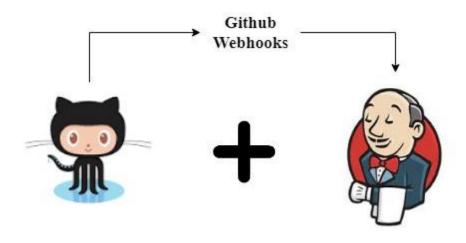
Triggering a Jenkins build on push using

GitHub webhooks



Jenkins Github Integration

Jenkins is a popular open source tool to perform continuous integration and build automation. Let's take a look at how we can integrate **GitHub** with Jenkins for **source code** management and trigger build on push using web-hooks.

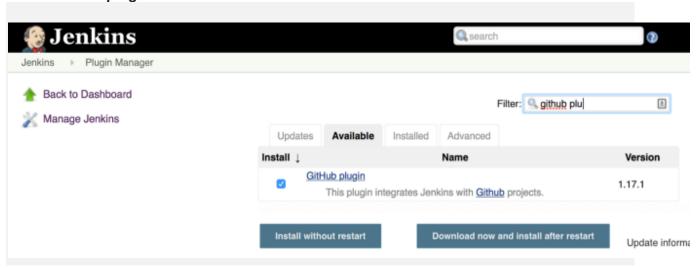
d

Prerequisites:

- 1. **Jenkins**: Download and install Jenkins as described *here*.
- Git: Install Git. To check whether you have git installed, open a terminal window and type below command. git --version
- 3. Plugins: Add Git and GitHub Plugins.

Go to Manage-Jenkins-> Manage Plugin

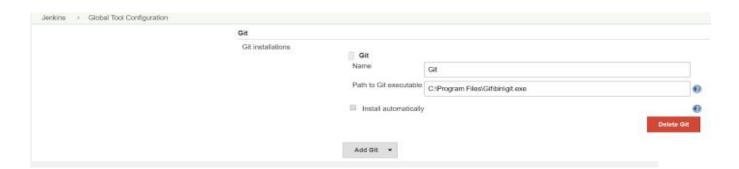
search Github plugin and install without restart



Plugin Manager

4. Go to Manage Jenkins -> Global Tool Configuration -> Git

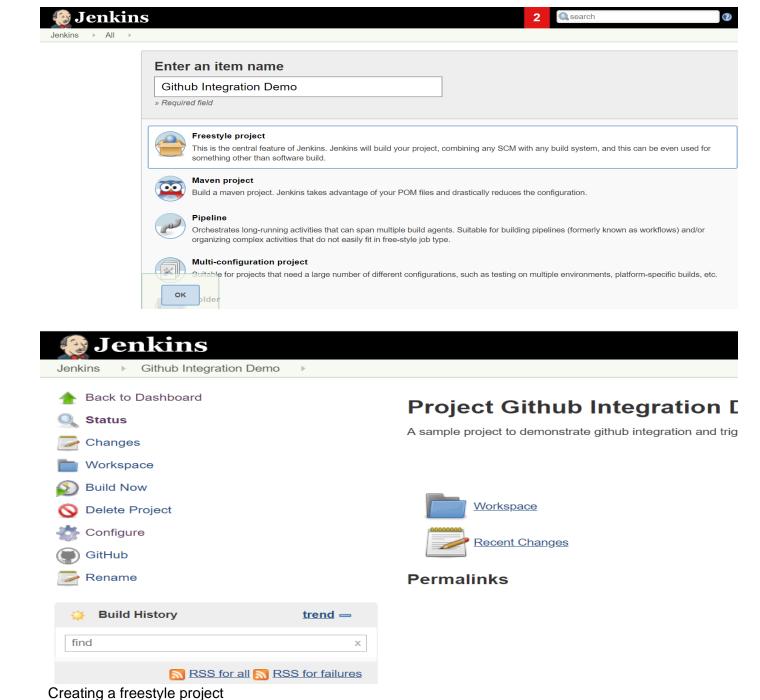
Add git executable path to Global Tool Configuration.



Global tool configurations

Let us start with creating a Freestyle Project :

Step 1: Go to New Item -> create a freestyle project.



Step 2: Go to Configure, add a project description, and Github project URL.

Step 3: In **Source Code Management** tab select on **Git**, add your Github repository URL and click Add button to save your GitHub credentials.

Save and click build to make sure everything is right till here and your project is successfully building.

step 4: In Build Triggers select GitHub hook trigger for GITScm polling. When Jenkins will receive PUSH GitHub hook, it will trigger Git SCM polling logic which will start a new Jenkins build, with the updated code.

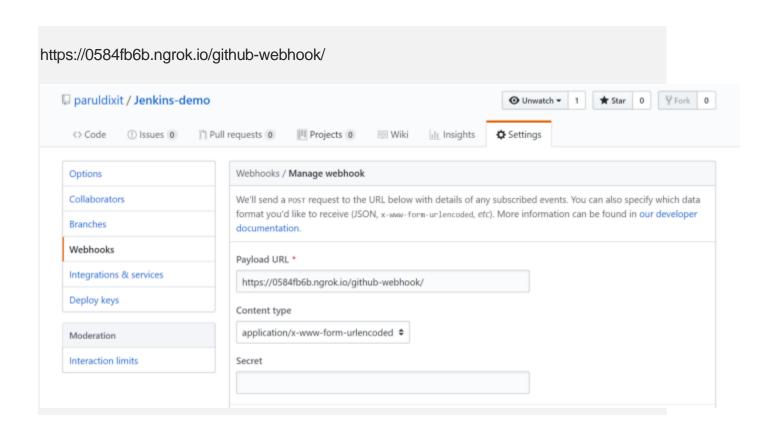


Build Triggers

We use <u>ngrok</u> to expose local jenkins to the internet, so that github can send the webhooks.

Step 5: Go to your Github repo -> settings -> webhooks

Add public URL of your tunnel as **Payload URL**, it will tell Github where to send the webhooks as below:



step 6: Finally add your build steps in the Build tab and save.

That's all! Now whenever any change is pushed, a new Jenkins build will be triggered.