Section 3 - System Architecture

Hosted on AWS ecosystem:

Images are uploaded by the user to a web app

Data is sent to AWS S3 bucket, which holds raw images

Raw images taken by AWS Lambda to do the following:
- Send to S3 bucket (archive bucket), which retain for at least 7 days
- Process image, and send to another S3 bucket (processed bucket)
- Get statistics and send to Redshift
- Send to Rekognition for analysis

Section 3 - System Architecture

Processed image S3 bucket connects to Kafka stream (Amazon MSK)

Separate web app takes from MSK, for image streaming purposes

Redshift stores data, for use in BI via QuickSight

Section 3 - System Architecture

Assumptions:

1. Images sent are automatically compressed if they exceed a fixed size (10MB)
2. Users only send images