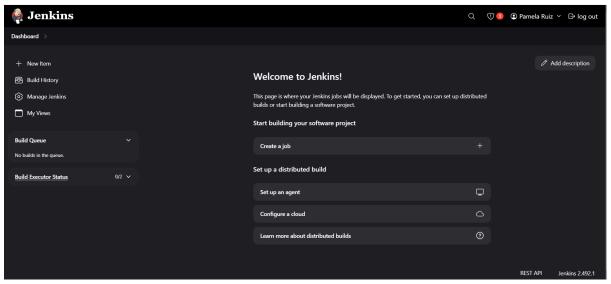
- 1. I've downloaded the installer for windows (.msi)
- 2. I've executed the installer and follow the instructions
- 3. Jenkins is running in localhost, port 8080



- 4. Once Jenkins is installed, I need to set up my Node.js project. I chose to download the test project from the link provided in the description of the task.
- The project is saved in the following link https://github.com/PameRuiz/DevOps/tree/main/Jenkins-CI. Jenkinsfile has been added here.

The content of Jenkinsfile is:

```
pipeline {
    agent any
    stages {
        steps {
            checkout scm
        }
    }
    stage("Install") {
        steps {
            bat 'cd Jenkins-CI & npm install'
        }
    stage("Test") {
        steps {
            bat 'cd Jenkins-CI & npm test'
        }
    }
}
```

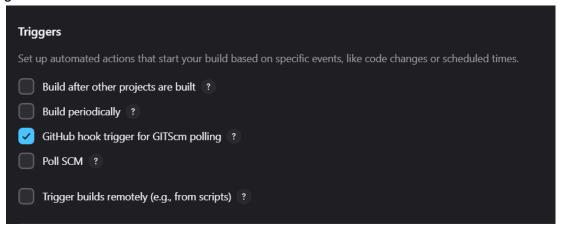
This file is configured to run in any agent available. It is running on my local machine so there is only one agent for the moment.

- 6. For configuring the webhook I needed to make some changes.
 - a. Since I had my Jenkins server running locally. I had to use ngrok for making it accessible from Internet

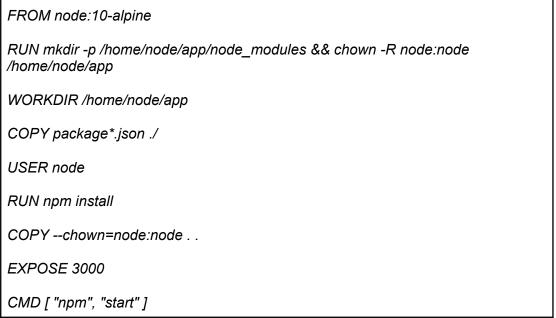
b. In github I created a new webhook with the following data

Payload URL *	
https://92f0-180-216-150-227.ngrok-free.app/github-webhook/	
Content type *	
application/json	

c. In jenkins I set the configuration in the job for being triggered by changes in github



- d. Once everything was configured I was able to test the trigger by sending changes to the project
- 7. After configuring Jenkins and the pipeline. I have made a new Jenkinsfile running with docker. The objective was to build a docker image for running my app.
- 8. For doing this first I prepared a Dockerfile. It was based on an image with alpine and node already installed. I have created my node_modules folder, copied the package.json, run npm install and expose the port where the app will be running



9. Testing this file locally was possible running the following command **docker build . -t myapp:latest** (this command will be run by Jenkins later)

- 10. for testing that everything went alright I run docker run -p 3000:3000 myapp with the -d option I am binding the port so I can access from my machine.
- 11. After building and testing the container the Jenkinsfile will look something like this:

```
pipeline {
    agent any
    stages {
        steps {
            checkout scm
        }
     }
    stage('Install') {
        steps {
            bat 'cd Jenkins-CI & docker build . -t myapp:latest'
        }
    }
}
```