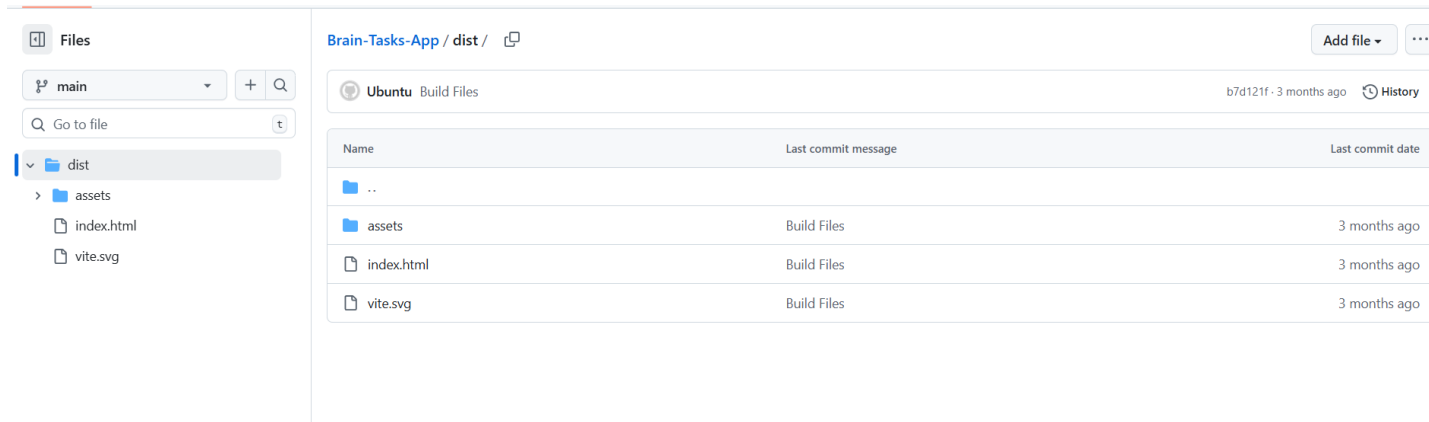


## Project: Brain-Tasks-App

### ➔ Step 1: Clone the repo and Dockerize the app



Files

main

Go to file

dist

- assets
  - index.html
  - vite.svg

Brain-Tasks-App / dist /

Ubuntu Build Files

b7d121f · 3 months ago History

Name	Last commit message	Last commit date
..		
assets	Build Files	3 months ago
index.html	Build Files	3 months ago
vite.svg	Build Files	3 months ago

### ➔ Step 2: Create ECR repo and push the image

```
aws ecr get-login-password --region ap-south-1 \
  | docker login --username AWS --password-stdin 907969929387.dkr.ecr.ap-south-1.amazonaws.com

docker tag brain-tasks-app:latest \
  907969929387.dkr.ecr.ap-south-1.amazonaws.com/brain-tasks-app:latest

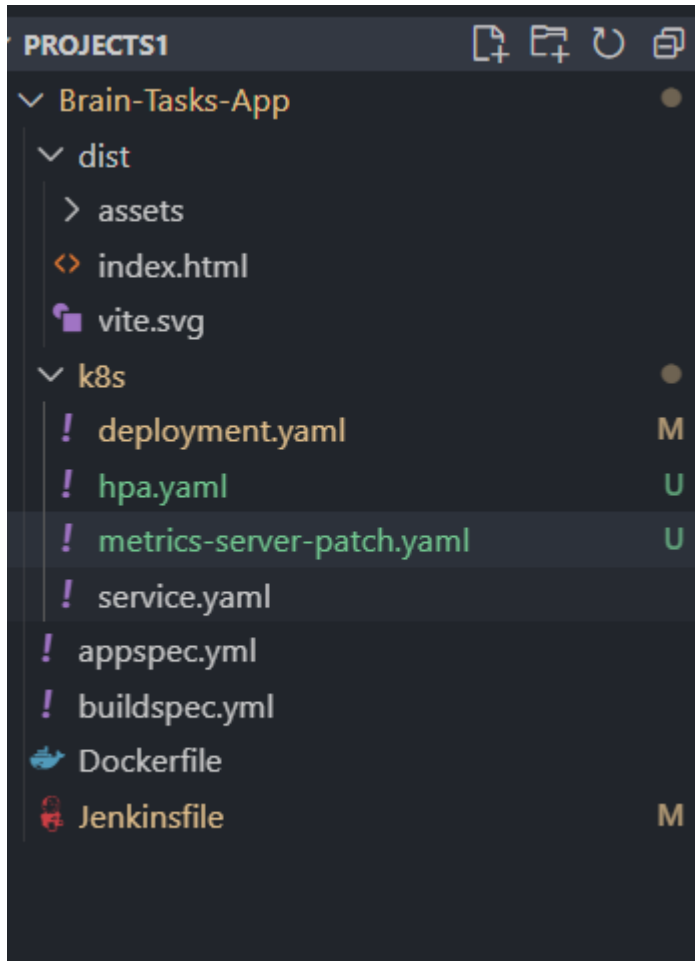
docker push 907969929387.dkr.ecr.ap-south-1.amazonaws.com/brain-tasks-app:latest
```

### ➔ Step 3: Create EKS Cluster

```
eksctl create cluster \
  --name brain-tasks-cluster \
  --region ap-south-1 \
  --nodegroup-name standard-workers \
  --node-type t3.medium \
  --nodes 2 \
  --nodes-min 1 \
  --nodes-max 3 \
  --managed
```

#### ➔ Step 4: Kubernetes manifest – Deploy the app

Create k8s folder with deployment.yaml and service.yaml.



#### ➔ Step 5: Metrics and HPA and Monitoring

```
ip-192-168-80-77.ap-south-1.compute.internal 37m 1% 483Mi 14%
PS C:\Users\91866\projects1\Brain-Tasks-App\k8s> kubectl top pods
NAME CPU(cores) MEMORY(bytes)
brain-tasks-deployment-8474b78b5d-g52ch 0m 3Mi
brain-tasks-deployment-8474b78b5d-pbdqh 0m 3Mi
PS C:\Users\91866\projects1\Brain-Tasks-App\k8s> kubectl get hpa
NAME REFERENCE TARGETS MINPODS MAXPODS REPLICAS AGE
brain-tasks-hpa Deployment/brain-tasks-deployment cpu: 0%/30% 2 6 2 36m
```

## ➔ Step 6: Build Jenkins and deploy to EKS.

### ✓ Console Output

[Download](#)[Copy](#)[View as plain text](#)

```
Started by user pranit pisal
Obtained Jenkinsfile from git https://github.com/Wanted162/brain-task-app.git
[Pipeline] Start of Pipeline
[Pipeline] node
Running on Jenkins in /var/lib/jenkins/workspace/brain-tasks-pipeline
[Pipeline] {
[Pipeline] stage
[Pipeline] { (Declarative: Checkout SCM)
[Pipeline] checkout
Selected Git installation does not exist. Using Default
The recommended git tool is: NONE
No credentials specified
> git rev-parse --resolve-git-dir /var/lib/jenkins/workspace/brain-tasks-pipeline/.git # timeout=10
Fetching changes from the remote Git repository
> git config remote.origin.url https://github.com/Wanted162/brain-task-app.git # timeout=10
Fetching upstream changes from https://github.com/Wanted162/brain-task-app.git
> git --version # timeout=10
> git --version # 'git version 2.43.0'
> git fetch --tags --force --progress -- https://github.com/Wanted162/brain-task-app.git +refs/heads/*:refs/remotes/origin/* # timeout=10
> git rev-parse refs/remotes/origin/main^{commit} # timeout=10
Checking out Revision f6549d367634d087525c737953c2934664535bce (refs/remotes/origin/main)
> git config core.sparsecheckout # timeout=10
> git checkout -f f6549d367634d087525c737953c2934664535bce # timeout=10
Commit message: "Initial commit with chnages in Jenkinsfile"
> git rev-list --no-walk f6549d367634d087525c737953c2934664535bce # timeout=10
```

```
latest: digest: sha256:8a8a9c20af554a6ffbdb45a4f47e94dbe823b8981ab2337430823464744a3b4b size: 2406
[Pipeline] }
[Pipeline] // stage
[Pipeline] stage
[Pipeline] { (Deploy to EKS)
[Pipeline] sh
+ aws eks update-kubeconfig --region ap-south-1 --name brain-tasks-cluster
Updated context arn:aws:eks:ap-south-1:907969929387:cluster/brain-tasks-cluster in /var/lib/jenkins/.kube/config
[Pipeline] sh
+ kubectl apply -f k8s/deployment.yaml --validate=false
deployment.apps/brain-tasks-deployment unchanged
[Pipeline] sh
+ kubectl apply -f k8s/service.yaml --validate=false
service/brain-tasks-service unchanged
[Pipeline] }
[Pipeline] // stage
[Pipeline] }
[Pipeline] // withEnv
[Pipeline] }
[Pipeline] // withEnv
[Pipeline] }
[Pipeline] // node
[Pipeline] End of Pipeline
Finished: SUCCESS
```

## ➔ Step 7: Formation of ECR, EKS setup, S3 Bucket and CI-CD setup with Cloudwatch

Amazon S3

General purpose buckets

Directory buckets

Table buckets

Vector buckets

Access Grants

Access Points (General Purpose Buckets, FSx file systems)

Access Points (Directory Buckets)

Object Lambda Access Points

Multi-Region Access Points

Batch Operations

IAM Access Analyzer for S3

Block Public Access settings for this account

Storage Lens

General purpose buckets

Directory buckets

General purpose buckets (2) Info

Copy ARN

Empty

Delete

Create bucket

Buckets are containers for data stored in S3.

Find buckets by name

Name	AWS Region	Creation date
brain-tasks-artifacts	Asia Pacific (Mumbai) ap-south-1	October 10, 2025, 11:22:04 (UTC+05:30)
codepipeline-ap-south-1-fd28eadcad00-43f9-bc6b-dfc05a87d626	Asia Pacific (Mumbai) ap-south-1	October 11, 2025, 21:36:14 (UTC+05:30)

Account snapshot Info

Updated daily

View dashboard

Storage Lens provides visibility into storage usage and activity trends.

External access summary - new

Updated daily

Info

External access findings help you identify bucket permissions that allow public access or access from other AWS accounts.

aws

Search

[Alt+S]

Asia Pacific (Mumbai)

Account ID: 9079-6992-9387

Pranit

Amazon Elastic Kubernetes Service

Clusters

brain-tasks-cluster

Amazon Elastic Kubernetes Service

Dashboard

Clusters

Settings

Dashboard settings

Console settings

Amazon EKS Anywhere

Enterprise Subscriptions

Related services

Amazon ECR

AWS Batch

Documentation

End of standard support for Kubernetes version 1.32 is March 23, 2026.

Upgrade

Cluster info Info

Status

Active

Kubernetes version

1.32

Support period

Standard support until March 23, 2026

Provider

EKS

Cluster health

0

Upgrade insights

5

Node health issues

0

Overview

Resources

Compute

Networking

Add-ons

1

Access

Observability

Update history

Tags

Details

API server endpoint

https://CCD8606BA4F76F689863712D14129F57.g7r7.ap-south-1.eks.amazonaws.com

OpenID Connect provider URL

https://oidc.eks.ap-south-1.amazonaws.com/id/CCD8606BA4F76F689863712D14129F57

Created

October 9, 2025, 14:01 (UTC+05:30)

Certificate authority

LS0tLS1CRUdJTIBDRVJUSUZZQ0FURSOtLS0tCk1JSURCVENDQWUyZ0F3SUJBZ0lRVNHaGZyZjVrQLl3RFFZSkVWklodmNOQVFFTEJRQX

Cluster IAM role ARN

arn:aws:iam::907969929387:role/eksctl-brain-tasks-cluster-cluster-ServiceRole-wcAQptf35zDr

View in IAM

Cluster ARN

arn:aws:eks:ap-south-1:907969929387:cluster/brain-tasks-cluster

Platform version

1.32

aws

Search

[Alt+S]

Asia Pacific (Mumbai)

Account ID: 9079-6992-9387

Pranit

Amazon ECR

Private registry

Repositories

brain-tasks-app

Amazon Elastic Container Registry

▼ Private registry

Repositories

Summary

Images

Permissions

Lifecycle Policy

Repository tags

Features & Settings

▼ Public registry

Repositories

Settings

ECR public gallery

Amazon ECS

Amazon EKS

Getting started

Image scan overview, status, and full vulnerabilities has moved to the Image detail page. To access, click an image tag.

Images (19)

Search artifacts

Image tag

Artifact type

Pushed at

Size (MB)

Image URI

Digest

Last recorded pull time

<input type="checkbox"/>	latest	Image	October 13, 2025, 12:14:25 (UTC+05.5)	21.11	Copy URI	sha256:584c206b15ac70...	-
<input type="checkbox"/>	-	Image	October 13, 2025, 12:13:13 (UTC+05.5)	21.11	Copy URI	sha256:af471a60d49d4e...	-
<input type="checkbox"/>	-	Image	October 13, 2025, 12:13:08 (UTC+05.5)	21.11	Copy URI	sha256:76bd78f8b23d51...	-
<input type="checkbox"/>	-	Image	October 13, 2025, 11:52:09 (UTC+05.5)	21.11	Copy URI	sha256:b239568b88eaf3...	-
<input type="checkbox"/>	-	Image	October 13, 2025, 11:44:39 (UTC+05.5)	21.11	Copy URI	sha256:574ea53d6d96ab...	-
<input type="checkbox"/>	-	Image	October 13, 2025, 11:44:37 (UTC+05.5)	21.11	Copy URI	sha256:d8e72178d3a9ac...	-
<input type="checkbox"/>	-	Image	October 13, 2025, 11:42:51 (UTC+05.5)	21.11	Copy URI	sha256:8c64d56269aaf...	-

Build projects

Info

Actions

Create trigger

View details

Debug build

Start build

Search

Your projects

Name	Source provider	Repository	Latest build status	Description
brain-tasks-build	GitHub	<a href="#">Wanted162/mind-track-app</a>	Succeeded	Build and push Docker image for Brain Tasks App

Developer Tools

CodePipeline

Pipelines

brain-tasks-pipeline

83cabff6

Build/Build: 19eb2f3e

Build: 19eb2f3e – AWS CodeBuild

Previous action

Next action

Execution summary

Status

Started

Completed

Duration

Succeeded

14 minutes ago

13 minutes ago

1 minute 5 seconds

Pipeline execution ID

83cabff6-48a9-49f0-8299-906fd3626ae3

Message

-

Action details

Stage name

Action name

Action provider

Region

Build

Build

AWS CodeBuild

ap-south-1

Namespace

BuildVariables

Success

The most recent change will re-run through the pipeline. It might take a few moments for the status of the run to show in the pipeline view.

## brain-tasks-pipeline



Edit

Stop execution

Create trigger

Clone pipeline

Release change

Pipeline

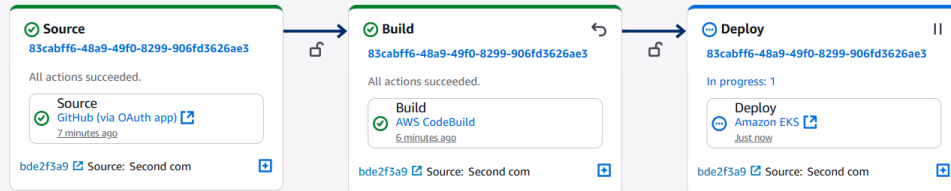
Executions

Triggers

Settings

Tags

Stage



## brain-tasks-pipeline



← Overview

### ▼ Pipeline execution details

ID

6a9014d7-172e-4b6d-9ab8-2652d99ce960

Trigger

StartPipelineExecution - root

Source revision

Source b6f53899

Second commit

Started

18 minutes ago

Completed

7 minutes ago

Duration

10 minutes 53 seconds

aws

Search [Alt+S]

CloudWatch > Log groups > /aws/codepipeline/brain-tasks-pipeline

CloudWatch

Favorites and recents

Dashboards [New](#)

AI Operations [New](#)

Alarms 0 0 0 0

Logs

Log groups

Log Anomalies

Live Tail

Logs Insights

Contributor Insights

Metrics [New](#)

Application Signals (APM) [New](#)

Network Monitoring

Insights

Settings

Telemetry config

Getting Started [New](#)

What's new

/aws/codepipeline/brain-tasks-pipeline

Log group details

Log class [Info](#)

Standard

ARN

arn:aws:logs:ap-south-1:907969929387:log-group:/aws/codepipeline/brain-tasks-pipeline:\*

Creation time

2 days ago

Retention

Never expire

Stored bytes

-

Log streams

Tags

Anomaly detection

Metric filters

Subscriptions

Log streams (13)

Filter log streams or try prefix search

Log stream

ff805582-40ec-4237-a7a6-e41c23c32a78/297163fb-25a0-4008-a7f7-1829168f51

af391dc3-1a58-453a-8581-33da70e40edf/365ada9e-b889-4b00-92df-819a4d4a9

902cad33-3b70-4622-b0b8-ed0d33b8caa9/b0157dc7-62fd-4c2d-a77d-cd0f60dde

6f372536-f684-452e-a661-31725eabaebd/bf625d6e-2c18-407f-be6b-c3af7584dc

47391154-a060-4368-afc7-52b68ff8675f/f1a69558-48af-42b2-8311-55ad4a8ec9

## → Step 8: Verifications and Monitoring

Brain-task-app [Info](#)

Delete

Summary

ARN

arn:aws:iam::907969929387:user/Brain-task-app

Console access

Disabled

Access key 1

AKIA5GZZUCVTI6QLQGR - Active

Used today. Created today.

Access key 2

Create access key

Created

September 20, 2025, 11:59 (UTC+05:30)

Last console sign-in

-

Permissions

Groups

Tags (1)

Security credentials

Last Accessed

Permissions policies (7)

Remove

Add permissions

Permissions are defined by policies attached to the user directly or through groups.

Filter by Type

All types

Search

1

Policy name

Type

Attached via

AdministratorAccess

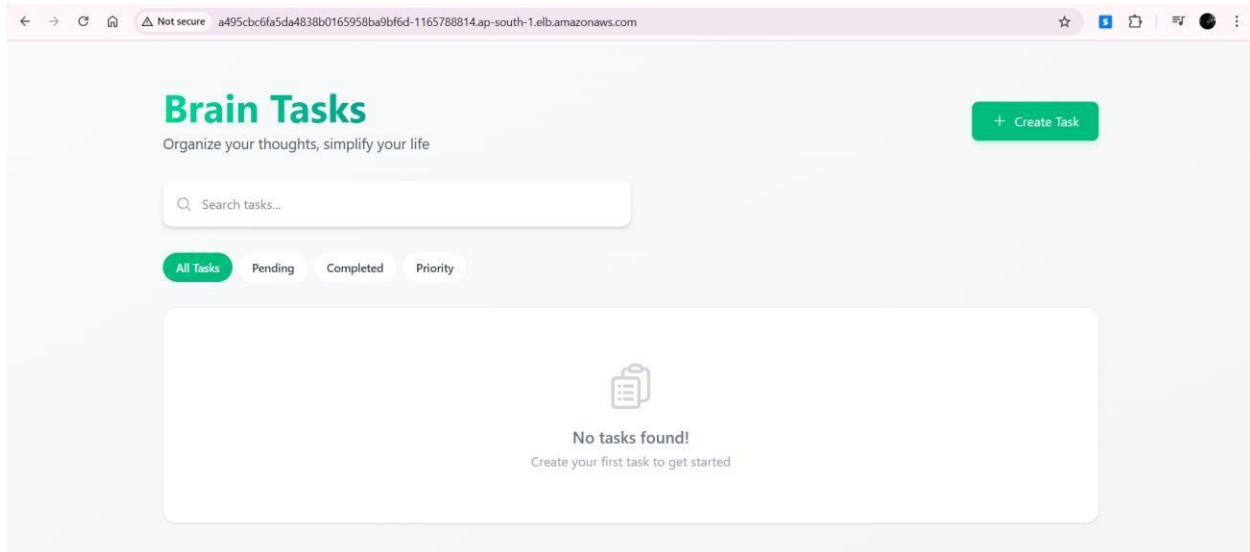
AWS managed - job function

Directly

AdministratorAccess

AWS managed

Directly



```
91866@LAPTOP-I9TPEN7J MINGW64 ~/projects1/Brain-Tasks-App (main)
$ kubectl top nodes
NAME                                         CPU(cores)   CPU(%)   MEMORY(bytes)   MEMORY(%)
ip-192-168-90-130.ap-south-1.compute.internal 40m          2%       680Mi           47%

91866@LAPTOP-I9TPEN7J MINGW64 ~/projects1/Brain-Tasks-App (main)
$ kubectl top pods
NAME                                         CPU(cores)   MEMORY(bytes)
brain-tasks-deployment-bd49c7b95-n24rf     1m           3Mi
brain-tasks-deployment-bd49c7b95-n9whj     1m           3Mi

91866@LAPTOP-I9TPEN7J MINGW64 ~/projects1/Brain-Tasks-App (main)
$ kubectl get pods -n kube-system -l k8s-app=metrics-server
NAME                                         READY   STATUS    RESTARTS   AGE
metrics-server-7c7855dd75-rf6mx           1/1     Running   0          10m
metrics-server-7c7855dd75-t76jn           1/1     Running   0          10m
```