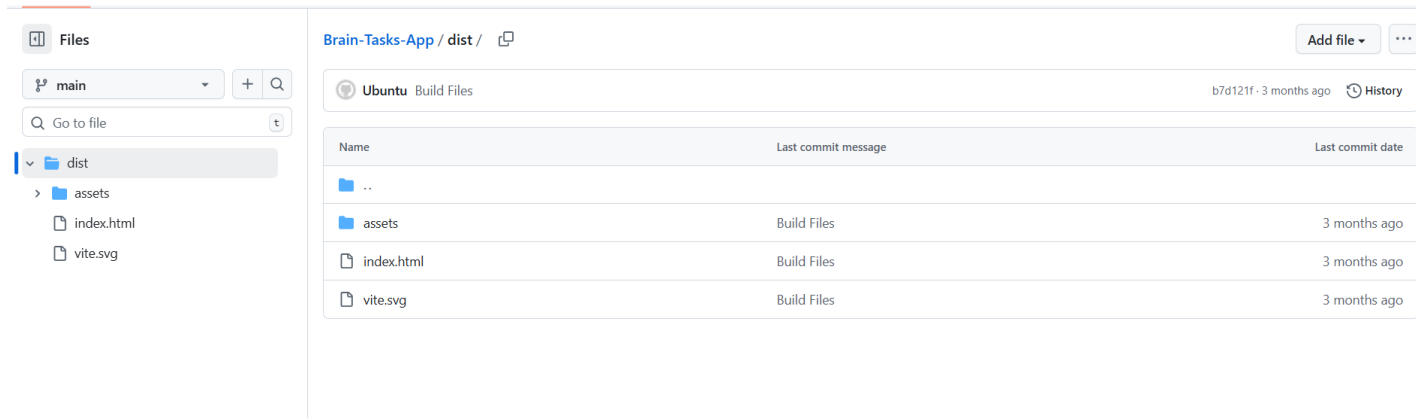


Project: Brain-Tasks-App

➔ Step 1: Clone the repo and Dockerize the app



➔ 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

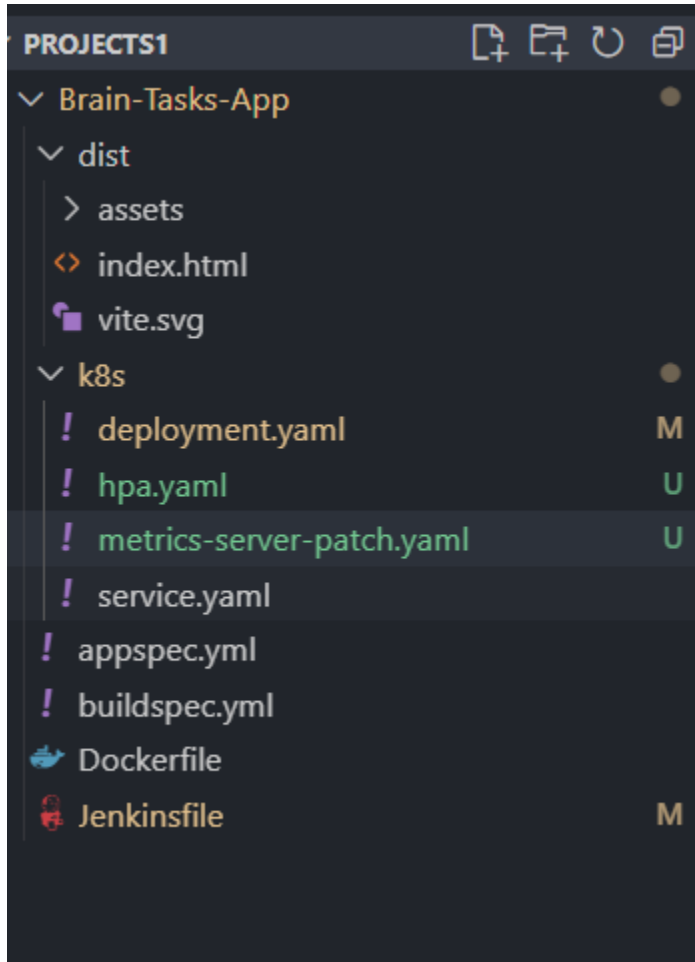
docker push 907969929387.dkr.ecr.ap-south-1.amazonaws.com/brain-tasks-app:latest
```

➔ 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

```
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

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```
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: Verifications.

Brain-task-app

Info

Delete

Summary

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

Console access
Disabled

Access key 1
AKIA5GZZZUCVTI6QLQGR - 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.

Search

Filter by Type
All types

< 1 >

Policy name	Type	Attached via
AdministratorAccess	AWS managed - job function	Directly
AdministratorAccess	AWS managed	Directly

Brain Tasks

Create Task

Organize your thoughts, simplify your life

Search tasks...

All Tasks

Pending

Completed

Priority

No tasks found!

Create your first task to get started