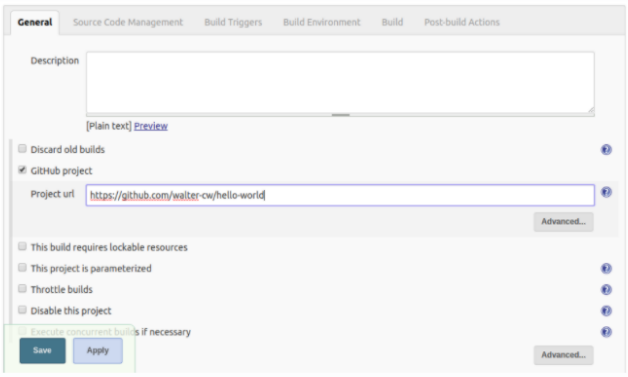
Integrate with GitHub Webhook

Webhook allow external services to be notified when certain events happen within your repository. When the specified events happen we'll send a POST request to each of the URLs you provide.

We will create a new item and then use our own GitHub codes to trigger the build. We will see that when we change our GitHub codes, the build will automatically start without waiting. When our code changes, GitHub's Webhook will tell Jenkins that the code is changed, so the build will occur immediately.

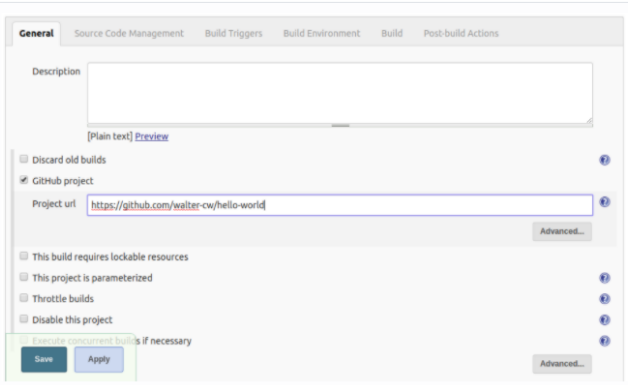
1. Create a new item

2. You can enter the GitHub project.



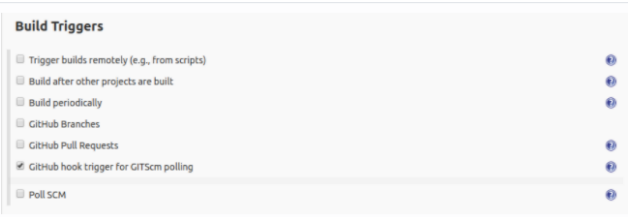
Enter Github

3. Check the GitHub Project from **Source Control Management** then enter your GitHub repository URL.



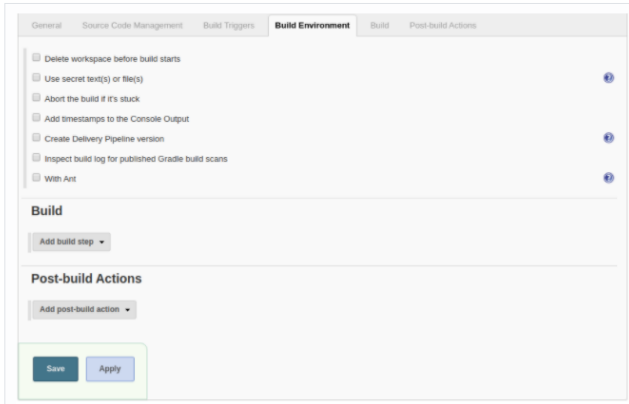
Github Repo Source

4. Then from Build Triggers click on **GitHub hook trigger for GITScm polling**



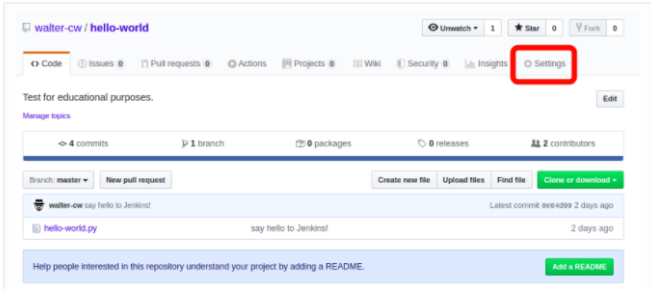
GitHub hook trigger

4. You can add build steps. But for this example, we want to show you how to trigger GitHub Webhook. So we will not add build command. After that please click on **apply** and **save**



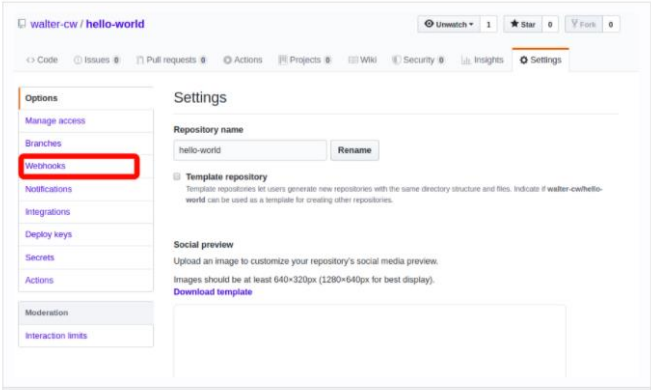
Apply and Save

5. Go to your **GitHub repository page** then click on **Settings**.



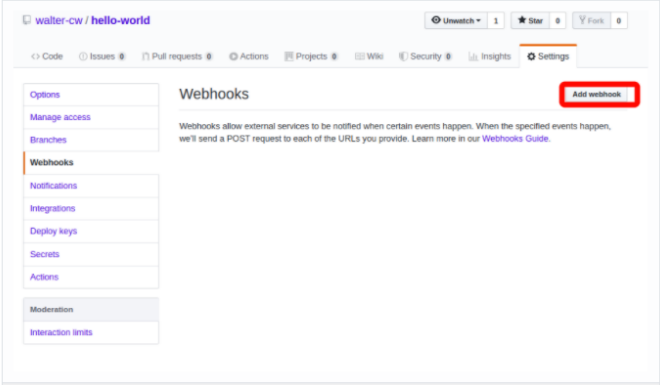
Github Settings

6. You will see **Webhooks** from settings menu. Click on Webhooks.



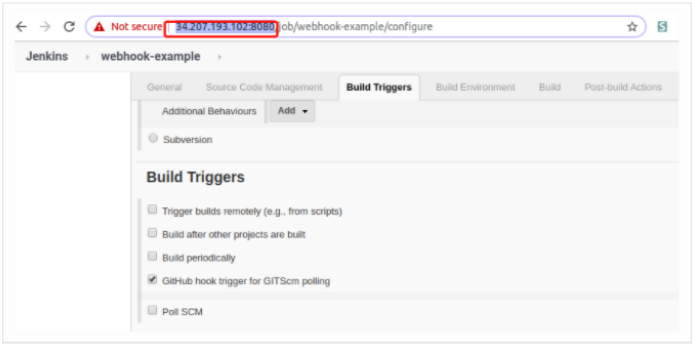
Webhooks

7. Click on **Add webhook**.

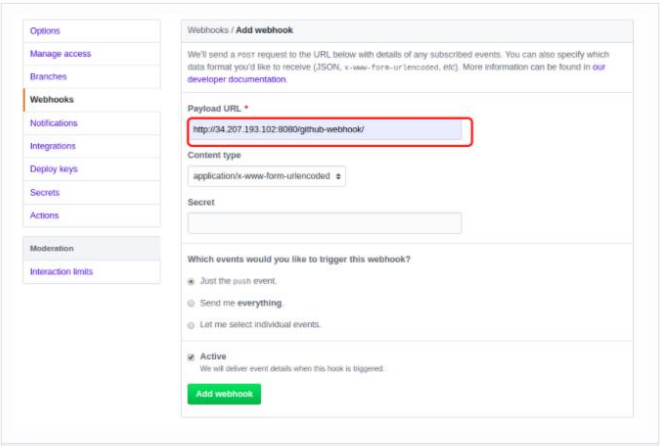


Add Webhooks

8. Copy to your Jenkins URL and paste into **Payload URL** section. Be careful, you can't use localhost:8080. But you can use your EC2 machine's Jenkins URL. You must add **/github-webhook/** at the end of your URL. Then click on **Add Webhook**

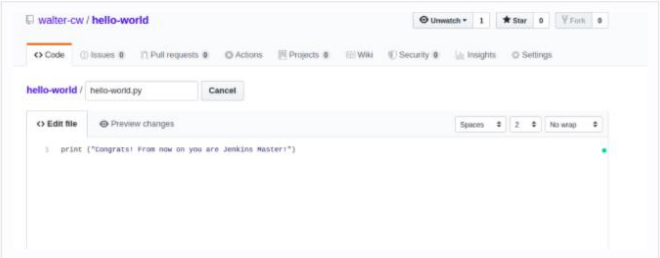


Take Jenkins URL



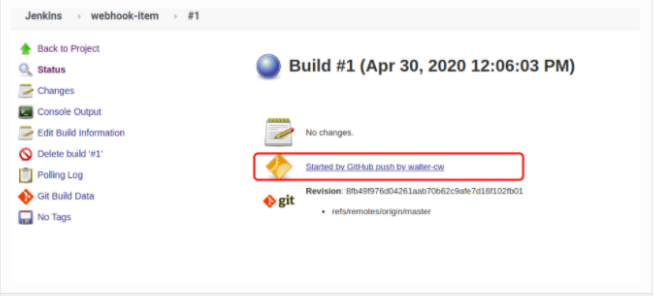
Write URL to Payload URL

9. Go back to your repository and make changes at your code (make commit).



Edit your code

10. When you change your repository. Github webhook understands the changes and immediately tells your Jenkins to update the project. Then Jenkins will automatically start a new build. You will see that the build is started by GitHub.



New Build Console Output

Complementary Lesson about Build Your First Job