**ReadMe AWS**

1. Overview

This ReadMe explains how to setup AWS in order to allow running:

* Server
* process-eng-app
* OperatorApp

No DB (only Google Sheets for now).

1. Configure AWS EC2

AWS EC2 runs server and stores process-eng static html files.

1. Open AWS Console:   
   <https://us-east-2.console.aws.amazon.com/console/home?region=us-east-2>

Use root user to enter.

1. Type “EC2” at the search bar at the top.  
   Enter EC2 Dashboard.
2. At the left bar click “Instances”->”Launch Instances” (button).  
   This will take you to the creating new instance.  
   A screenshot of a computer

   AI-generated content may be incorrect.

Type name (ProductionEC2) and choose “Ubuntu”.  
A screenshot of a computer

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Create new key pair (save downloaded file).

A screenshot of a computer screen

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At the “Network settings” section check the “Allow HTTP traffic from the internet”.  
 Click “Launch instance”.A screenshot of a chat

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1. Allocate “Elastic IP” and associate it to new instance.  
   Click “Elastic Ips” at the left bar:  
   A screenshot of a computer

   AI-generated content may be incorrect.

Allocate Elastic IP Address:  
A computer screen shot of a computer screen

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Check the Elastic IP just created and click “Associate Elastic IP address” at the “Actions” menu.  
Choose both name and private IP of the instance just created.

1. Go to “Instances”, check the just created instance and check that it has an Elastic IP” (scroll to the right).
2. With the checked instance click “Connect”.

New tab is open with the ubuntu cmd window. At the cmd wnd do:

1. Handling server

nano linux-server-ec2-establish.sh

*<Paste contents of linux-server-ec2-establish.sh (at source control, AWS folder)>*

*<Save and exit>*

chmod +x linux-server-ec2-establish.sh

./linux-server-ec2-establish.sh https://github.com/JuliaF929/ProductionRepo.git ProductionEC2 ProductionServer

sudo systemctl status ProductionServer.service –no-pager *#validation that the server is running*

cd /opt/ProductionEC2/server

nano .env

*<Paste contents of .env (at source control, server folder)>*

*<Save and exit>*

cd dal/sheets

nano productionapp-463314-77556795ce19.json *#google Sheets config file*

sudo systemctl daemon-reload

sudo systemctl restart ProductionServer.service *#restart the server*

1. Handling process-eng-app

cd /home/ubuntu

nano linux-process-eng-app-ec2-after-server-establish.sh

*<Paste contents of linux-process-eng-app-ec2-after-server-establish.sh (at source control, AWS folder)>*

*<Save and exit>*

chmod +x linux-process-eng-app-ec2-after-server-establish.sh

./linux-process-eng-app-ec2-after-server-establish.sh *"<put here the Elastic IP allocated>*" ProductionEC2 process-eng-app 5000

Open browser with:   
http://<Elastic IP>  
and enjoy playing 😉

1. Database

Calibrix platform currently uses:

* Google Sheets (will be replaced by SQL)
* MongoDB
  1. Google Sheets

No install required.

* 1. MongoDB

TODO: explain installation of MongoDB Compass at AWS

1. Configure AWS S3

AWS S3 is a AWS storage that will store files (zips for the test applications and pdfs for test reports).

1. Open AWS Console:   
   <https://us-east-2.console.aws.amazon.com/console/home?region=us-east-2>

Use root user to enter.

1. Type “S3” at the search bar at the top.  
   Enter S3 Dashboard.
2. A screenshot of a computer

   AI-generated content may be incorrect.This step is one-time action, only if the AWS S3 is created from scratch:
   1. General purpose bucket

Create General purpose bucket.

* The name shall be unique across any general purpose bucket at the whole AWS.
* If the name of the bucket will differ from “production-julia-s3”, code of the server shall be changed, since this name is hardcoded.  
  Try to use the same name.
* During bucket creation use all default settings.
  1. Permissions for “production-julia-s3”

In order to allow uploading files to the bucket from different IPs, special permissions shall be set.

* Enter “Permissions” tab:
* A screenshot of a computer

  AI-generated content may be incorrect.Scroll down to the “Cross-origin resource sharing” (CORS)
* A screenshot of a computer

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For only development work insert:

*[*

*{*

*"AllowedHeaders": [*

*"\*"*

*],*

*"AllowedMethods": [*

*"GET",*

*"PUT",*

*"POST",*

*"HEAD"*

*],*

*"AllowedOrigins": [*

*"http://localhost:3000"*

*],*

*"ExposeHeaders": [*

*"ETag"*

*]*

*}*

*]*For production add TBD.