

# This workflow will build and push a new container image to Amazon ECR,  
# and then will deploy a new task definition to Amazon ECS, when there is a push to the "main"  
branch.  
#  
# To use this workflow, you will need to complete the following set-up steps:  
#  
# 1. Create an ECR repository to store your images.  
# For example: ``aws ecr create-repository --repository-name my-ecr-repo --region us-east-2``.  
# Replace the value of the ``ECR_REPOSITORY`` environment variable in the workflow below with  
your repository's name.  
# Replace the value of the ``AWS_REGION`` environment variable in the workflow below with your  
repository's region.  
#  
# 2. Create an ECS task definition, an ECS cluster, and an ECS service.  
# For example, follow the Getting Started guide on the ECS console:  
# <https://us-east-2.console.aws.amazon.com/ecs/home?region=us-east-2#/firstRun>  
# Replace the value of the ``ECS_SERVICE`` environment variable in the workflow below with the  
name you set for the Amazon ECS service.  
# Replace the value of the ``ECS_CLUSTER`` environment variable in the workflow below with the  
name you set for the cluster.  
#  
# 3. Store your ECS task definition as a JSON file in your repository.  
# The format should follow the output of ``aws ecs register-task-definition --generate-cli-skeleton``.  
# Replace the value of the ``ECS_TASK_DEFINITION`` environment variable in the workflow below  
with the path to the JSON file.  
# Replace the value of the ``CONTAINER_NAME`` environment variable in the workflow below with

the name of the container

# in the `containerDefinitions` section of the task definition.

#

# 4. Store an IAM user access key in GitHub Actions secrets named `AWS\_ACCESS\_KEY\_ID` and `AWS\_SECRET\_ACCESS\_KEY`.

# See the documentation for each action used below for the recommended IAM policies for this IAM user,

# and best practices on handling the access key credentials.

name: Deploy to Amazon ECS

on:

push:

branches: [ "main" ]

env:

AWS\_REGION: MY\_AWS\_REGION # set this to your preferred AWS region, e.g.

us-west-1

ECR\_REPOSITORY: MY\_ECR\_REPOSITORY # set this to your Amazon ECR repository

name

ECS\_SERVICE: MY\_ECS\_SERVICE # set this to your Amazon ECS service name

ECS\_CLUSTER: MY\_ECS\_CLUSTER # set this to your Amazon ECS cluster name

ECS\_TASK\_DEFINITION: MY\_ECS\_TASK\_DEFINITION # set this to the path to your Amazon ECS task definition

# file, e.g. .aws/task-definition.json

CONTAINER\_NAME: MY\_CONTAINER\_NAME # set this to the name of the container in the

# containerDefinitions section of your task definition

permissions:

contents: read

jobs:

deploy:

name: Deploy

runs-on: ubuntu-latest

environment: production

steps:

- name: Checkout

uses: actions/checkout@v4

- name: Configure AWS credentials

uses: aws-actions/configure-aws-credentials@v4

with:

aws-access-key-id: \${{ secrets.AWS\_ACCESS\_KEY\_ID }}

aws-secret-access-key: \${{ secrets.AWS\_SECRET\_ACCESS\_KEY }}

aws-region: \${{ env.AWS\_REGION }}

- name: Login to Amazon ECR

id: login-ecr

uses: aws-actions/amazon-ecr-login@v2

- name: Build, tag, and push image to Amazon ECR

id: build-image

env:

ECR\_REGISTRY: \${{ steps.login-ecr.outputs.registry }}

IMAGE\_TAG: \${{ github.sha }}

run: |

# Build a docker container and

# push it to ECR so that it can

# be deployed to ECS.

docker build -t \$ECR\_REGISTRY/\$ECR\_REPOSITORY:\$IMAGE\_TAG .

docker push \$ECR\_REGISTRY/\$ECR\_REPOSITORY:\$IMAGE\_TAG

echo "image=\$ECR\_REGISTRY/\$ECR\_REPOSITORY:\$IMAGE\_TAG" >>

\$GITHUB\_OUTPUT

- name: Fill in the new image ID in the Amazon ECS task definition

id: task-def

uses: aws-actions/amazon-ecs-render-task-definition@v1

with:

task-definition: \${{ env.ECS\_TASK\_DEFINITION }}

container-name: \${{ env.CONTAINER\_NAME }}

image: \${{ steps.build-image.outputs.image }}

- name: Deploy Amazon ECS task definition

uses: aws-actions/amazon-ecs-deploy-task-definition@v2

with:

task-definition: \${{ steps.task-def.outputs.task-definition }}

service: \${{ env.ECS\_SERVICE }}

cluster: \${{ env.ECS\_CLUSTER }}

wait-for-service-stability: true