Readme

Below are the sequence of steps to be done to build a workflow in AWS cloud.

Prerequisites: Have an AWS account set up and have a user account for Watt-Time API integration.

For this:

Step-1: Create a first lambda for the upload trigger logic given in file “S3UploadTrigger.py”. This is the file which gets triggered first for a user action i.e. Job 1. Create a trigger for this lambda with an S3 event.

Step-2: Create second lambda which calculates the best time to run the dependent Job 2 of Job 1. Use the code in the file “BestTimePrediction.py” which returns the waitTimeInSec, which us basically the duration to wait.

Step-3: Create third lambda which triggers/executes Job 2 based on the logic in file “LambdaWriteDestination” which uploads a new modified file to same bucket. (this is a sample usecase for Job 2)

Step-4: We need to define a step function using the workflow given in file “Schedule\_for\_besttime\_workflow.asl.yaml”. This workflow ARN (Amazon Resource Name) needs to be specified in “S3UploadTrigger.py” file to invoke it.

Step-5: Once the above setup is ready, we can upload any file to S3 bucket defined. The whole flow gets executed and dependent job gets triggered with a delay.