

Github repository: <https://github.com/kishorekannanc/devops-project.git>

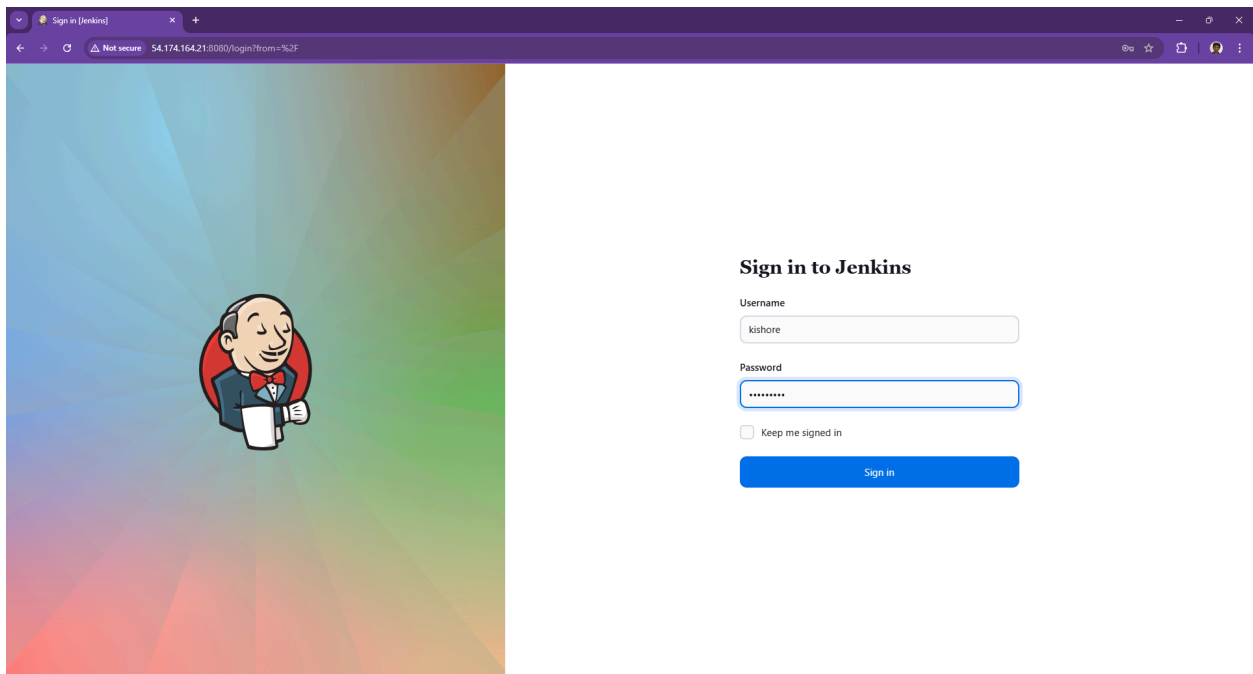
App-URL: <http://54.174.164.21/>

Docker images and container

```
ubuntu@ip-172-31-93-54:~$ docker images
REPOSITORY          TAG         IMAGE ID      CREATED       SIZE
kishorekannan23/dev  v1         ffd829b8e9e7  5 minutes ago 194MB
kishorekannan23/prod v1         ed9b4ae69836  5 minutes ago 194MB
nginx                latest      60c8a892f36f  7 weeks ago   192MB
ubuntu@ip-172-31-93-54:~$ docker ps
CONTAINER ID   IMAGE                                COMMAND                  CREATED        STATUS        PORTS                               NAMES
2eaab3e2c082   kishorekannan23/prod:v1            "/docker-entrypoint..." 5 minutes ago  Up 5 minutes  0.0.0.0:80->80/tcp, :::80->80/tcp  main_app_container
ubuntu@ip-172-31-93-54:~$
```

JENKINS

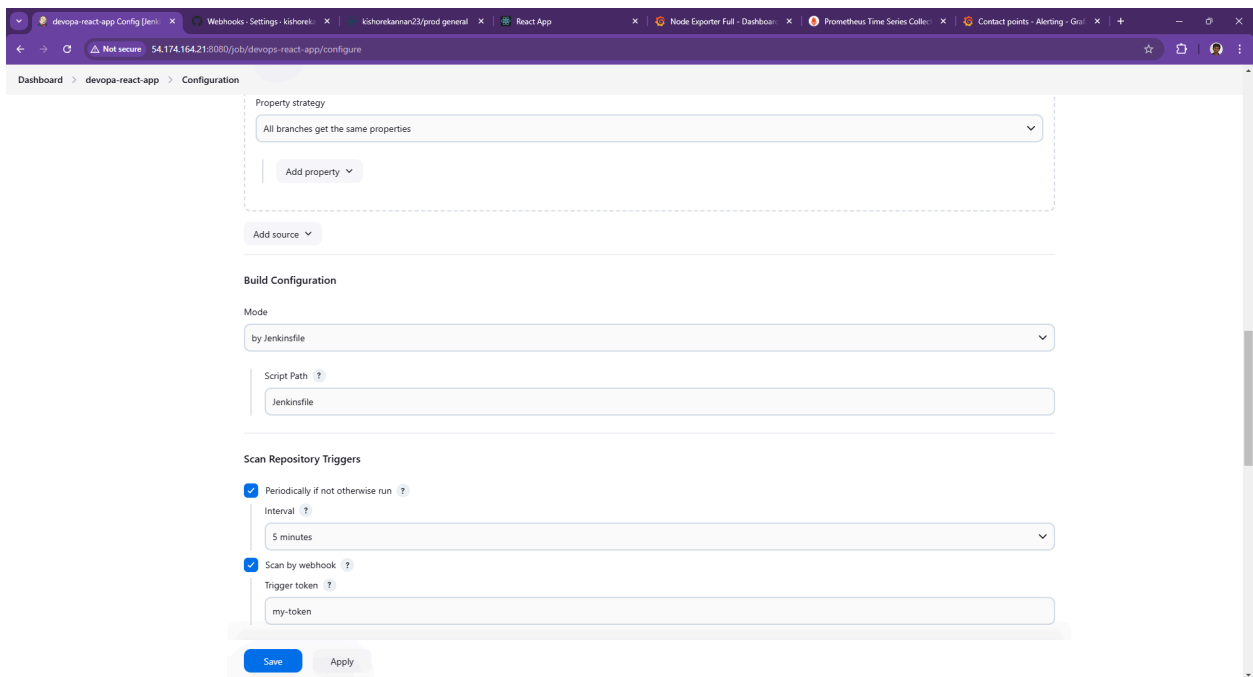
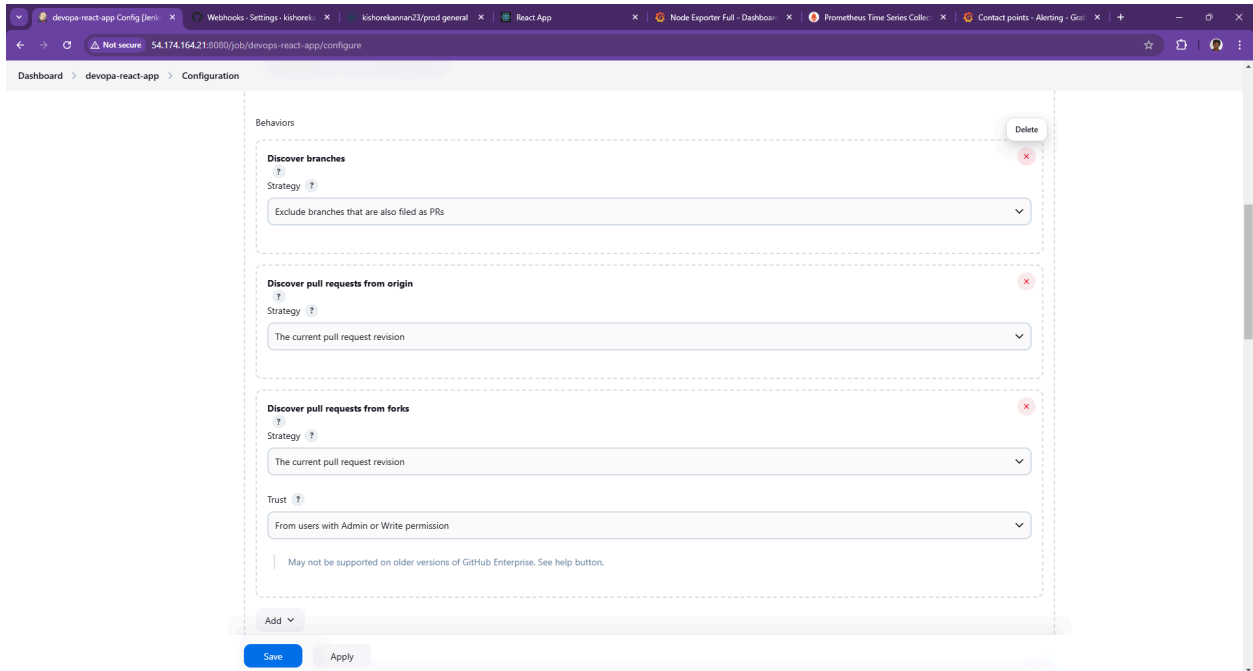
Login page:



Multibranch configuration setting:

The screenshot shows the Jenkins 'New Item' page. At the top, there's a breadcrumb: 'Dashboard > All > New Item'. Below this, there's a section 'Enter an item name' with a text input field containing 'devops-react-app'. Underneath is 'Select an item type' with several options: 'Freestyle project', 'Maven project', 'Pipeline', 'Multi-configuration project', 'Folder', 'Multibranch Pipeline' (which is highlighted with a blue border and a key icon), and 'Organization Folder'. Each option has a brief description. At the bottom of the 'Multibranch Pipeline' section is a blue 'OK' button.

The screenshot shows the Jenkins 'Configuration' page for the 'devops-react-app' item. The breadcrumb is 'Dashboard > devops-react-app > Configuration'. On the left is a sidebar with navigation links: 'General', 'Branch Sources', 'Build Configuration', 'Scan Repository Triggers', 'Orphaned Item Strategy', 'Appearance', 'Health metrics', and 'Properties'. The 'General' tab is selected. The 'General' section has a toggle switch 'Enabled' which is turned on. Below this is 'Display Name' with a text input field containing 'devops-react-app'. There's a 'Description' text area. Below that is a 'Plain text' link and a 'Preview' link. The 'Branch Sources' section is expanded, showing a 'GitHub' credential dropdown set to 'kishorekannan***** (Github)'. Below this is a '+ Add' button. Underneath is a 'Repository HTTP(S) URL' section with a text input field containing 'https://github.com/kishorekannan/devops-project.git' and a 'Validate' button. At the bottom, there's a 'Repository Scan - Deprecated Visualization' section with a radio button. At the very bottom are 'Save' and 'Apply' buttons.



devopa-react-app Config (Dev)Webhooks - Settings - kishorek...kishorekannan23/prod generalReact AppNode Exporter Full - DashboarPrometheus Time Series Coll...Contact points - Alerting - Gr...54.174.164.21:8080/job/devops-react-app/configure

Dashboard > devopa-react-app > Configuration

Orphaned Item Strategy

Jobs for removed SCM heads (i.e. deleted branches) can be removed immediately or kept based on a desired retention strategy. By default, jobs will be removed as soon as Jenkins determines their associated SCM head no longer exists. As an example, it may be useful to configure a different retention strategy to be able to examine build results of a branch after it has been removed.

☐ Abort builds ?
☒ Discard old items

Days to keep old items
If not empty, old items are only kept up to this number of days

Max # of old items to keep
If not empty, only up to this number of old items are kept

Appearance

Icon ?
Metadata Folder Icon

Health metrics

Health metrics

Properties

SaveApply

devopa-react-app Config (Dev)Webhooks - Settings - kishorek...kishorekannan23/prod generalReact AppNode Exporter Full - DashboarPrometheus Time Series Coll...Contact points - Alerting - Gr...54.174.164.21:8080/job/devops-react-app/configure

Dashboard > devopa-react-app > Configuration

Health metrics

Health metrics

Properties

Docker Label ?

Docker registry URL ?

Registry credentials
- none -
+ Add

Pipeline Libraries

Sharable libraries available to any Pipeline jobs inside this folder. These libraries will be untrusted, meaning their code runs in the Groovy sandbox.

Add

SaveApply

REST APIJenkins 2.486

Credentials:

System - Global credentials [unrestricted]

54.174.164.21:8080/manage/credentials/store/system/domain/

Search [CTRL+K]

kishore

log out

DashboardManage JenkinsCredentialsSystemGlobal credentials (unrestricted)

Global credentials (unrestricted)

Add Credentials

Credentials that should be available irrespective of domain specification to requirements matching.

ID	Name	Kind	Description
credentials	kishorekannan23/***** (docker)	Username with password	docker
Github	kishorekannan23/***** (Github)	Username with password	Github

Icons: S M L

REST APIJenkins 2.486

Build pipeline

Development (#1) [devops-react-app]

Webhooks - Settings - kishorek

kishorekannan23/prod general

54.174.164.21:8080/job/devops-react-app/view/change-requests/job/PR-1/

Search (CTRL+K)

kishore

log out

Dashboard > devops-react-app > Pull Requests (1) > Development (#1) >

Status

Changes

Build Now

View Configuration

Full Stage View

Stages

GitHub

Pipeline Syntax

BUILDS

Filter

Today

#1 5:56 AM

Development (#1)

Full project name: devops-react-app/PR-1

Stage View

Average stage times:
(Average full run time: ~29s)

Declarative: Checkout SCM	Checkout Code	Determine Version	Build Docker Image	Deploy to Docker Hub	Declarative: Post Actions
5s	1s	1s	7s	4s	252ms
5s	1s	1s	7s	4s	252ms

Permalinks

- Last build (#1), 1 min 23 sec ago
- Last stable build (#1), 1 min 23 sec ago
- Last successful build (#1), 1 min 23 sec ago
- Last completed build (#1), 1 min 23 sec ago

REST API Jenkins 2.486

main [devops-react-app] [jenkins]

Webhooks - Settings - kishorek

kishorekannan23/prod general

54.174.164.21:8080/job/devops-react-app/job/main/

Search (CTRL+K)

kishore

log out

Dashboard > devops-react-app > main >

Status

Changes

Build Now

View Configuration

Full Stage View

Stages

GitHub

Pipeline Syntax

BUILDS

Filter

Today

#1 5:56 AM

main

Full project name: devops-react-app/main

Stage View

Average stage times:
(Average full run time: ~32s)

Declarative: Checkout SCM	Checkout Code	Determine Version	Build Docker Image	Push to Docker Hub	Run Docker Container	Declarative: Post Actions
2s	1s	870ms	10s	3s	4s	123ms
2s	1s	870ms	10s	3s	4s	123ms

Permalinks

- Last build (#1), 1 min 12 sec ago
- Last stable build (#1), 1 min 12 sec ago
- Last successful build (#1), 1 min 12 sec ago
- Last completed build (#1), 1 min 12 sec ago

REST API Jenkins 2.486

Dashboard

EC2 Global View

Events

Instances

Instances

Instance Types

Launch Templates

Spot Requests

Savings Plans

Reserved Instances

Dedicated Hosts

Capacity Reservations

Images

AMIs

AMI Catalog

Elastic Block Store

Volumes

Snapshots

Lifecycle Manager

Network & Security

Security Groups

Elastic IPs

Placement Groups

Key Pairs

Network Interfaces

Load Balancing

Instances (2) Info

Find Instance by attribute or tag (case-sensitive)

Running

Last updated less than a minute ago

Connect

Instance state

Actions

Launch instances

	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS	Public IPv4 ...	Elastic IP
<input type="checkbox"/>	devops-react-...	i-01194c93bcae2f543	Running	t2.micro	2/2 checks passed	View alarms +	us-east-1a	ec2-54-174-164-21.co...	54.174.164.21	-
<input type="checkbox"/>	Monitor	i-09fed7c2e5eddb41a	Running	t2.micro	2/2 checks passed	View alarms +	us-east-1b	ec2-3-85-219-247.com...	3.85.219.247	-

Select an instance

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Dashboard

EC2 Global View

Events

Instances

Instances

Instance Types

Launch Templates

Spot Requests

Savings Plans

Reserved Instances

Dedicated Hosts

Capacity Reservations

Images

AMIs

AMI Catalog

Elastic Block Store

Volumes

Snapshots

Lifecycle Manager

Network & Security

Security Groups

Elastic IPs

Placement Groups

Key Pairs

Network Interfaces

Load Balancing

Instances (1/2) Info

Find Instance by attribute or tag (case-sensitive)

Running

Last updated 1 minute ago

Connect

Instance state

Actions

Launch instances

	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS	Public IPv4 ...	Elastic IP
<input checked="" type="checkbox"/>	devops-react-...	i-01194c93bcae2f543	Running	t2.micro	2/2 checks passed	View alarms +	us-east-1a	ec2-54-174-164-21.co...	54.174.164.21	-
<input type="checkbox"/>	Monitor	i-09fed7c2e5eddb41a	Running	t2.micro	2/2 checks passed	View alarms +	us-east-1b	ec2-3-85-219-247.com...	3.85.219.247	-

i-01194c93bcae2f543 (devops-react-app)

Instance summary Info

Instance ID

IPV6 address

Hostname type

Answer private resource DNS name

Auto-assigned IP address

IAM Role

IMDSv2

Operator

Public IPv4 address

Instance state

Private IP DNS name (IPv4 only)

Instance type

VPC ID

Subnet ID

Instance ARN

Private IPv4 addresses

Public IPv4 DNS

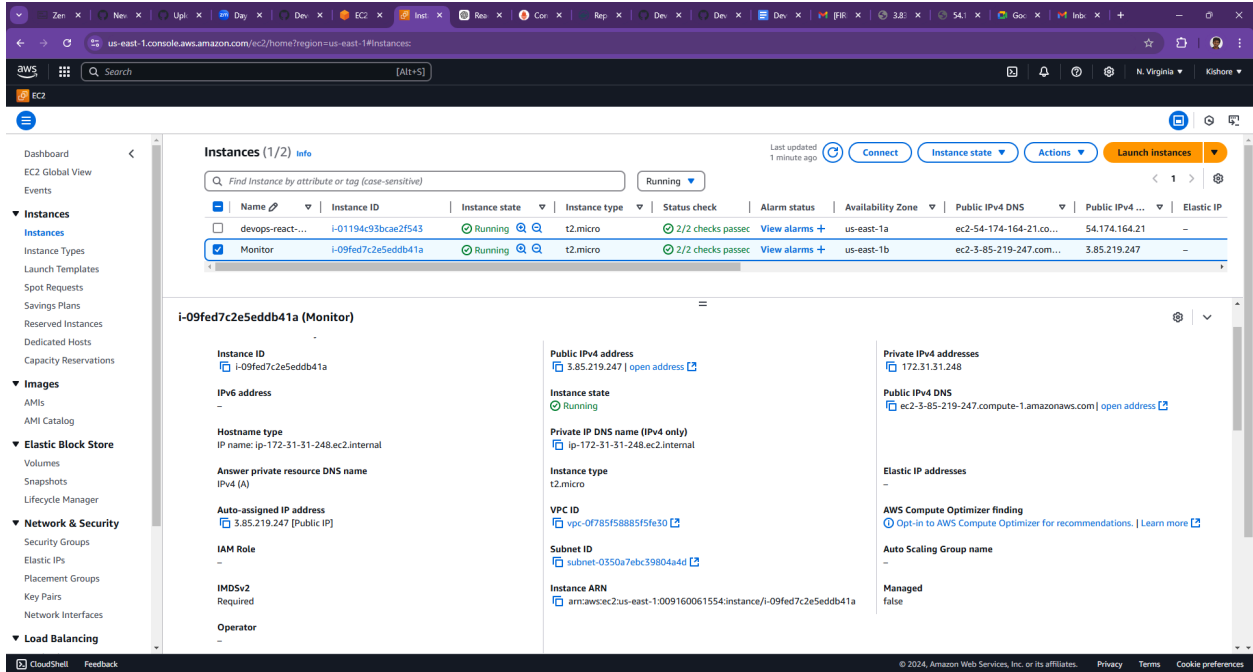
Elastic IP addresses

AWS Compute Optimizer finding

Auto Scaling Group name

Managed

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Security group:

Details

Security group name guvi	Security group ID sg-00d6f86a5f6adae58	Description project	VPC ID vpc-0f785f58885f5fe30
Owner 009160061554	Inbound rules count 9 Permission entries	Outbound rules count 1 Permission entry	

[Inbound rules](#) | [Outbound rules](#) | [Sharing - new](#) | [VPC associations - new](#) | [Tags](#)

Inbound rules (9)

Q Search

⌕

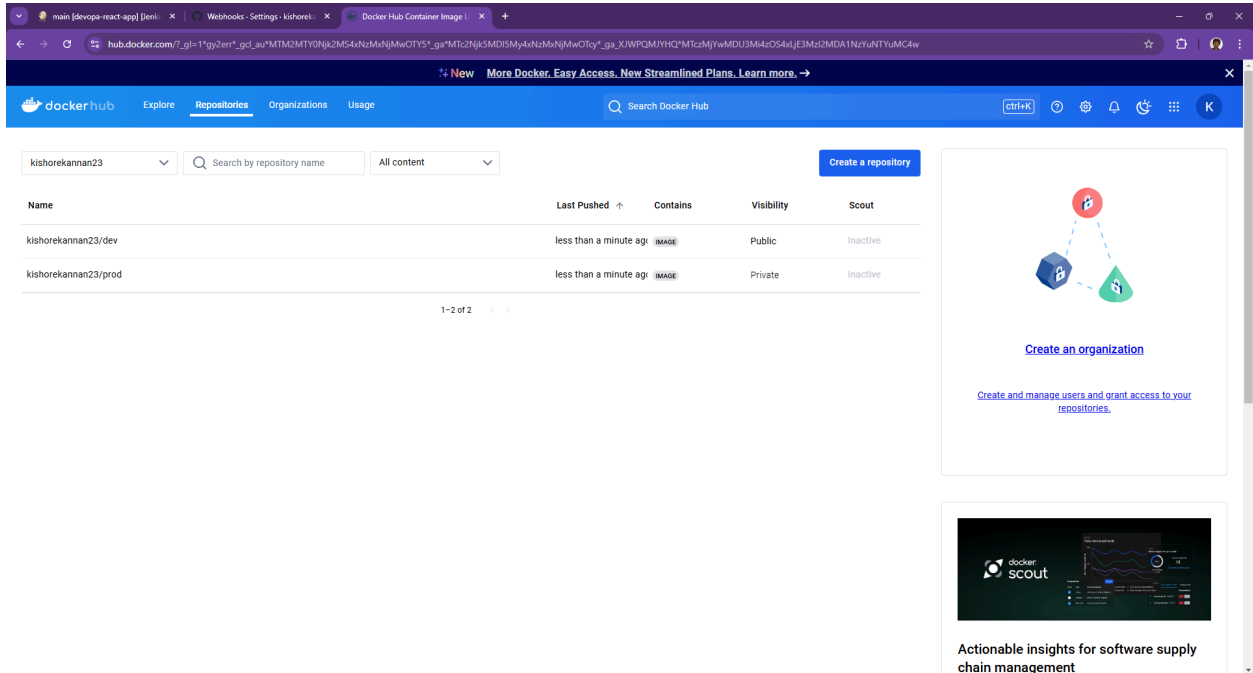
Manage tags

Edit inbound rules

<1>

<input type="checkbox"/>	Name	Security group rule ID	IP version	Type	Protocol	Port range
<input type="checkbox"/>	-	sgr-0b8941c2cde49ce2a	IPv4	HTTP	TCP	80
<input type="checkbox"/>	-	sgr-01a697ae01efa7d5e	IPv4	SSH	TCP	22
<input type="checkbox"/>	-	sgr-02bbc39b468dc7baf	IPv4	Custom TCP	TCP	8080
<input type="checkbox"/>	-	sgr-0d79576216f1a6773	IPv4	SMTPS	TCP	465
<input type="checkbox"/>	-	sgr-09ffcfec7a2125332	IPv4	SMTP	TCP	25
<input type="checkbox"/>	-	sgr-0d930fb5b7add59df	IPv4	Custom TCP	TCP	9093
<input type="checkbox"/>	-	sgr-0da9d4b99354a0dfe	IPv4	Custom TCP	TCP	9100
<input type="checkbox"/>	-	sgr-0261a71a9b7c4229a	IPv4	Custom TCP	TCP	3000
<input type="checkbox"/>	-	sgr-09e51486c786e3aa9	IPv4	Custom TCP	TCP	9090

Docker hub images:



The screenshot shows the Docker Hub interface for the user 'kishorekannan23'. The 'Repositories' tab is active, displaying a table of repositories. The table has columns for Name, Last Pushed, Contains, Visibility, and Scout. Two repositories are listed: 'kishorekannan23/dev' (Public, Inactive) and 'kishorekannan23/prod' (Private, Inactive). On the right, there are promotional cards for 'Create an organization' and 'docker scout'.

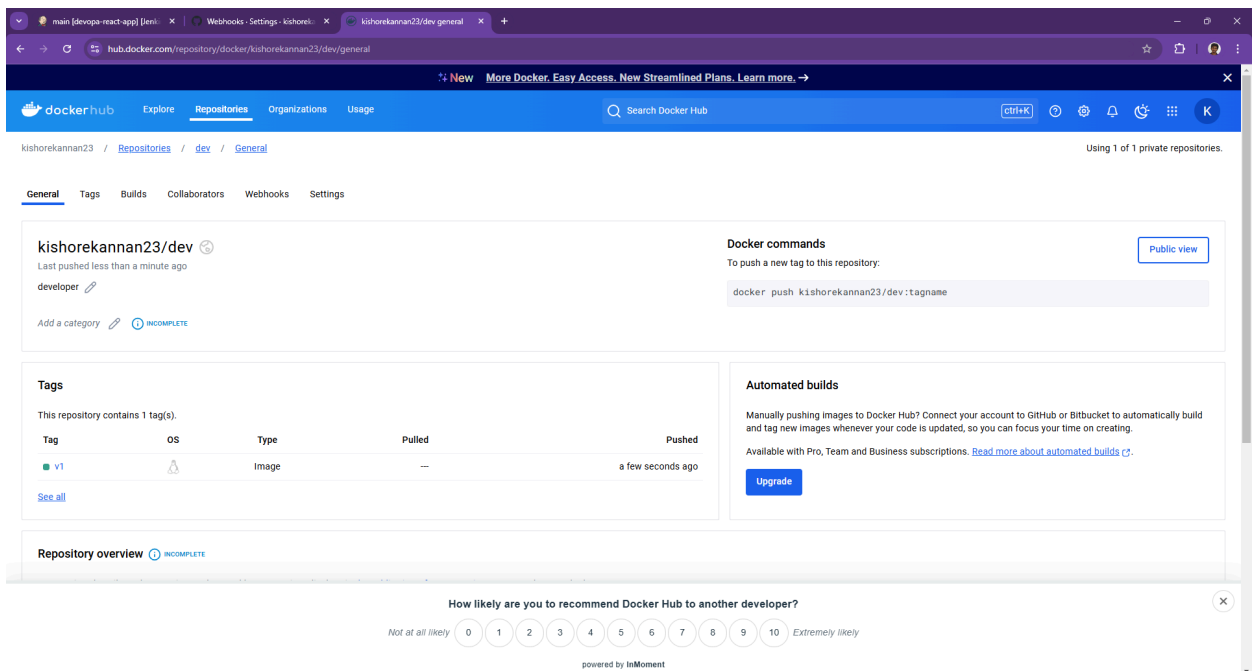
Name	Last Pushed	Contains	Visibility	Scout
kishorekannan23/dev	less than a minute ago	IMAGE	Public	Inactive
kishorekannan23/prod	less than a minute ago	IMAGE	Private	Inactive

1-2 of 2

[Create an organization](#)
Create and manage users and grant access to your repositories.

docker scout
Actionable insights for software supply chain management

Public docker hub



The screenshot shows the Docker Hub repository page for 'kishorekannan23/dev'. The 'General' tab is active, displaying repository details, tags, and Docker commands. The repository is public and has one tag, 'v1'. The 'Docker commands' section shows the command to push a new tag. The 'Automated builds' section provides information on how to connect to GitHub or Bitbucket for automated builds. At the bottom, there is a survey question: 'How likely are you to recommend Docker Hub to another developer?' with a rating scale from 0 to 10.

kishorekannan23/dev
Last pushed less than a minute ago
developer
Add a category [INCOMPLETE](#)

Docker commands
To push a new tag to this repository:
`docker push kishorekannan23/dev:tagname`

Tags
This repository contains 1 tag(s).

Tag	OS	Type	Pulled	Pushed
v1	linux	Image	—	a few seconds ago

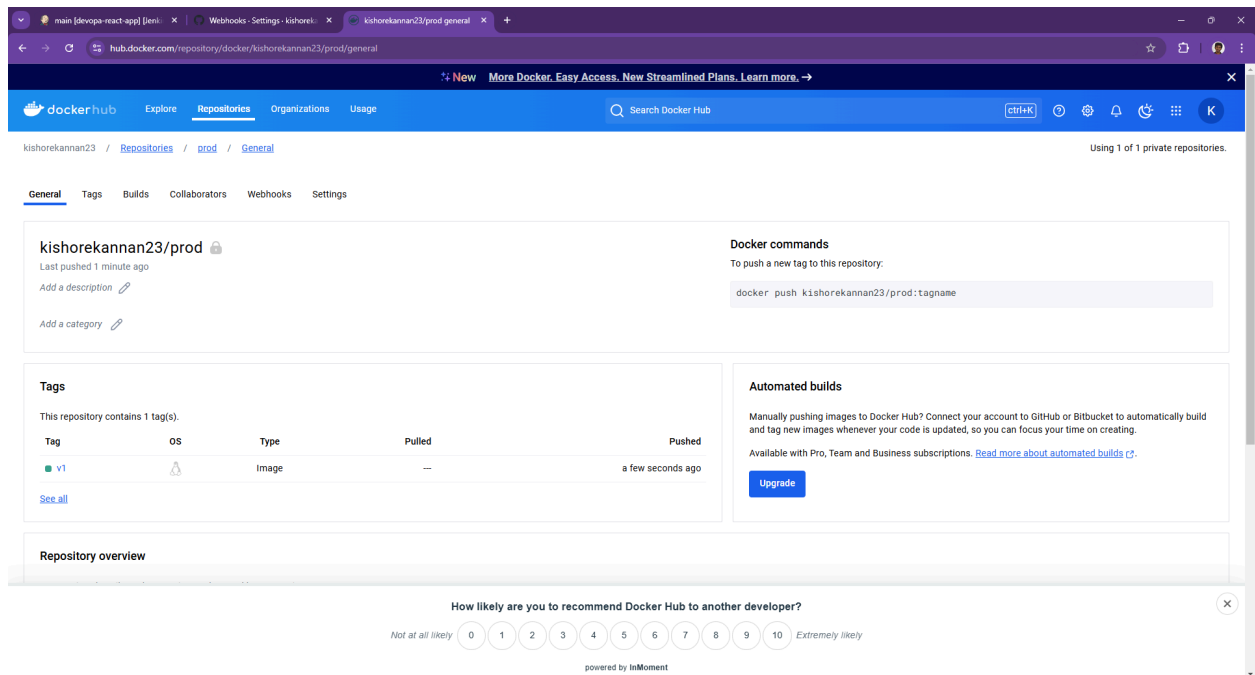
[See all](#)

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](#).
[Upgrade](#)

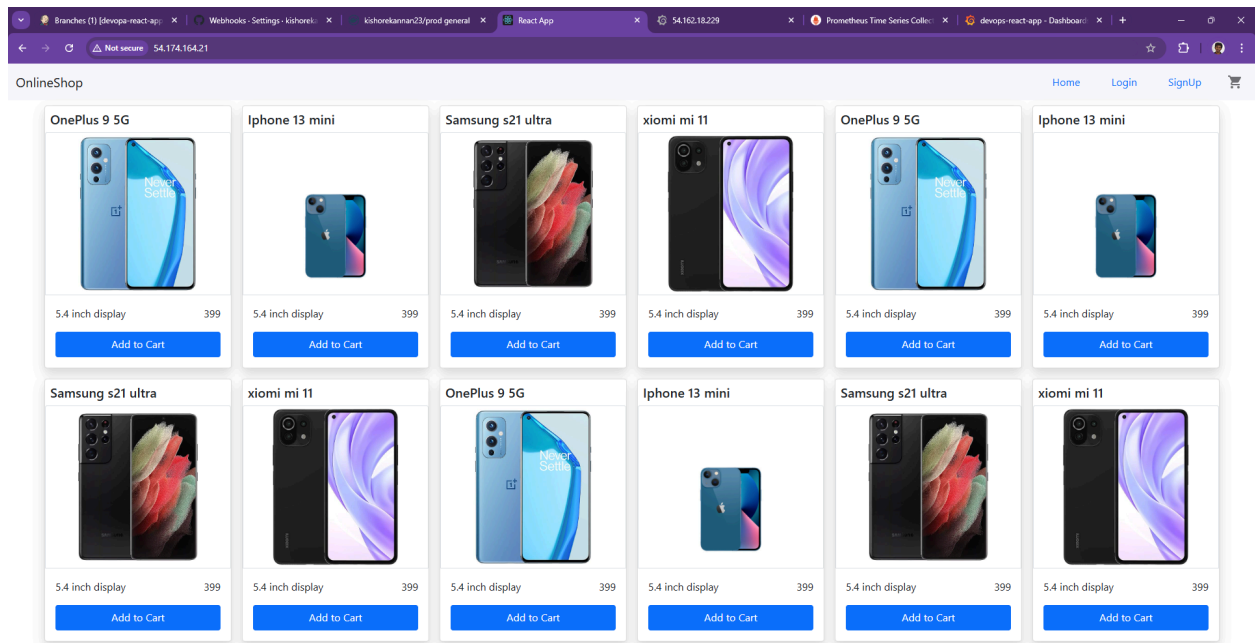
Repository overview [INCOMPLETE](#)

How likely are you to recommend Docker Hub to another developer?
Not at all likely 0 1 2 3 4 5 6 7 8 9 10 Extremely likely
powered by InMoment

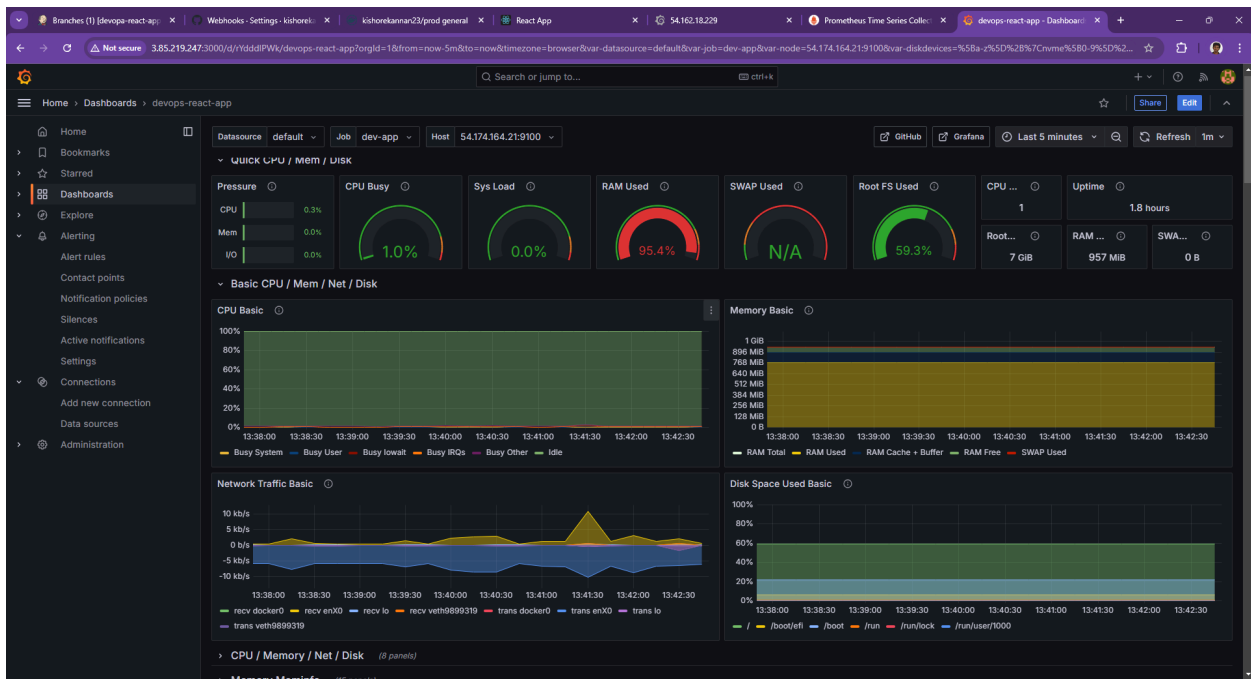
Private docker hub




Site image:



Monitoring status



Email notification when they cross 80%



cpu-usage > DatasourceError

1 firing instances

Firing

DatasourceError

View alert

Labels

alertname

DatasourceError

datasource_uid

be53887hgk5cb

grafana_folder

cpu-usage

ref_id

A

rulename

cpu usage

Annotations

Err [sse.dataQueryError] failed to execute query [A]: bad_data: invalid parameter "query": or unknown position: parse error: no expression found in input

Silence

Observed 30s before this notification was delivered, at 2024-11-26 08:25:40 +0000 UTC

3mail... OK No thanks X

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COMMANDS:

- 1.create a two instance one for monitoring and devops-app
2. In monitoring install prometheus and grafana ,in prometheus.yml file add the dev app ip and node and run the prometheus in the port of(monitoringIP:9090)
3. Install grafana and ans set smt congif in the grafana.in file and run the grafana
4. Open the grafana in web browser with monitoring-ip:3000
- 5.set dashboard and contact detail, alert detail ,save the all changes we done in dashboard.when is goes down below your threshold it will trigger the mail,

In devops-react-app instance

1. Install docker,docke-compose,jenkins ,openjdk

Commands:

Docker compose

```
Sudo curl-L
"https://github.com/docker/compose/releases/latest/download/docker-compose-$(uname
-s)-$(uname -m)" -o /usr/local/bin/docker-compose
sudo chmod +x /usr/local/bin/docker-compose
docker-compose --version
```

Openjdk:

```
sudo apt update
sudo apt install fontconfig openjdk-17-jre
java -version
openjdk version "17.0.8" 2023-07-18
OpenJDK Runtime Environment (build 17.0.8+7-Debian-1deb12u1)
OpenJDK 64-Bit Server VM (build 17.0.8+7-Debian-1deb12u1, mixed mode, sharing)
sudo snap install openjdk
```

Jenkins:

```
sudo wget -O /usr/share/keyrings/jenkins-keyring.asc \
https://pkg.jenkins.io/debian/jenkins.io-2023.key
echo "deb [signed-by=/usr/share/keyrings/jenkins-keyring.asc]" \
https://pkg.jenkins.io/debian binary/ | sudo tee \
/etc/apt/sources.list.d/jenkins.list > /dev/null
sudo apt-get update
sudo apt-get install jenkins
```

Creating user and group

```
sudo usermod -aG docker ubuntu  
sudo usermod -aG docker jenkins  
newgrp docker
```

Start ,enable,restart the services

```
sudo systemctl start docker  
sudo systemctl enable docker  
sudo systemctl start jenkins  
sudo systemctl enable jenkins  
sudo systemctl restart jenkins
```

To view the jenkins password:

```
sudo cat /var/lib/jenkins/secrets/initialAdminPassword
```

Inside jenkins add essential plugins ins: docker,pipeline,github,multibranch

Webhook : enable the webhook with jenkins-url