



Process flow:

1. Images are uploaded to a web application along with metadata required for BI
2. Web application calls API Gateway endpoint to post the image to a Lambda function
3. Lambda
  - a. processes metadata and writes to Redshift for BI analysis
  - b. writes the image to S3 bucket with a 7-day lifecycle policy
  - c. calls an endpoint in API Gateway pointing to the Kafka REST proxy, triggering the producer

Assumptions:

1. Cost not a factor
2. Security concerns not detailed here