

Objective: Create an AWS Batch project that automates image processing tasks, such as resizing and watermarking images, using Python and common image processing libraries.

Project Steps:

Set Up AWS Batch Environment:

- Create an AWS Batch environment with a compute environment, job queue, and job definition.

Create Docker Container:

- Build a Docker container image that includes your image processing code and any necessary libraries (e.g., Pillow for image processing).

Write Python Script:

- Write a Python script that performs image processing tasks. For example, you can create functions to resize images, add watermarks, or apply filters.

Create AWS Batch Job Definition:

- Define a job in AWS Batch that specifies the Docker image and the command to run your Python script.

Submit Batch Jobs:

- Use the AWS CLI or SDK to submit batch jobs, specifying input images and desired output locations.

Monitor Progress:

- Monitor the progress of batch jobs using AWS Batch dashboard or programmatic APIs.

Store Processed Images:

- Store processed images in Amazon S3 or another suitable storage service.

This beginner project demonstrates the basic concepts of AWS Batch and how to set up a simple batch processing pipeline.