

# ADDO<sup>®</sup>

ALL DAY DEVOPS

NOVEMBER 6, 2019

Mohamed Labouardy

CI/CD for Serverless  
Applications on AWS



Lead DevOps Engineer/Software Engineer

Open Source contributor: *Docker, Jenkins, Telegraf*, etc

Founder of Komiser - <https://komiser.io>

DevSecOps Evangelist

Author, Speaker



# Hands-On Serverless Applications with Go

Build real-world, production-ready applications with AWS Lambda



[@mlabouardy](https://labouardy.com)

<https://labouardy.com>

## DETECT POTENTIAL COST SAVINGS ON PUBLIC CLOUD

The screenshot shows the Komiser Dashboard for the user 'mohamed' on the 'Amazon Web Services' provider. The dashboard includes a search bar and navigation links for 'Dashboard', 'Compute', 'Storage', 'Network', 'Security', and 'Data & AI'. Key metrics displayed are IAM Users (42), Bill (\$ 157.05 K), Regions (5), and Alarms (13). A large section titled 'Elastic Compute Cloud' shows a world map with blue dots indicating the location of Amazon EC2 instances across various regions. Filter options for 'Cloud Provider' (Amazon Web Services) and 'AWS Account' (Production) are visible at the bottom.

+2K stars

+185K downloads

*“Stay under budget by uncovering hidden costs, monitoring increases in spend, and making impactful changes based on custom recommendations.”*

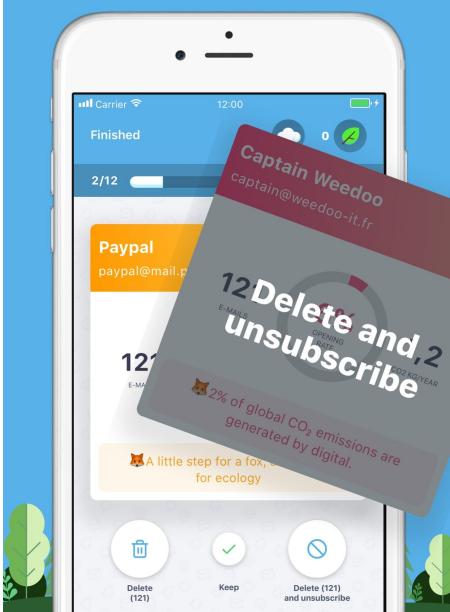


<https://komiser.io>

 foxintelligence

## Clean your newsletters

Sort out your newsletters easily by swiping right or left.

DATA ACQUISITION &  
COLLECTION

Millions of real online transaction emails anonymized and processed in real time from a panel of **2.5M consumers**

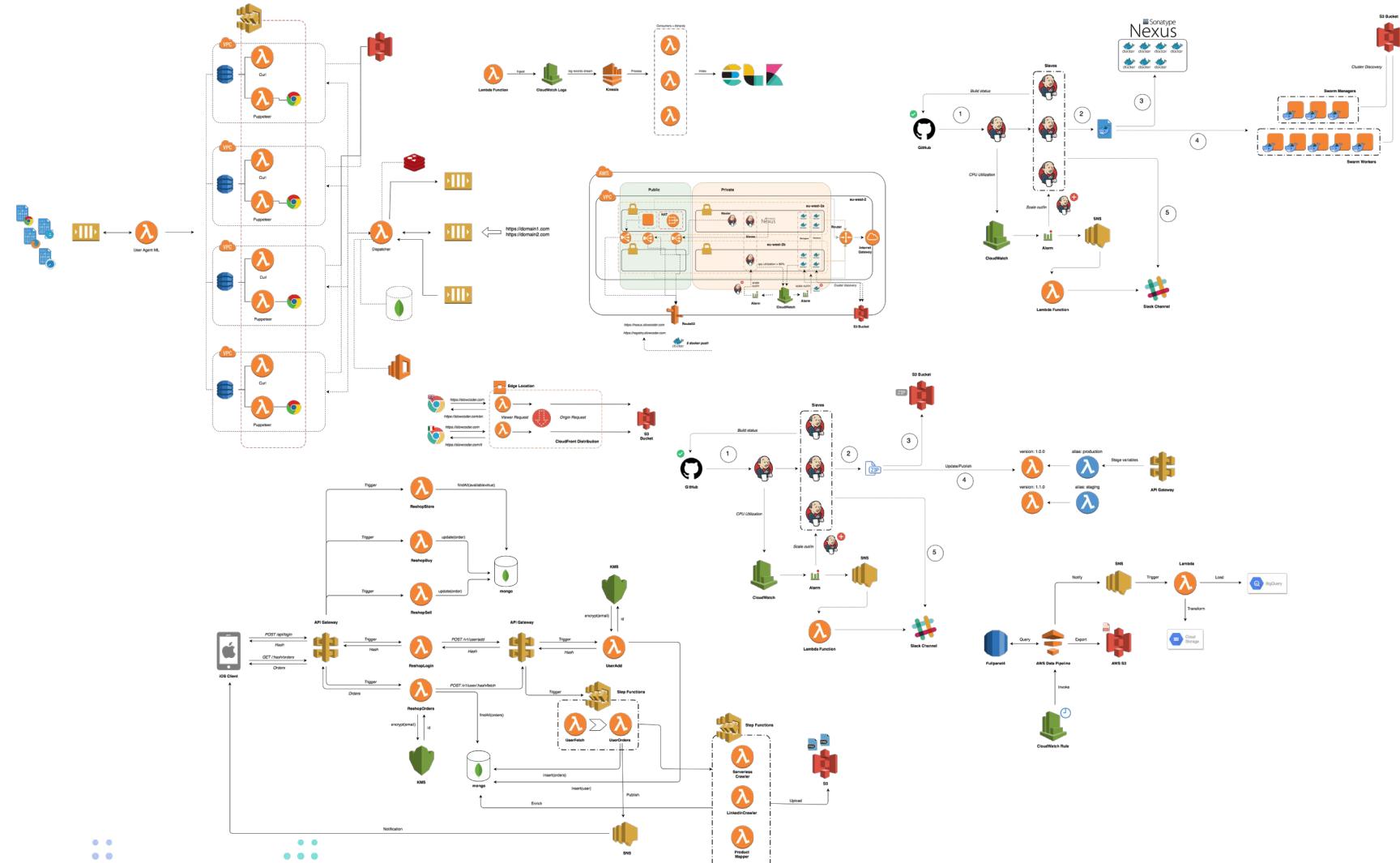
DATA PROCESSING  
& ENRICHMENT

**Billions of datapoints** processed, cleaned and enriched through machine learning, scrapping, and blending

DATA ANALYSIS  
& VISUALIZATION

**Business acumen** and **analytical skills** combined to provide game-changing insights to our clients on an intuitive platform





 foxintelligence**AWS Lambda**

+2B Invocations

**AWS EKS**

+5K Containers

**API Gateway**

+80M Requests

**ElasticSearch**

+5TB of Logs





Mohamed Labouardy in Foxintelligence inside

Jan 23 · 5 min read



## Centralized Logging System for Lambda Functions



1.7K

1 response



Mohamed Labouardy in A Cloud Guru

Jan 19, 2018 · 4 min read



## Serverless Golang API with AWS Lambda

How to create a movie website using an AWS Lambda function...



938

8 responses



Mohamed Labouardy in Foxintelligence inside

Aug 6 · 5 min read



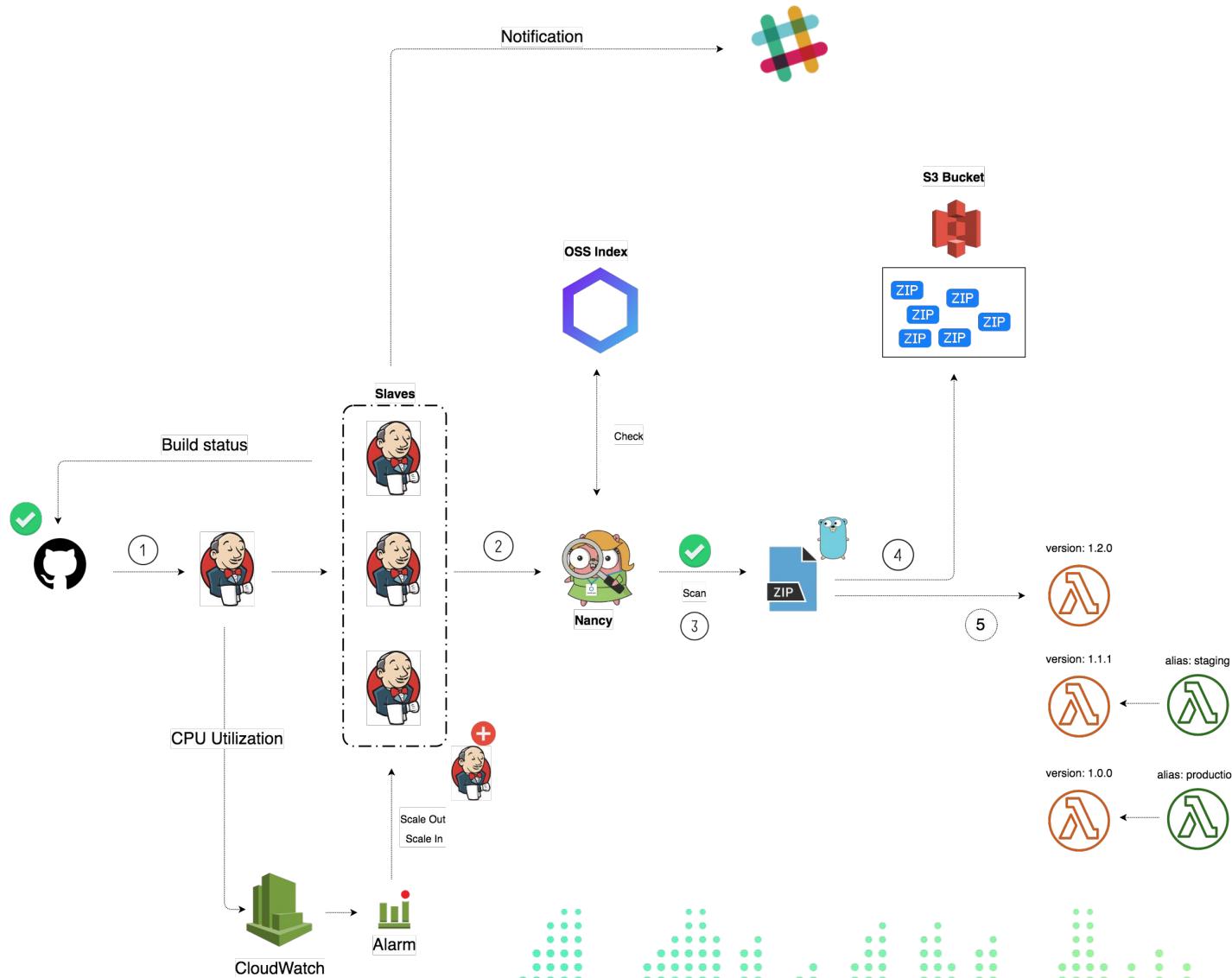
## How We Reduced Lambda Functions Costs by Thousands of Dollars

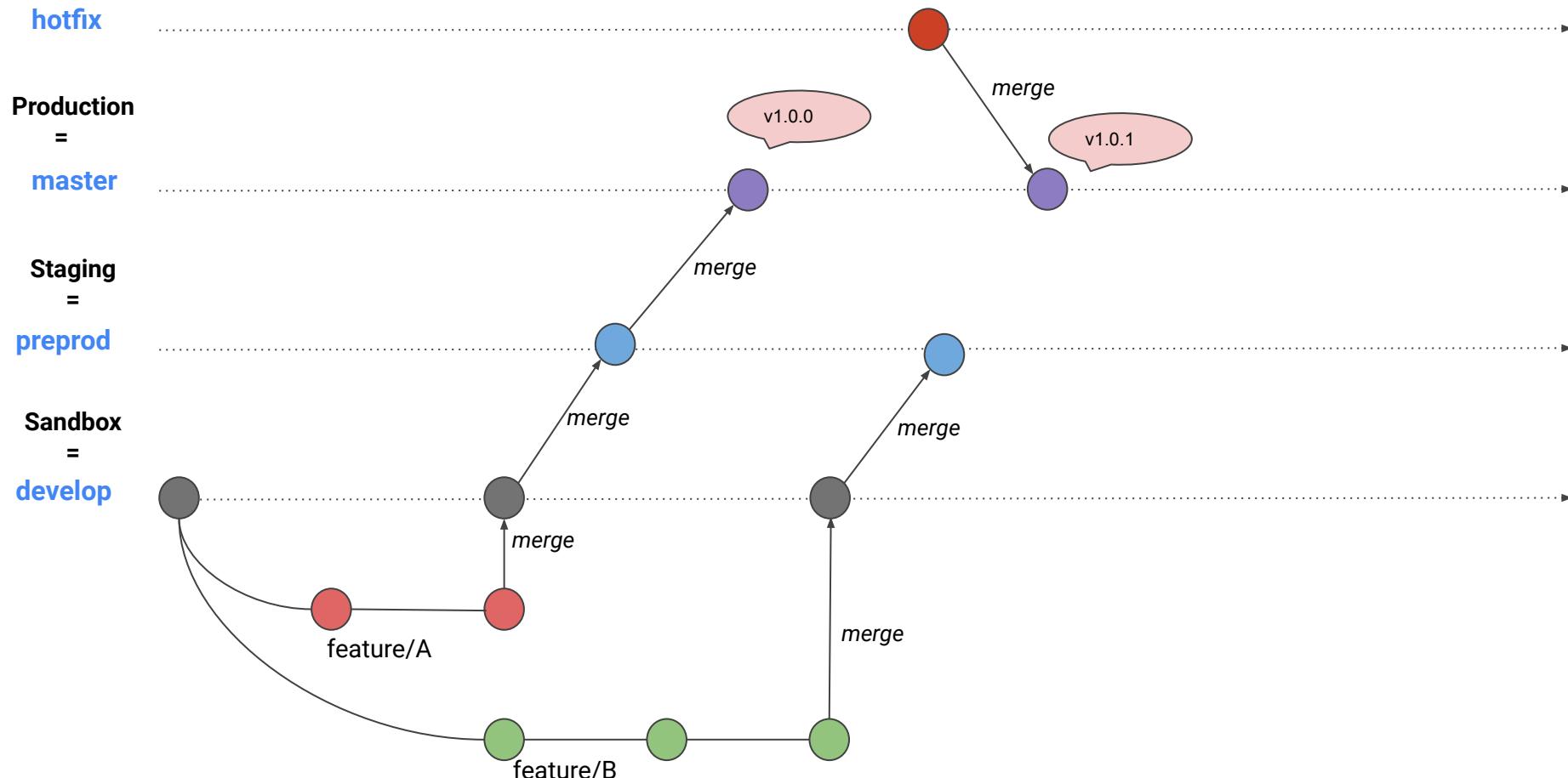


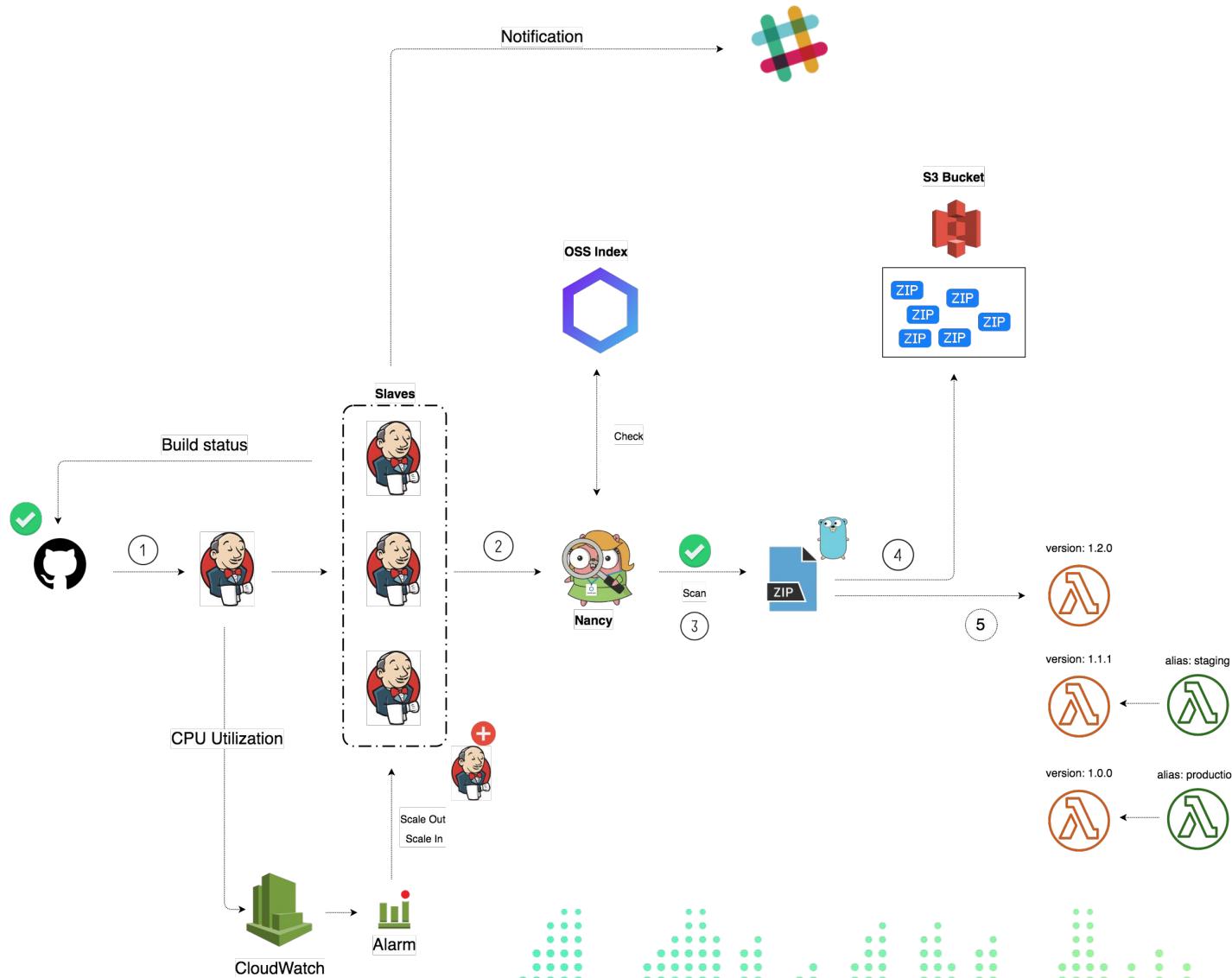
12 responses



@mlabouardy







```
node('workers'){
    try {
        stage('Checkout'){
            checkout scm
        }

        stage('Test'){
            ...
        }

        stage('Build'){
            dir('lambdas') {
                docker.build(imageName)
            }
        }

        stage('Push'){
            sh """
                docker run -d --name ${imageName} ${imageName}
                docker cp ${imageName}:/app/node_modules dist/node_modules
                zip -r ../${commitID()}.zip .
            """
            functions.each{ name ->
                regions.each{ region ->
                    sh "aws s3 cp ${commitID()}.zip s3://${bucket}/${name}/"
                }
            }
        }

        stage('Deploy'){
        }
    } catch(e) {
        currentBuild.result = 'FAILED'
        throw e
    }
}
```

Jenkinsfile



```
FROM node:8.9.3

WORKDIR /app

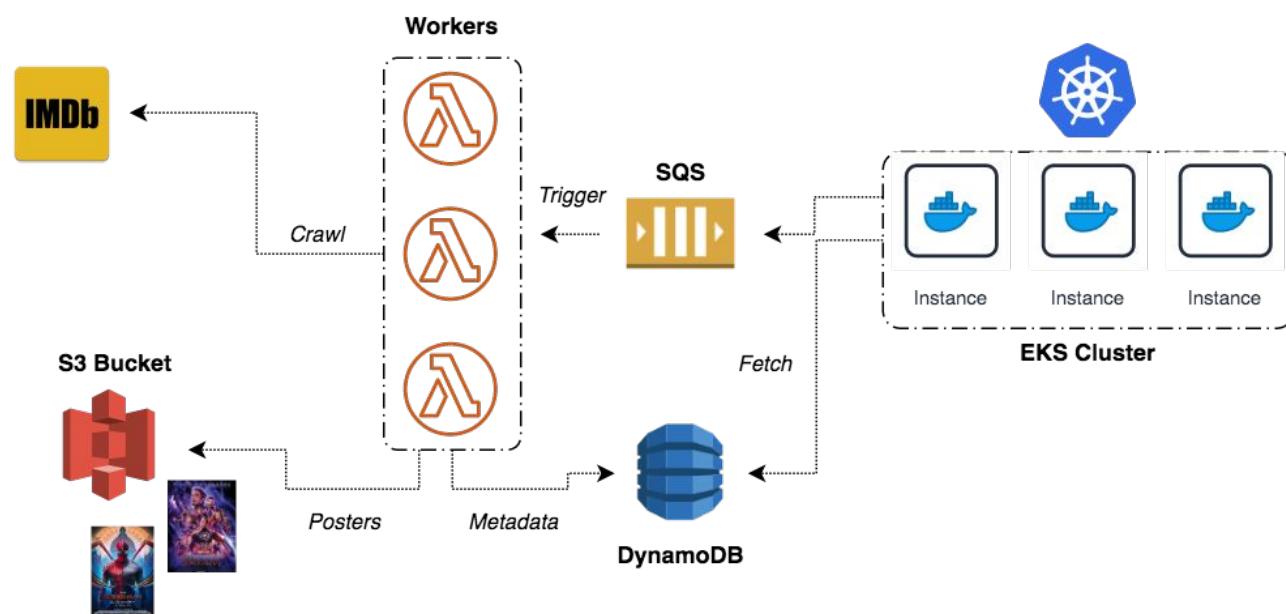
COPY .npmrc .
COPY package-lock.json .
COPY package.json .

RUN npm install --only=prod
```

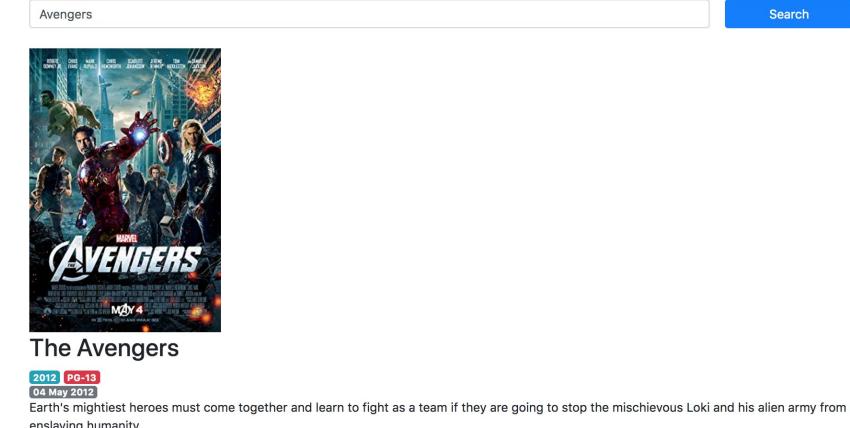
Dockerfile



Audit dependencies to keep bundle sizes small



Environment:  
**sandbox**



THANK YOU  
@mlabouardy

