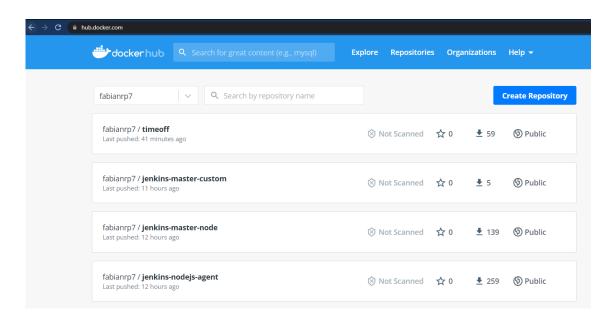
## Hacker Rank - Proactive DevOps Engineer - Fabian Alejandro Rodriguez Peñuela

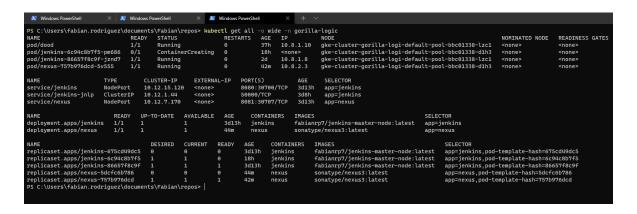
## 1. Installation tools

- a. Create docker images with necessary components
  - i. docker-images/jenkins-master-node.dockerfile
  - ii. docker-images/jenkins-linux-node.dockerfile

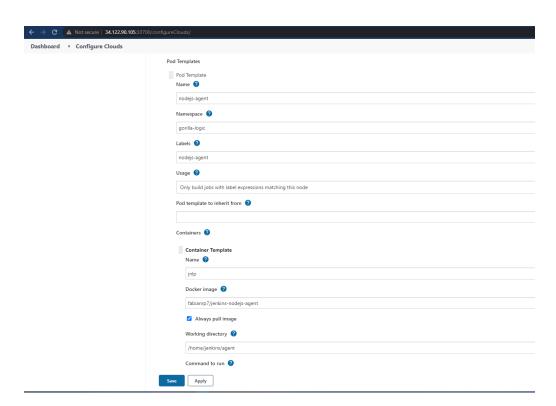
## b. Build and publish images



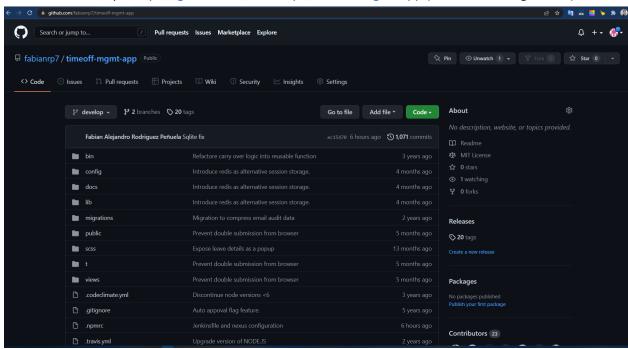
- c. Deploy Jenkins, nexus and Docker In Docker, in Kubernetes
  - i. k8s-deplyments/docker-in-docker-deployment.yaml
  - ii. k8s-deplyments/jenkins-deployment.yaml
  - iii. k8s-deplyments/nexus-deployment.yaml

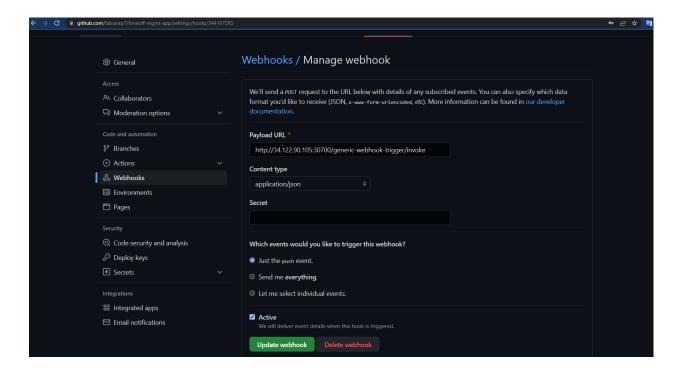


d. Jenkins kubernetes cloud and nodejs-agent configuration



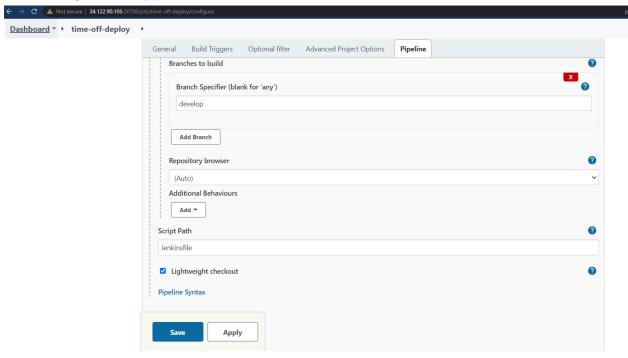
e. Repo https://github.com/fabianrp7/timeoff-mgmt-app (Webhook configuration)





f. Jenkins shared lib creation <a href="https://github.com/fabianrp7/jenkins-shared-lib">https://github.com/fabianrp7/jenkins-shared-lib</a>

g. Jenkins pipeline creation



GCP require authentication of user through web browser, from each machine that use a config file to connect to GCP clusters, based on that, I decided to use the master node to run the pipeline instead of on-demand nodejs-agent

```
PS C:\Users\fablan.rodrigue\documents\Fablan\reps> kubectl evec -it node;s-agent-dssh3 - /bin/sh

# kubectl get all -o wide -n portlat-logic

# row for the many logged in to the server ((nauthorized))

# cat /rost/ kube/config

# a cat /rost/ kube/config
```