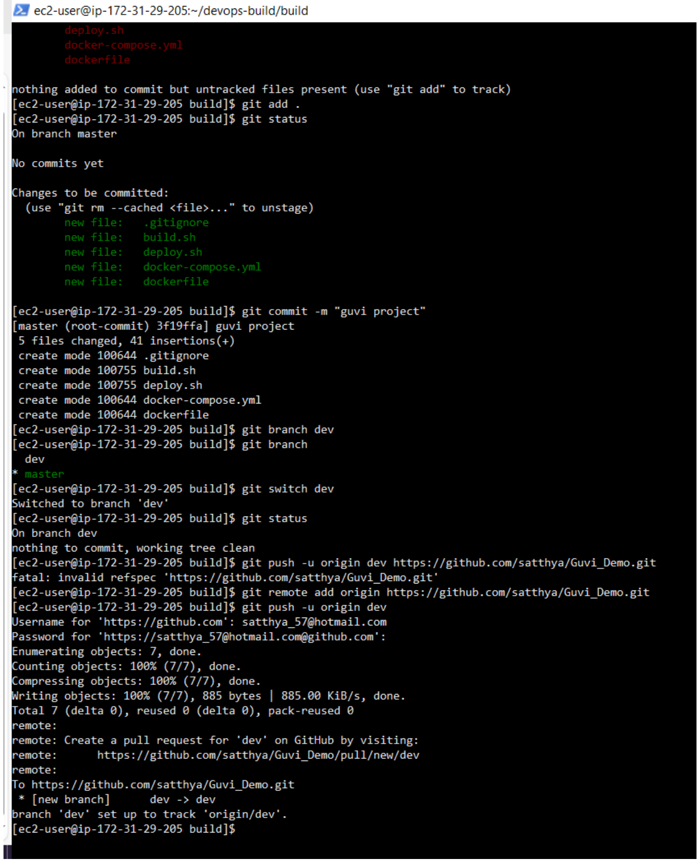
Version Control

- push the code to github to dev branch (use .dockerignore & .gitignore files)
  - git branch -M dev
  - git switch dev
  - git branch
  - git add .
  - git commit -m “final project”
  - git remote add origin https://github.com/satthya/Guvi_Demo.git
  - git push -u origin dev



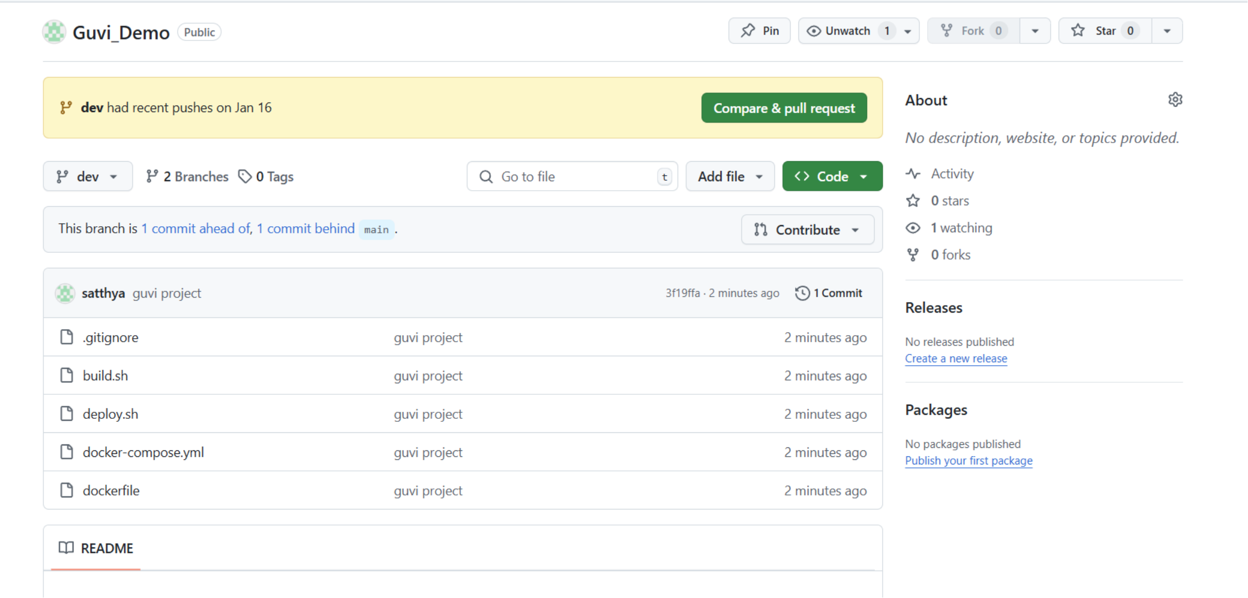
ubuntu@ip-172-31-21-12: ~/final_project/devops-build/build

```
ubuntu@ip-172-31-21-12:~/final_project/devops-build/build$ ubuntu@ip-172-31-21-12:~/final_project/devops-build/build$ git switch dev
Already on 'dev'
Your branch is up to date with 'origin/main'.
ubuntu@ip-172-31-21-12:~/final_project/devops-build/build$ git branch
* dev
ubuntu@ip-172-31-21-12:~/final_project/devops-build/build$
```



ec2-user@ip-172-31-29-205:~/devops-build/build

```
        deploy.sh
        docker-compose.yml
        dockerfile

nothing added to commit but untracked files present (use "git add" to track)
[ec2-user@ip-172-31-29-205 build]$ git add .
[ec2-user@ip-172-31-29-205 build]$ git status
On branch master

No commits yet

Changes to be committed:
  (use "git rm --cached <file>..." to unstage)
        new file:   .gitignore
        new file:   build.sh
        new file:   deploy.sh
        new file:   docker-compose.yml
        new file:   dockerfile

[ec2-user@ip-172-31-29-205 build]$ git commit -m "guvi project"
[master (root-commit) 3f19ffa] guvi project
 5 files changed, 41 insertions(+)
 create mode 100644 .gitignore
 create mode 100755 build.sh
 create mode 100755 deploy.sh
 create mode 100644 docker-compose.yml
 create mode 100644 dockerfile
[ec2-user@ip-172-31-29-205 build]$ git branch dev
[ec2-user@ip-172-31-29-205 build]$ git branch
  dev
* master
[ec2-user@ip-172-31-29-205 build]$ git switch dev
Switched to branch 'dev'
[ec2-user@ip-172-31-29-205 build]$ git status
On branch dev
nothing to commit, working tree clean
[ec2-user@ip-172-31-29-205 build]$ git push -u origin dev https://github.com/satthya/Guvi_Demo.git
fatal: invalid refspec 'https://github.com/satthya/Guvi_Demo.git'
[ec2-user@ip-172-31-29-205 build]$ git remote add origin https://github.com/satthya/Guvi_Demo.git
[ec2-user@ip-172-31-29-205 build]$ git push -u origin dev
Username for 'https://github.com': satthya_57@hotmail.com
Password for 'https://satthya_57@hotmail.com@github.com':
Enumerating objects: 7, done.
Counting objects: 100% (7/7), done.
Compressing objects: 100% (7/7), done.
Writing objects: 100% (7/7), 885 bytes | 885.00 KiB/s, done.
Total 7 (delta 0), reused 0 (delta 0), pack-reused 0
remote:
remote: Create a pull request for 'dev' on GitHub by visiting:
remote:      https://github.com/satthya/Guvi_Demo/pull/new/dev
remote:
To https://github.com/satthya/Guvi_Demo.git
 * [new branch]      dev -> dev
branch 'dev' set up to track 'origin/dev'.
[ec2-user@ip-172-31-29-205 build]$
```



dev had recent pushes on Jan 16

This branch is 1 commit ahead of, 1 commit behind `main`.

satthya guvi project 3f19ffa · 2 minutes ago 1 Commit

.gitignore	guvi project	2 minutes ago
build.sh	guvi project	2 minutes ago
deploy.sh	guvi project	2 minutes ago
docker-compose.yml	guvi project	2 minutes ago
dockerfile	guvi project	2 minutes ago

About

No description, website, or topics provided.

0 stars

1 watching

0 forks

Releases

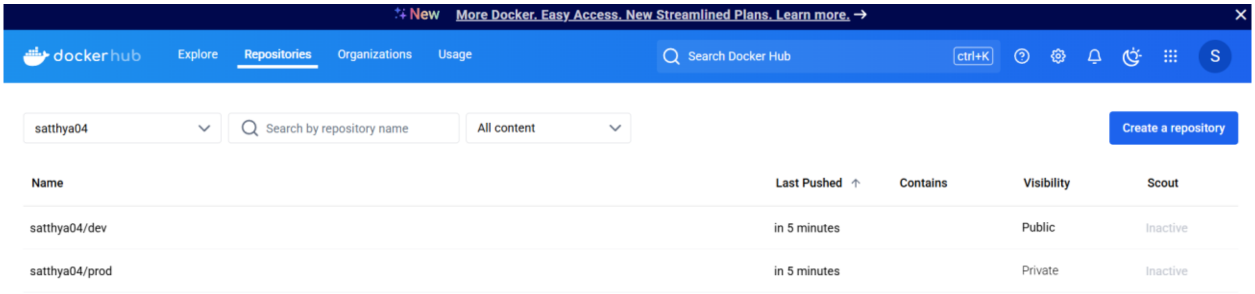
No releases published
Create a new release

Packages

No packages published
Publish your first package

Docker Hub

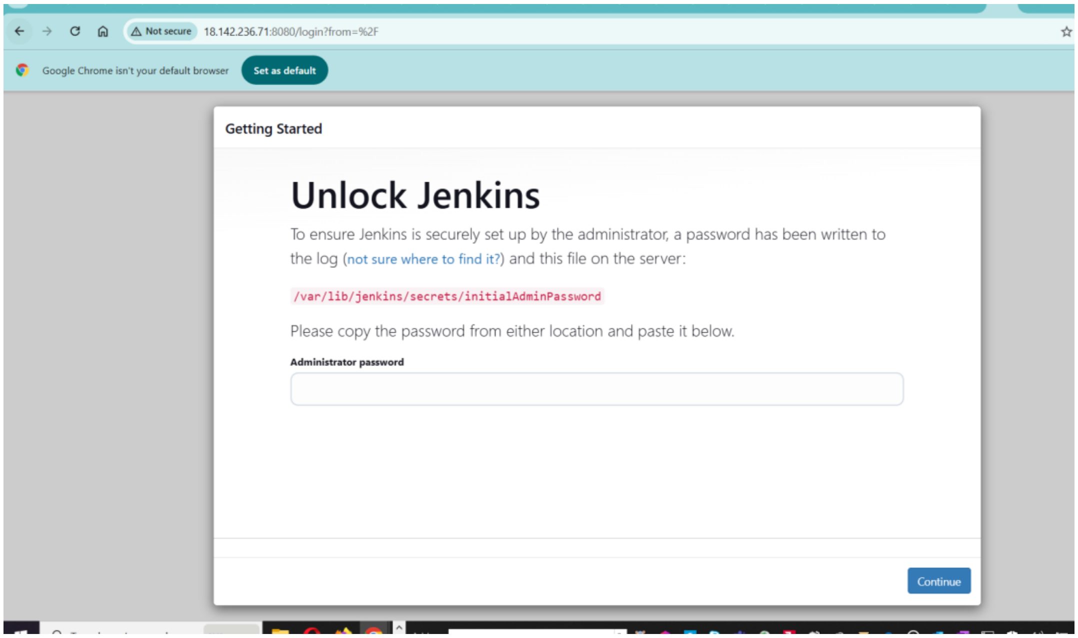
- Create 2 repos "dev" and "prod" to push images
  "prod" repo must be private and "dev" repo can be public



Name	Last Pushed	Contains	Visibility	Scout
satthya04/dev	in 5 minutes		Public	Inactive
satthya04/prod	in 5 minutes		Private	Inactive

Jenkins

- Login Page
- Enter the admin password and set new password.


Not secure
18.142.236.71:8080/login?from=%2F
Google Chrome isn't your default browser
Set as default
Continue

Getting Started

Unlock Jenkins

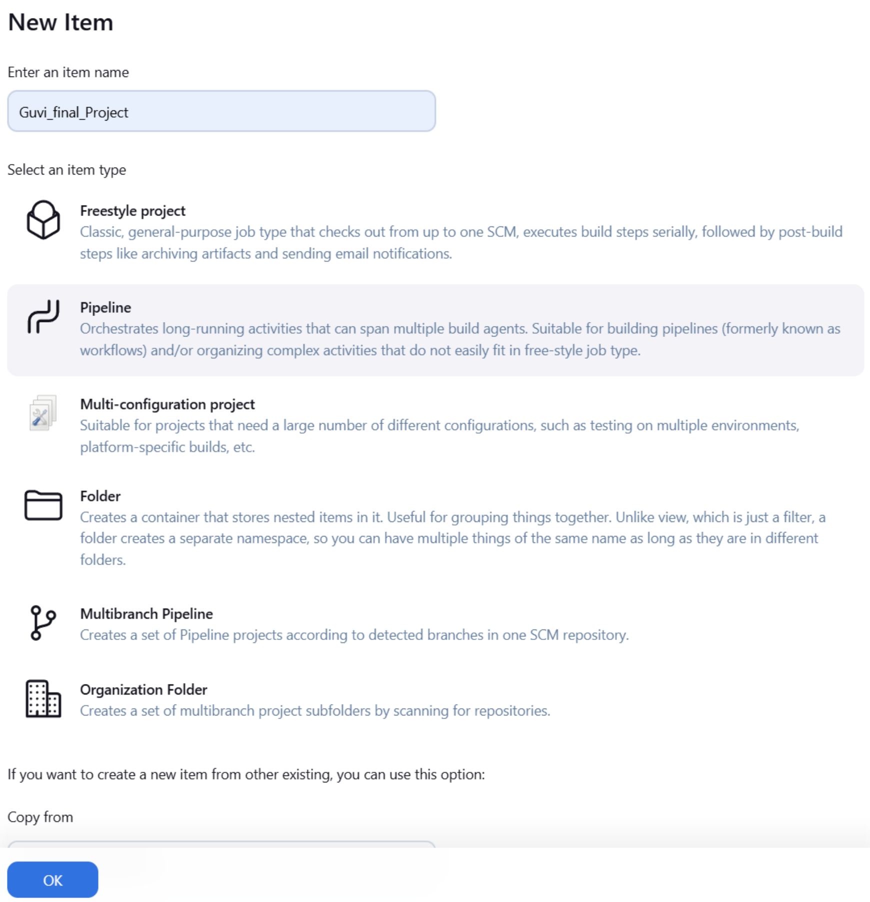
To ensure Jenkins is securely set up by the administrator, a password has been written to the log (not sure where to find it?) and this file on the server:

`/var/lib/jenkins/secrets/initialAdminPassword`

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

Administrator password

- Set up Jenkins Pipeline
- https://github.com/satthya/Guvi_Project.git



New Item

Enter an item name

Guvi_final_Project

Select an item type

Freestyle project
Classic, general-purpose job type that checks out from up to one SCM, executes build steps serially, followed by post-build steps like archiving artifacts and sending email notifications.

Pipeline
Orchestrates long-running activities that can span multiple build agents. Suitable for building pipelines (formerly known as workflows) and/or organizing complex activities that do not easily fit in free-style job type.

Multi-configuration project
Suitable for projects that need a large number of different configurations, such as testing on multiple environments, platform-specific builds, etc.

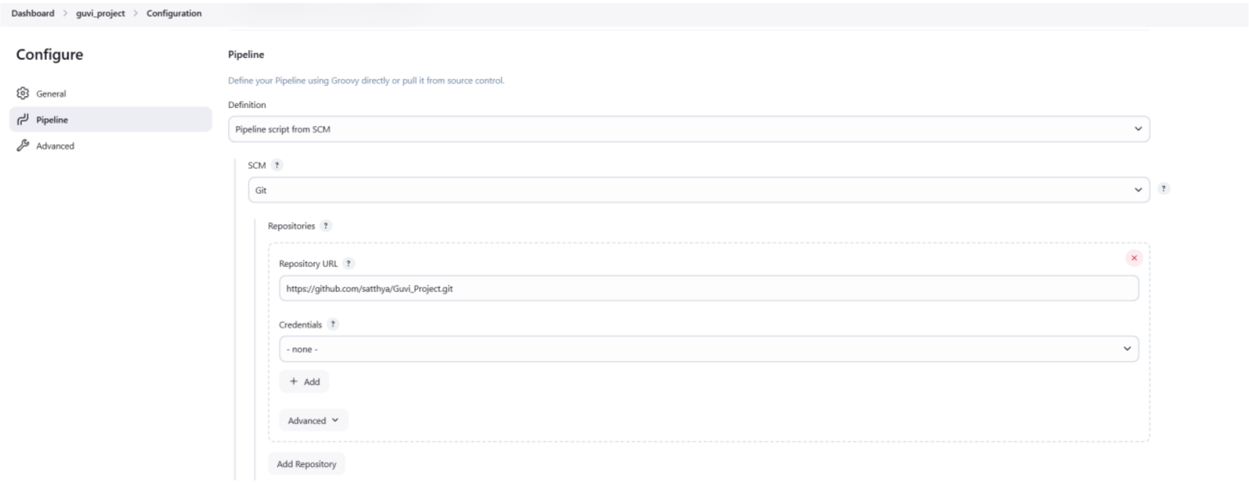
Folder
Creates a container that stores nested items in it. Useful for grouping things together. Unlike view, which is just a filter, a folder creates a separate namespace, so you can have multiple things of the same name as long as they are in different folders.

Multibranch Pipeline
Creates a set of Pipeline projects according to detected branches in one SCM repository.

Organization Folder
Creates a set of multibranch project subfolders by scanning for repositories.

If you want to create a new item from other existing, you can use this option:

Copy from



Configure

Pipeline

Define your Pipeline using Groovy directly or pull it from source control.

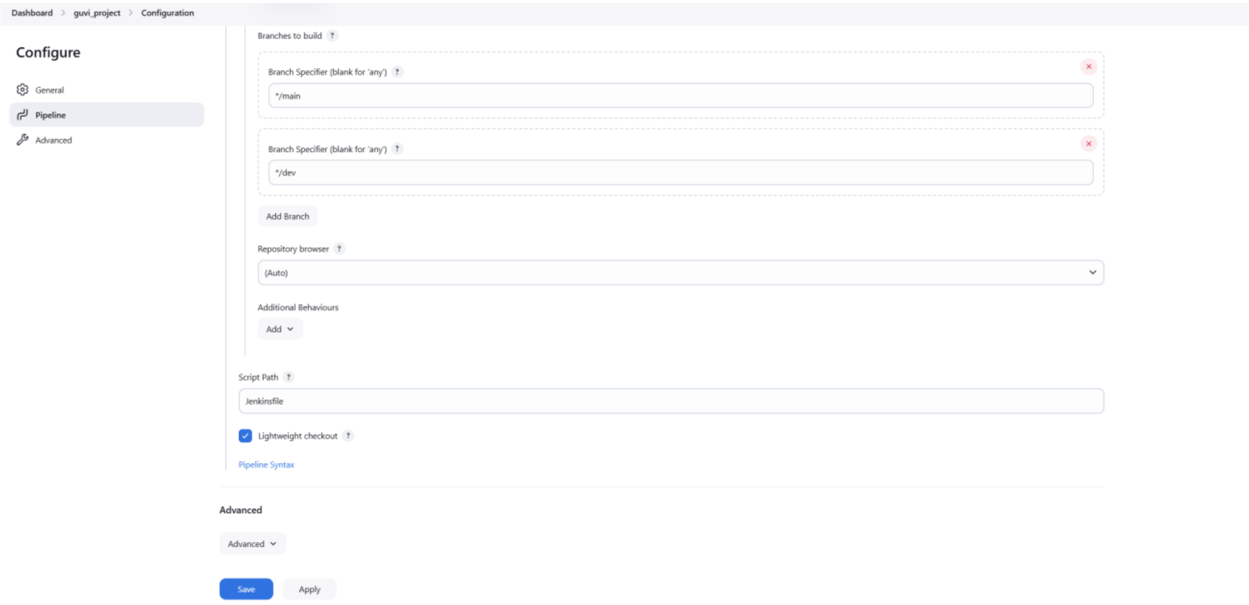
Definition: Pipeline script from SCM

SCM: Git

Repositories

Repository URL: https://github.com/satthya/Guvi_Project.git

Credentials: - none -



Dashboard > guvi_project > Configuration

Configure

General
Pipeline
Advanced

Branches to build ?

Branch Specifier (blank for 'any') ?

*/main

Branch Specifier (blank for 'any') ?

*/dev

Add Branch

Repository browser ?

(Auto)

Additional Behaviours

Add

Script Path ?

Jenkinsfile

☑ Lightweight checkout ?

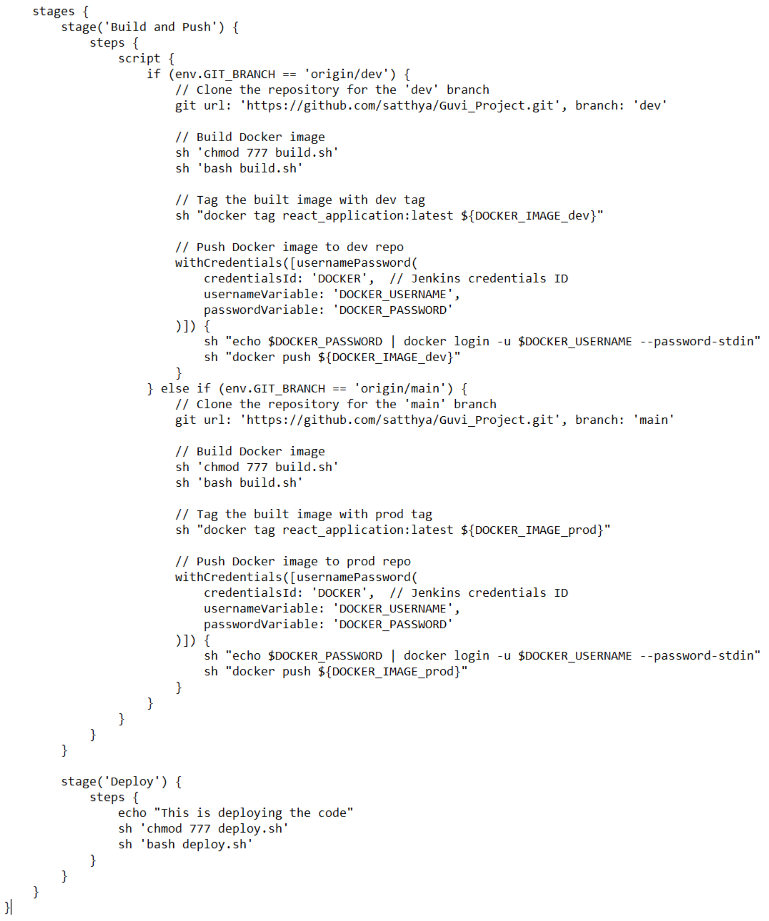
Pipeline Syntax

Advanced

Advanced

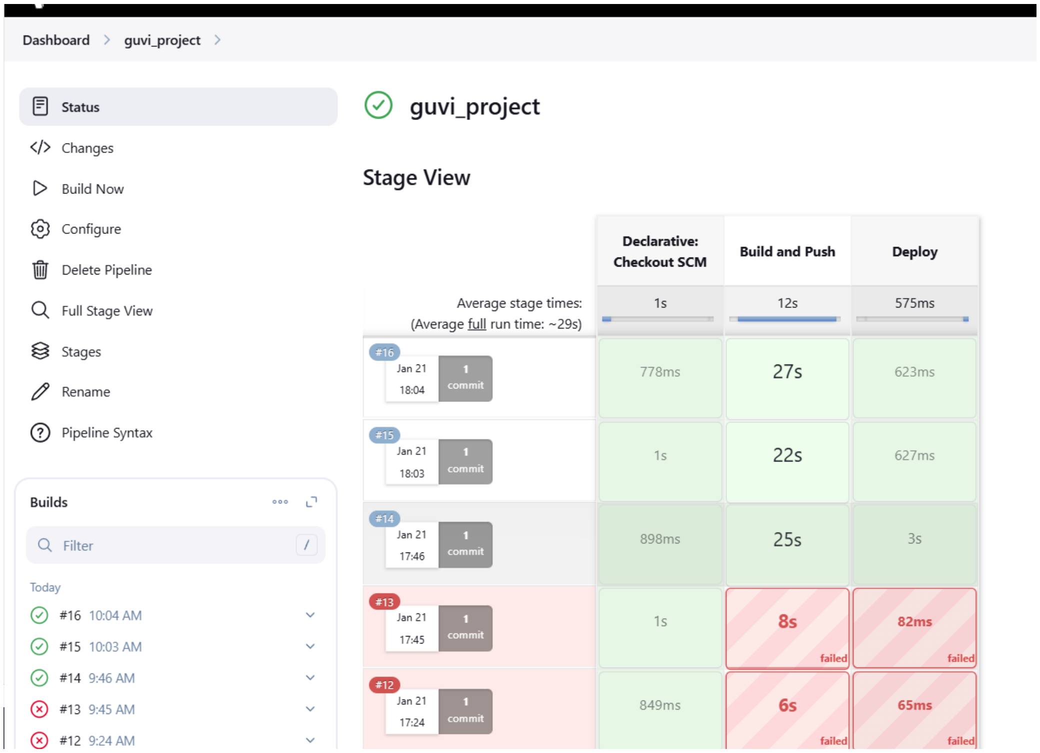
Save Apply

- Jenkin File (Groovy Language)



```
    stages {
        stage('Build and Push') {
            steps {
                script {
                    if (env.GIT_BRANCH == 'origin/dev') {
                        // Clone the repository for the 'dev' branch
                        git url: 'https://github.com/satthya/Guvi_Project.git', branch: 'dev'

                        // Build Docker image
                        sh 'chmod 777 build.sh'
                        sh 'bash build.sh'

                        // Tag the built image with dev tag
                        sh "docker tag react_application:latest ${DOCKER_IMAGE_dev}"

                        // Push Docker image to dev repo
                        withCredentials([usernamePassword(
                            credentialsId: 'DOCKER',  // Jenkins credentials ID
                            usernameVariable: 'DOCKER_USERNAME',
                            passwordVariable: 'DOCKER_PASSWORD'
                        )]) {
                            sh "echo $DOCKER_PASSWORD | docker login -u $DOCKER_USERNAME --password-stdin"
                            sh "docker push ${DOCKER_IMAGE_dev}"
                        }
                    } else if (env.GIT_BRANCH == 'origin/main') {
                        // Clone the repository for the 'main' branch
                        git url: 'https://github.com/satthya/Guvi_Project.git', branch: 'main'

                        // Build Docker image
                        sh 'chmod 777 build.sh'
                        sh 'bash build.sh'

                        // Tag the built image with prod tag
                        sh "docker tag react_application:latest ${DOCKER_IMAGE_prod}"

                        // Push Docker image to prod repo
                        withCredentials([usernamePassword(
                            credentialsId: 'DOCKER',  // Jenkins credentials ID
                            usernameVariable: 'DOCKER_USERNAME',
                            passwordVariable: 'DOCKER_PASSWORD'
                        )]) {
                            sh "echo $DOCKER_PASSWORD | docker login -u $DOCKER_USERNAME --password-stdin"
                            sh "docker push ${DOCKER_IMAGE_prod}"
                        }
                    }
                }
            }
        }

        stage('Deploy') {
            steps {
                echo "This is deploying the code"
                sh 'chmod 777 deploy.sh'
                sh 'bash deploy.sh'
            }
        }
    }
}
```

- Push to the dev repository for the dev branch.
- Push to the prod repository for the main branch.



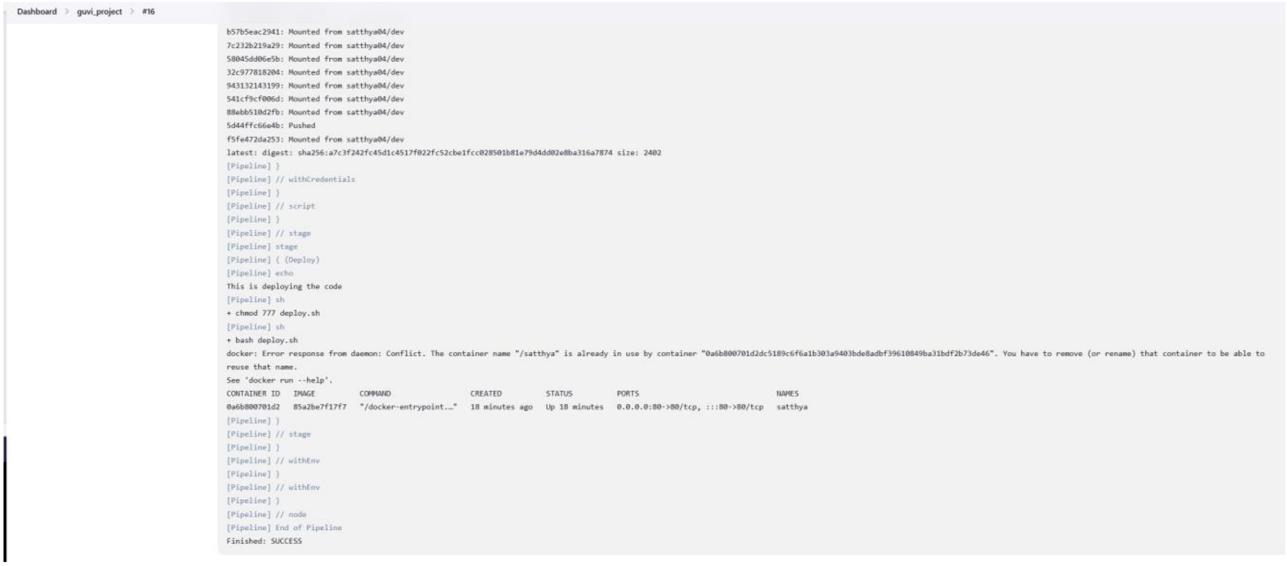
guvi_project

Stage View

	Declarative: Checkout SCM	Build and Push	Deploy
Average stage times: (Average full run time: ~29s)	1s	12s	575ms
#16 Jan 21 18:04 1 commit	778ms	27s	623ms
#15 Jan 21 18:03 1 commit	1s	22s	627ms
#14 Jan 21 17:46 1 commit	898ms	25s	3s
#13 Jan 21 17:45 1 commit	1s	8s failed	82ms failed
#12 Jan 21 17:24 1 commit	849ms	6s failed	65ms failed

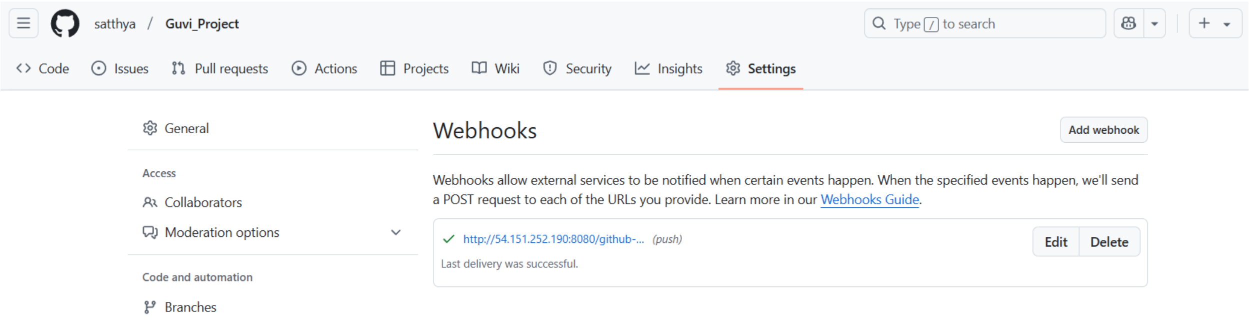
Today

✓ #16	10:04 AM
✓ #15	10:03 AM
✓ #14	9:46 AM
⊗ #13	9:45 AM
⊗ #12	9:24 AM



```
b57b5eac2941: Mounted from satthya04/dev
7c232b219a29: Mounted from satthya04/dev
58045dd06e5b: Mounted from satthya04/dev
32c977818204: Mounted from satthya04/dev
943132143199: Mounted from satthya04/dev
541cf9cf006d: Mounted from satthya04/dev
88ebb510d2fb: Mounted from satthya04/dev
5d44ffc66e4b: Pushed
f5fe472da253: Mounted from satthya04/dev
latest: digest: sha256:a7c3f242fc45d1c4517f022fc52cbe1fcc028501b81e79d4dd02e8ba316a7874 size: 2402
[Pipeline] }
[Pipeline] // withCredentials
[Pipeline] }
[Pipeline] // script
[Pipeline] }
[Pipeline] // stage
[Pipeline] stage
[Pipeline] { (Deploy)
[Pipeline] echo
This is deploying the code
[Pipeline] sh
+ chmod 777 deploy.sh
[Pipeline] sh
+ bash deploy.sh
docker: Error response from daemon: Conflict. The container name "/satthya" is already in use by container "0a6b800701d2dc5189c6f6a1b303a9403bde8adbf39610849ba31bdf2b73de46". You have to remove (or rename) that container to be able to
reuse that name.
See 'docker run --help'.
CONTAINER ID   IMAGE          COMMAND                  CREATED          STATUS          PORTS                                 NAMES
0a6b800701d2   85a2be7f17f7   "/docker-entrypoint.…"   18 minutes ago   Up 18 minutes   0.0.0.0:80->80/tcp, :::80->80/tcp   satthya
[Pipeline] }
[Pipeline] // stage
[Pipeline] }
[Pipeline] // withEnv
[Pipeline] }
[Pipeline] // withEnv
[Pipeline] }
[Pipeline] // node
[Pipeline] End of Pipeline
Finished: SUCCESS
```

- Configure auto build trigger.
  - Configure GitHub Webhook



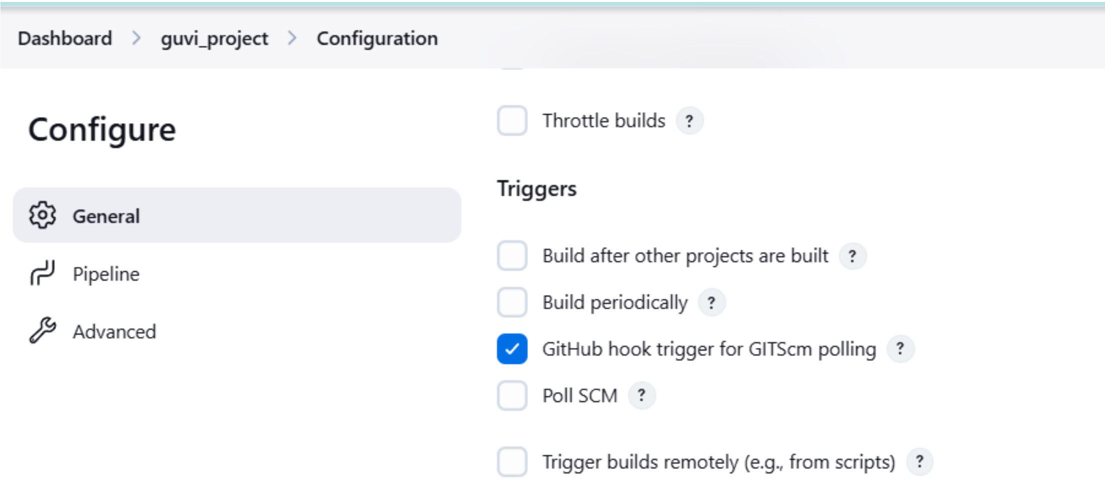
Webhooks

Webhooks allow external services to be notified when certain events happen. When the specified events happen, we'll send a POST request to each of the URLs you provide. Learn more in our Webhooks Guide.

✓ http://54.151.252.190:8080/github-... *(push)*

Last delivery was successful.

- Enable Jenkin (GitHub hook trigger for GITScm polling)



□ Throttle builds ?

Triggers

□ Build after other projects are built ?

□ Build periodically ?

☑ GitHub hook trigger for GITScm polling ?

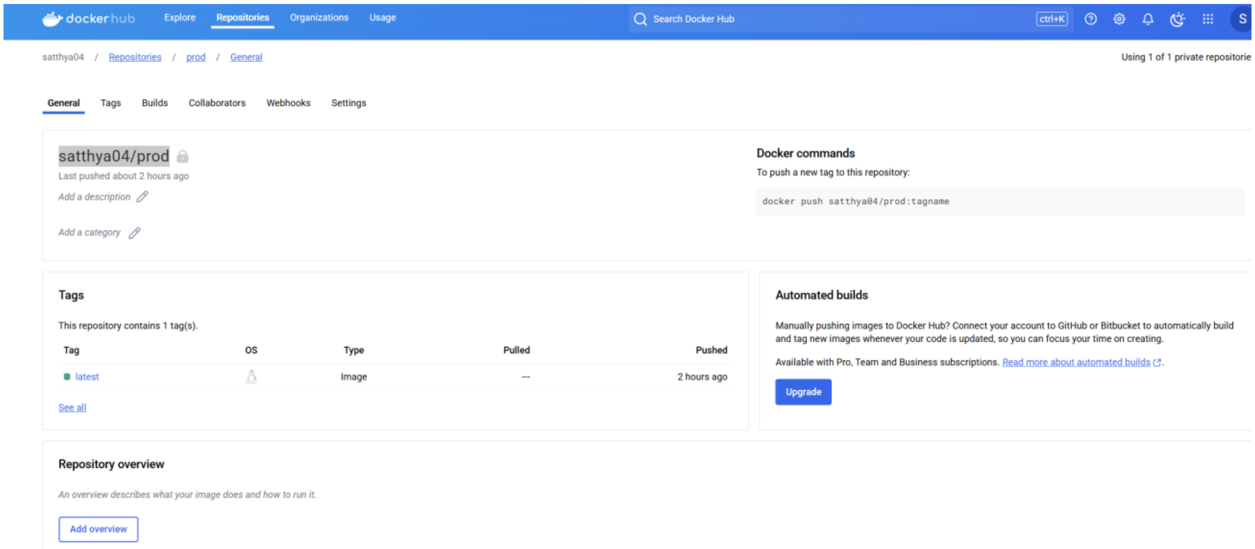
□ Poll SCM ?

□ Trigger builds remotely (e.g., from scripts) ?

My Docker Profile

https://hub.docker.com/u/satthya04

- satthya04/prod



Using 1 of 1 private repositorie

Last pushed about 2 hours ago

Docker commands

To push a new tag to this repository:

```
docker push satthya04/prod:tagname
```

Tags

This repository contains 1 tag(s).

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

Automated builds

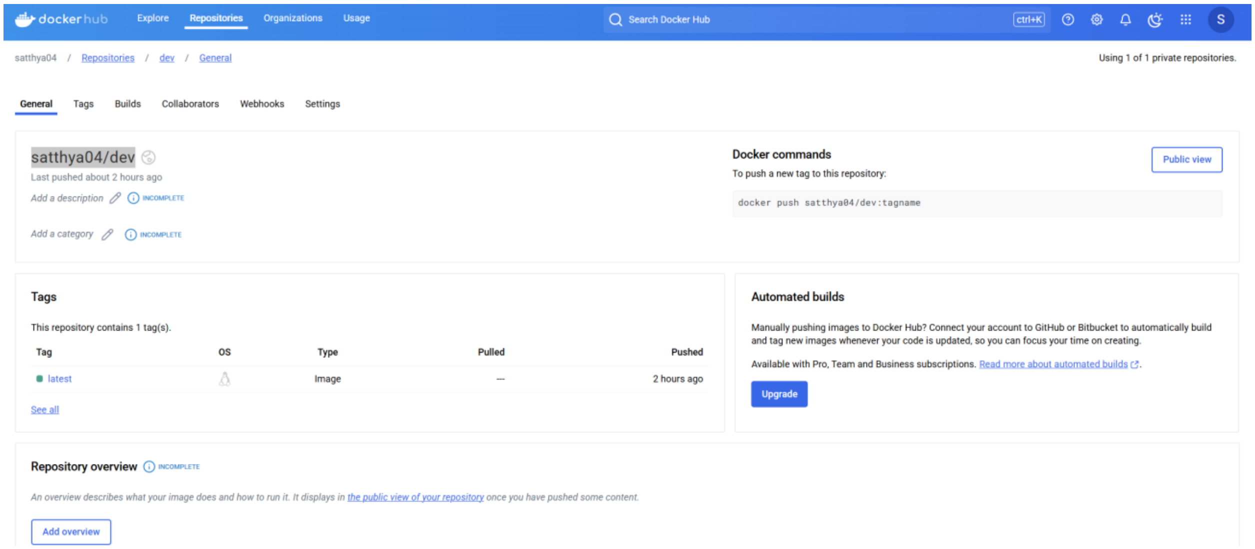
Manually pushing images to Docker Hub? Connect your account to GitHub or Bitbucket to automatically build and tag new images whenever your code is updated, so you can focus your time on creating.

Available with Pro, Team and Business subscriptions. Read more about automated builds.

Repository overview

An overview describes what your image does and how to run it.

- satthya04/dev



Using 1 of 1 private repositories.

Last pushed about 2 hours ago

Docker commands

To push a new tag to this repository:

```
docker push satthya04/dev:tagname
```

Tags

This repository contains 1 tag(s).

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

Automated builds

Manually pushing images to Docker 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.

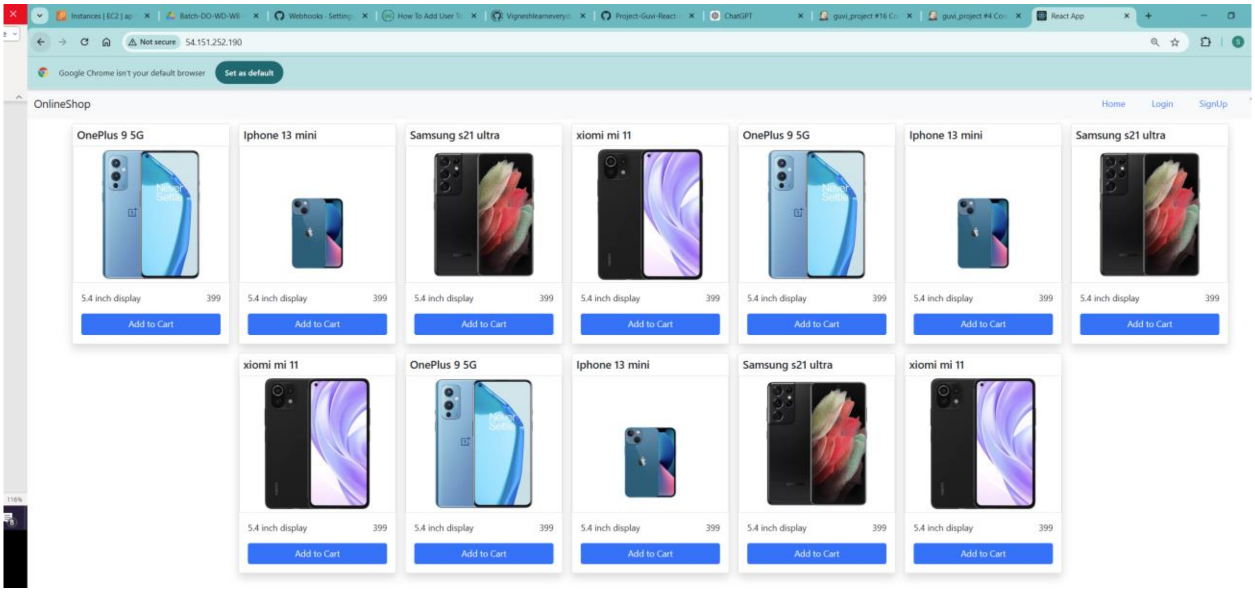
Available with Pro, Team and Business subscriptions. Read more about automated builds.

Repository overview

An overview describes what your image does and how to run it. It displays in the public view of your repository once you have pushed some content.

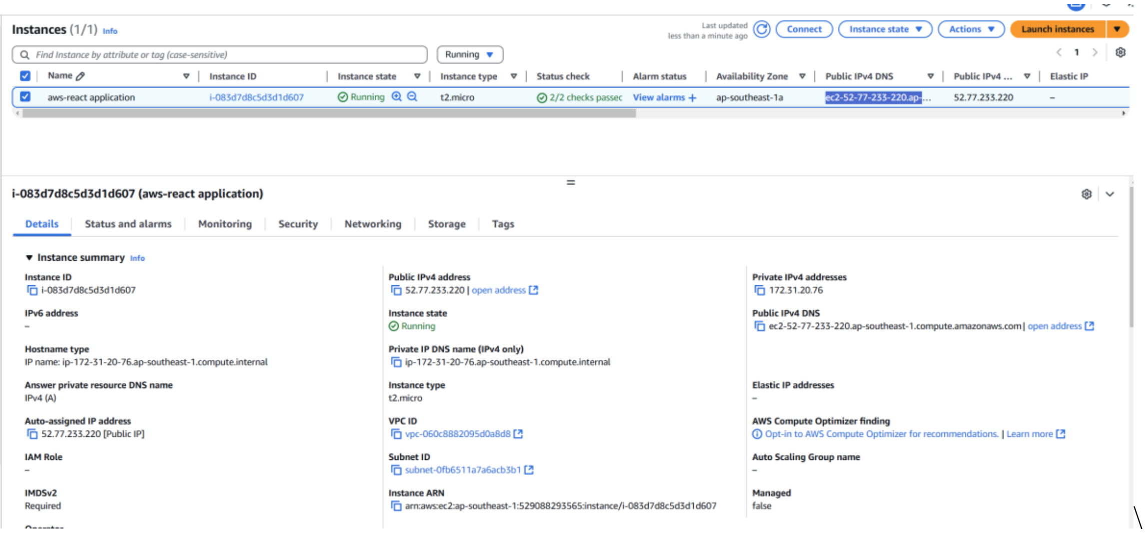
Deployed react application.

http://54.151.252.190:80



AWS

- Launch a t2.micro instance.
- Install Docker and Docker Compose on the instance.
- Configure security group (restrict login to server should be made only from my server)
- Clone the repo (https://github.com/satthya/Guvi_Project.git)
- run deploy.sh to start the application.



Instances (1/1) Info

Find Instance by attribute or tag (case-sensitive)

☑	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS	Public IPv4 ...	Elastic IP
☑	aws-react application	i-083d7d8c5d3d1d607	Running	t2.micro	2/2 checks passec	View alarms +	ap-southeast-1a	ec2-52-77-233-220.ap-...	52.77.233.220	–

i-083d7d8c5d3d1d607 (aws-react application)

▼ Instance summary Info

Instance ID
i-083d7d8c5d3d1d607

IPv6 address
–

Hostname type
IP name: ip-172-31-20-76.ap-southeast-1.compute.internal

Answer private resource DNS name
IPv4 (A)

Auto-assigned IP address
52.77.233.220 [Public IP]

IAM Role
–

IMDSv2
Required

Public IPv4 address
52.77.233.220 | open address

Instance state
Running

Private IP DNS name (IPv4 only)
ip-172-31-20-76.ap-southeast-1.compute.internal

Instance type
t2.micro

VPC ID
vpc-060c8882095d0a8d8

Subnet ID
subnet-0fb6511a7a6acb3b1

Instance ARN
arn:aws:ec2:ap-southeast-1:529088293565:instance/i-083d7d8c5d3d1d607

Private IPv4 addresses
172.31.20.76

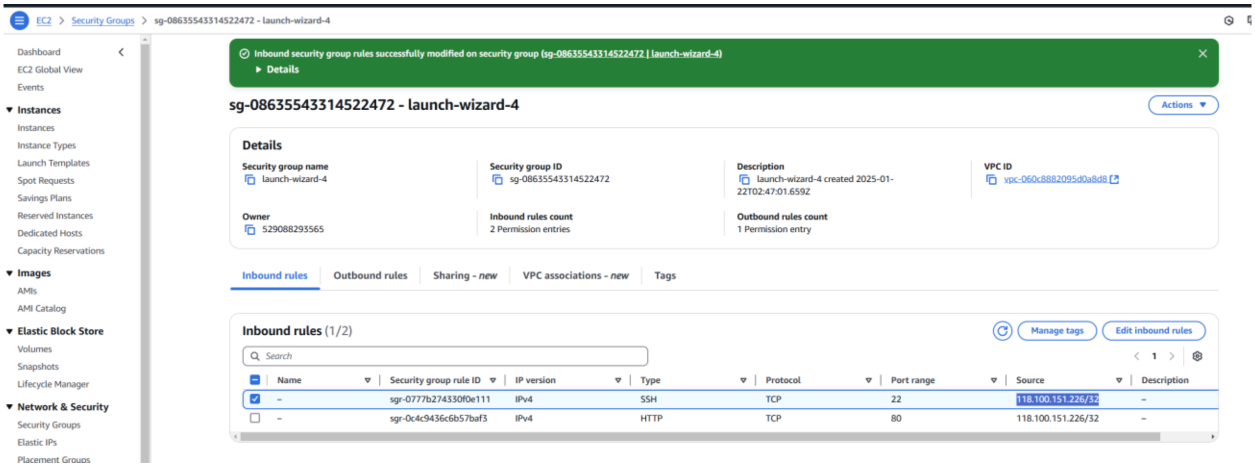
Public IPv4 DNS
ec2-52-77-233-220.ap-southeast-1.compute.amazonaws.com | open address

Elastic IP addresses
–

AWS Compute Optimizer finding
Opt-in to AWS Compute Optimizer for recommendations. | Learn more

Auto Scaling Group name
–

Managed
false



Inbound security group rules successfully modified on security group (sg-08635543314522472 | launch-wizard-4)

▸ Details

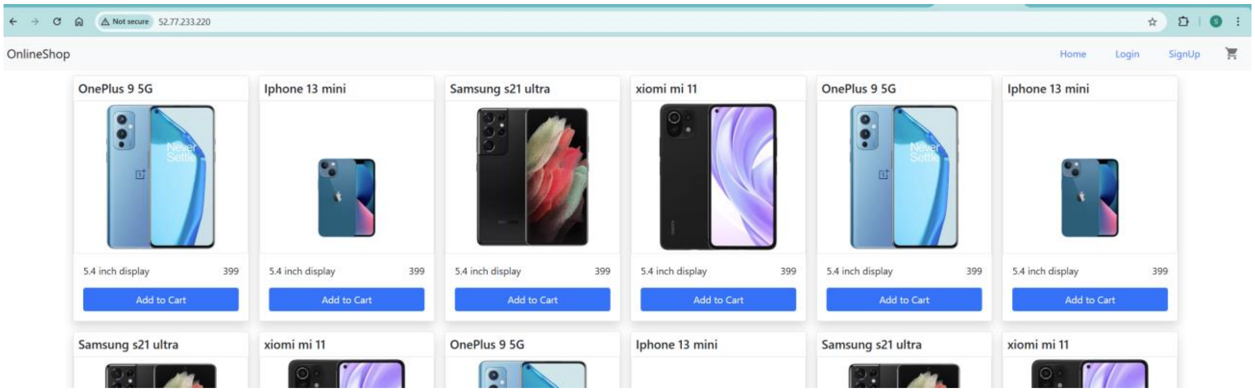
sg-08635543314522472 - launch-wizard-4

Details

Security group name	Security group ID	Description	VPC ID
launch-wizard-4	sg-08635543314522472	launch-wizard-4 created 2025-01-22T02:47:01.659Z	vpc-060c8882095d0a8d8
Owner	**Inbound rules count**	**Outbound rules count**	
529088293565	2 Permission entries	1 Permission entry	

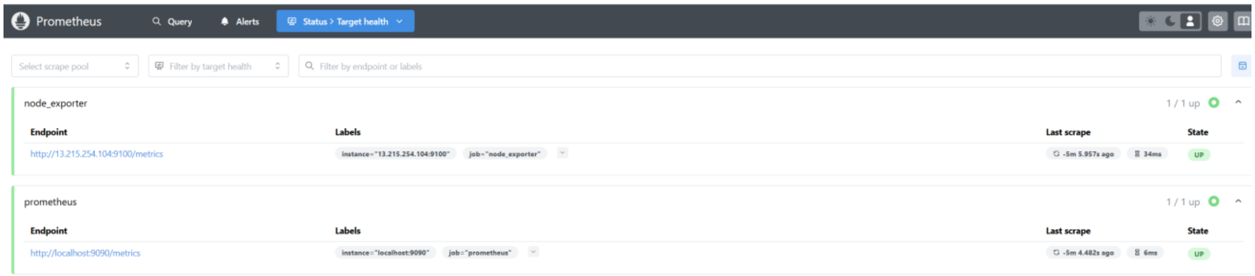
Inbound rules (1/2)

	Name	Security group rule ID	IP version	Type	Protocol	Port range	Source	Description
☑	–	sgr-0777b274330f0e111	IPv4	SSH	TCP	22	118.100.151.226/32	–
□	–	sgr-0c4c9436c6b57baf3	IPv4	HTTP	TCP	80	118.100.151.226/32	–



Monitoring

- Prometheus



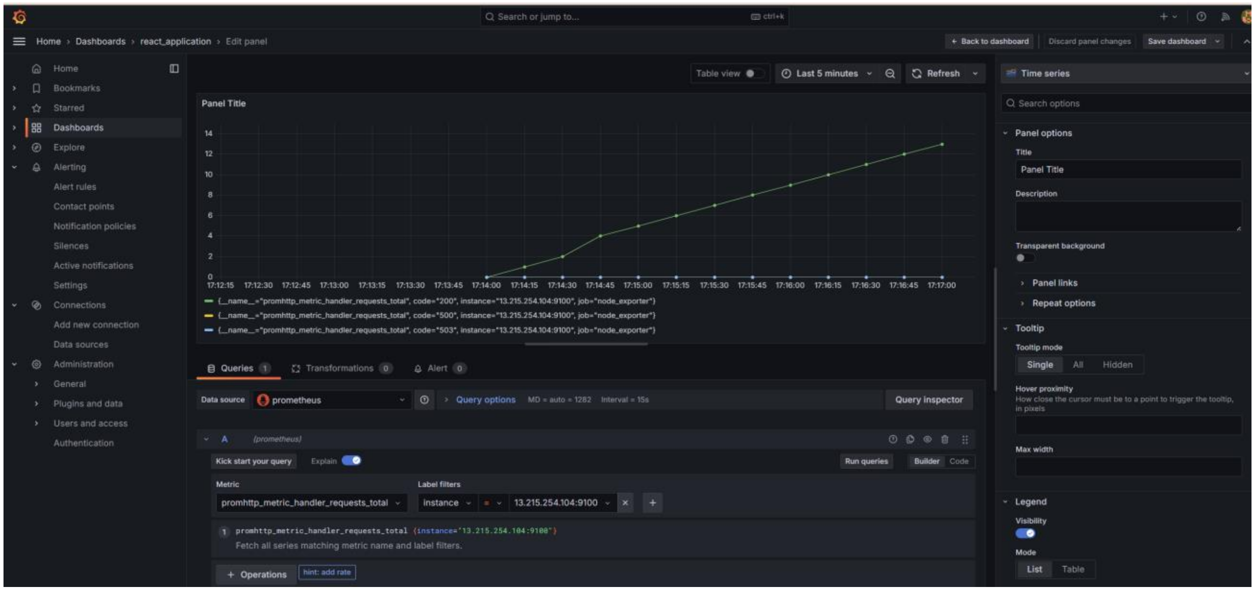
node_exporter 1 / 1 up

Endpoint	Labels	Last scrape	State
http://13.215.254.104:9100/metrics	instance="13.215.254.104:9100" job="node_exporter"	-5m 5.957s ago 34ms	UP

prometheus 1 / 1 up

Endpoint	Labels	Last scrape	State
http://localhost:9090/metrics	instance="localhost:9090" job="prometheus"	-5m 4.482s ago 6ms	UP

- Grafana



🟩 {__name__="promhttp_metric_handler_requests_total", code="200", instance="13.215.254.104:9100", job="node_exporter"}
🟨 {__name__="promhttp_metric_handler_requests_total", code="500", instance="13.215.254.104:9100", job="node_exporter"}
🟦 {__name__="promhttp_metric_handler_requests_total", code="503", instance="13.215.254.104:9100", job="node_exporter"}

Data source: prometheus

MD = auto = 1282 Interval = 15s

A (prometheus)

Explain ●

Metric: promhttp_metric_handler_requests_total

Label filters: instance = 13.215.254.104:9100

```
promhttp_metric_handler_requests_total {instance="13.215.254.104:9100"}
```

Fetch all series matching metric name and label filters.

Title: Panel Title

Description:

Transparent background

Tooltip mode: [✓ Single] All Hidden

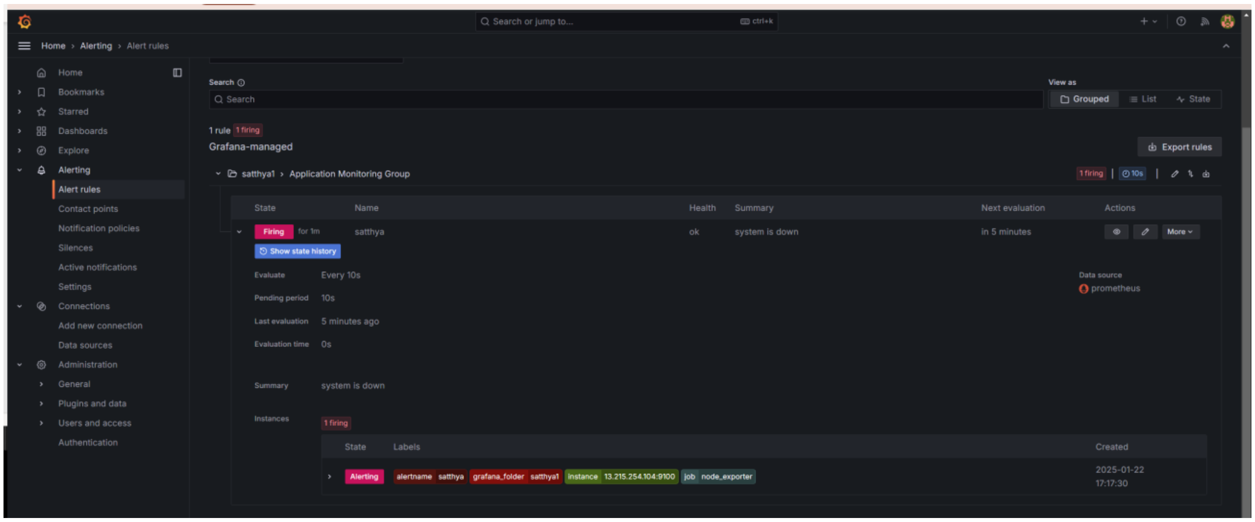
Hover proximity
How close the cursor must be to a point to trigger the tooltip, in pixels

Max width

Visibility ●

Mode: [✓ List] Table

- Alert Configuration



1 rule 1 firing

Grafana-managed

satthya1 › Application Monitoring Group 1 firing | 10s

State	Name	Health	Summary	Next evaluation	Actions
Firing for 1m	satthya	ok	system is down	in 5 minutes	

Evaluate: Every 10s

Pending period: 10s

Last evaluation: 5 minutes ago

Evaluation time: 0s

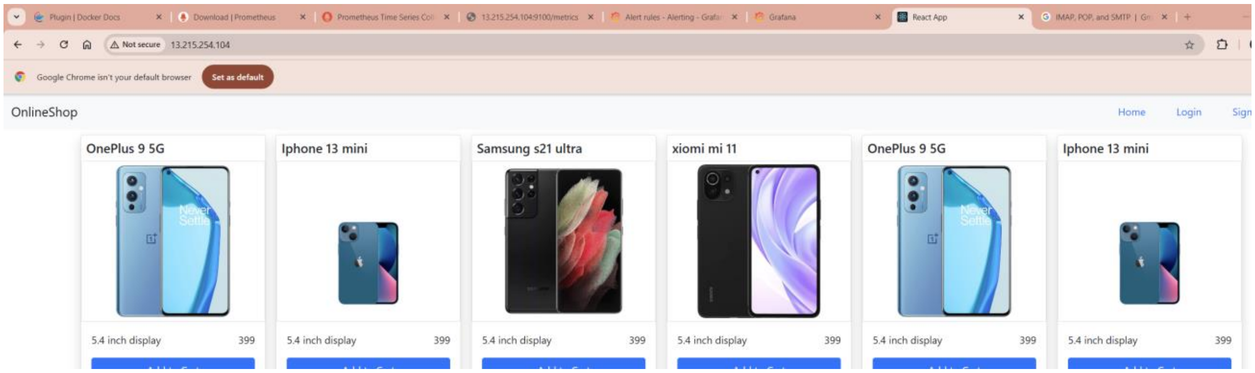
Data source: prometheus

Summary: system is down

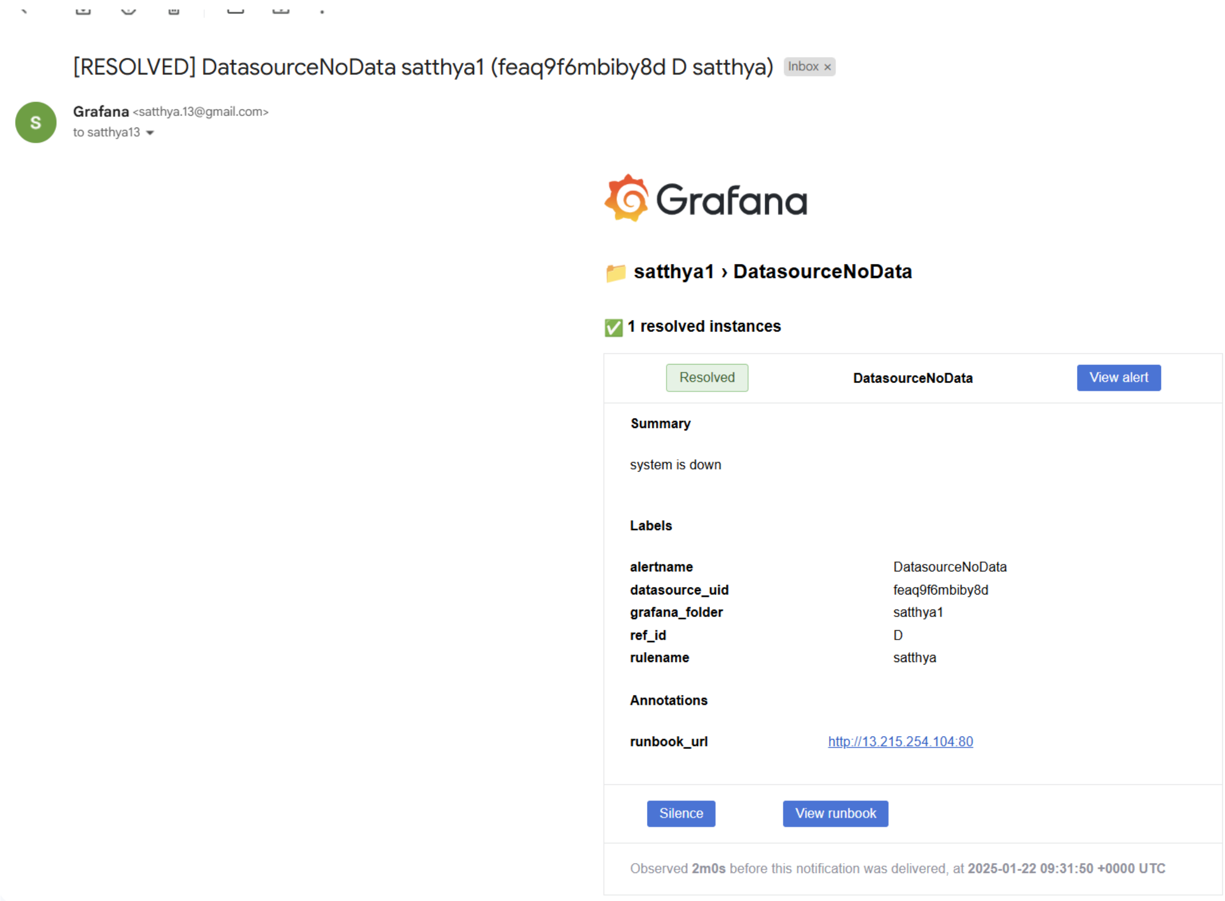
Instances: 1 firing

State	Labels	Created
Alerting	alertname satthya grafana_folder satthya1 instance 13.215.254.104:9100 job node_exporter	2025-01-22 17:17:30

- Deployed Application



- Auto alert email when instance down



[RESOLVED] DatasourceNoData satthya1 (feaq9f6mbiby8d D satthya) Inbox ×

Grafana <satthya.13@gmail.com>
to satthya13

Grafana

satthya1 › DatasourceNoData

✅ 1 resolved instances

Resolved DatasourceNoData View alert

Summary

system is down

Labels

alertname	DatasourceNoData
datasource_uid	feaq9f6mbiby8d
grafana_folder	satthya1
ref_id	D
rulename	satthya

Annotations

runbook_url http://13.215.254.104:80

Silence View runbook

Observed 2m0s before this notification was delivered, at 2025-01-22 09:31:50 +0000 UTC