**Home assignment**

The goal:

Develop Jenkins pipeline that takes employee.csv file(attached) from S3 and insert it to PostgreSQL table.

You are required to implement this on AWS free tier account using EC2 free tier and S3 based on Docker.

The result should be on the PostgreSQL side:

Graphical user interface, text

Description automatically generated

Please add dummy employee (your name with fake fields and show it to me by print screen).

On the Jenkins Side please attached the Jenkins successful log.

Prerequisites

• Open account on GitHub (in the end of the task please share to code with me).

• Implement AWS environment.

Make sure you are working on the free tier, no need to pay.

• Set up an S3 bucket and put it inside the employee.csv file.

• Install one of the Linux free tier eligible EC2, for example:



Make sure to allow SSH access only for your IP and not for 0.0.0.0.

Moreover, please check your connectivity between the EC2 to S3.

On the EC2:

* Install Docker.
* Implement PostgreSQL Docker and make sure that you are allowed to login. You can choose the username, password and the dbname.
* Implement Jenkins docker and install what’s required for this task.
* Set up Jenkins to work with your GitHub project.
* Write a code that takes the employee.csv from s3 and insert it as a table to your PostgreSQL database.

Inside the Jenkins job the following params should be present:

S3\_file\_path – this location of the attached file exployees.csv

Branch- the GitHub branch name your code stores

Host\_ip – EC2 host IP. This will serve you for the connection between the dockers.

Graphical user interface, text, application, email

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Good luck