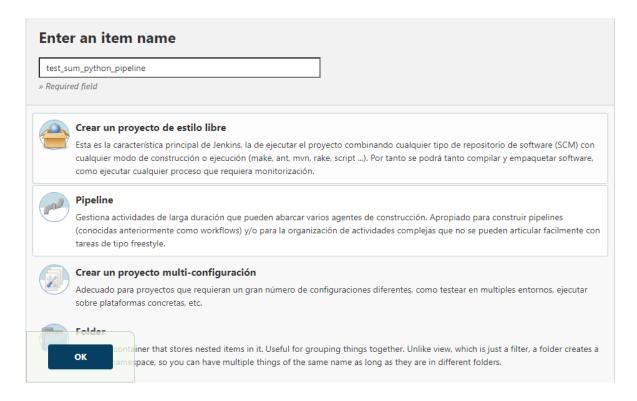
## **Creating a simple CI with Jenkins**

Create a new Jenkinsfile in the root folder and create a pipeline:

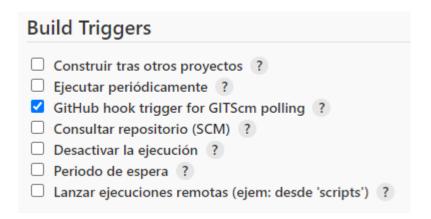
```
Jenkinsfile
     pipeline {
          agent any
          stages {
              stage('hello-world'){
                  steps{
                      script {
                          sh 'cd jenkins-example && python3 hello-world.py'
11
              stage('Test'){
                  steps{
                          sh 'cd jenkins-example && python3 sum test.py'
          }
          post{
              failure{
                  echo 'The pipeline failed.'
          }
```

## **Configuring Jenkins Job to connect with GitHub**

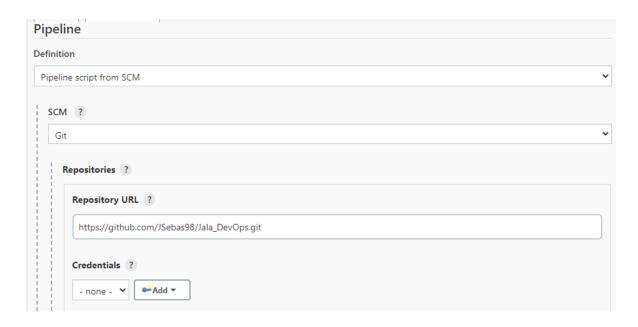
Create a new Job and select Pipeline. Add a descriptive name.



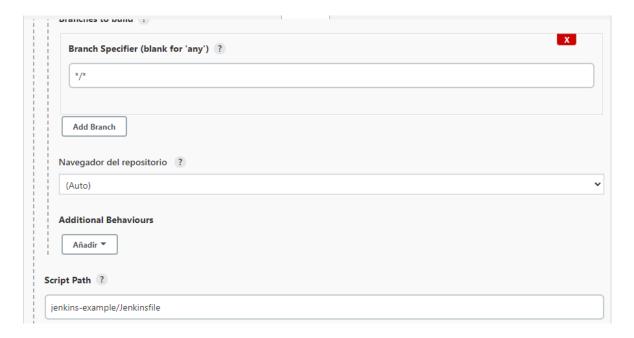
Choose "Github hook trigger for GITScm polling" option.



In the Pipeline block choose "Pipeline script from SCM," then choose "Git" in SCM and add the link to the GitHub repository in Repository URL.



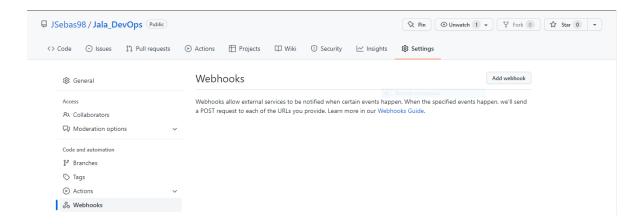
Write "\*/\*" in the Branch Specifier blank so that Jenkins will check all branches.



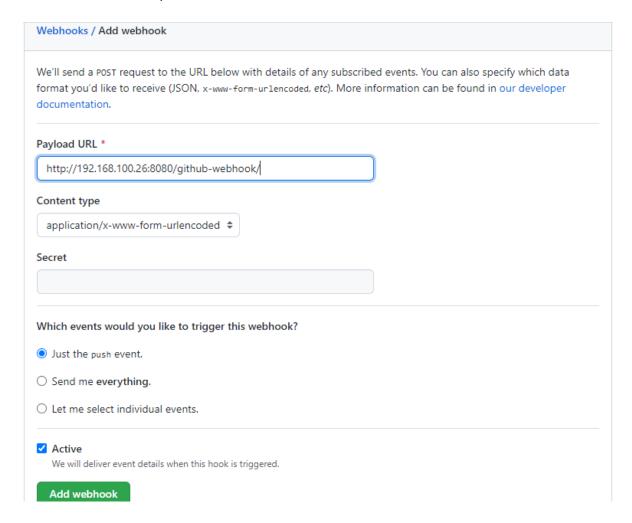
If the Jenkinsfile is not on the root directory in the repository, make sure to add the right path to it in Script Path.

## **Configuring GitHub to connect with Jenkins**

Create a Webhook in your GitHub repository by going to Settings/Webhooks/Add webhook:



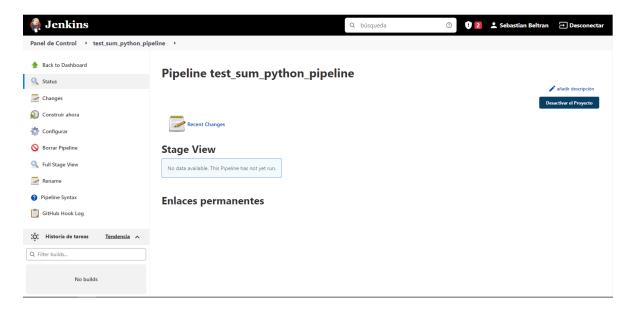
Add Jenkins URL (generally <your\_machine\_IP:<port>) followed by /github-webhook/ in Payload URL. Make sure to select the option "Just the push event" and mark the "Active" option. Then click on "Add webhook".



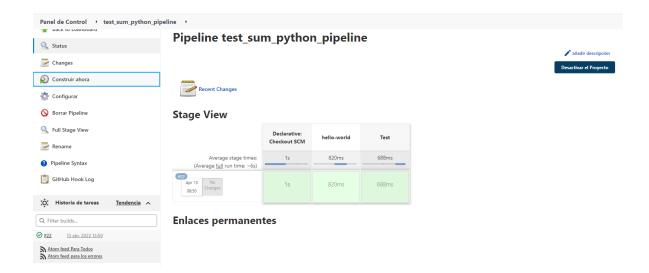
## **Testing the connection**

Make a commit to the GitHub repository

Access the job dashboard in Jenkins



Build the job by clicking on "Build now". If everything is configured right, all stages should be green.



Inside the "Build History" there should be the record of the executed job. Click on the green tick (or the red cross if there is any error) to check the console output.

