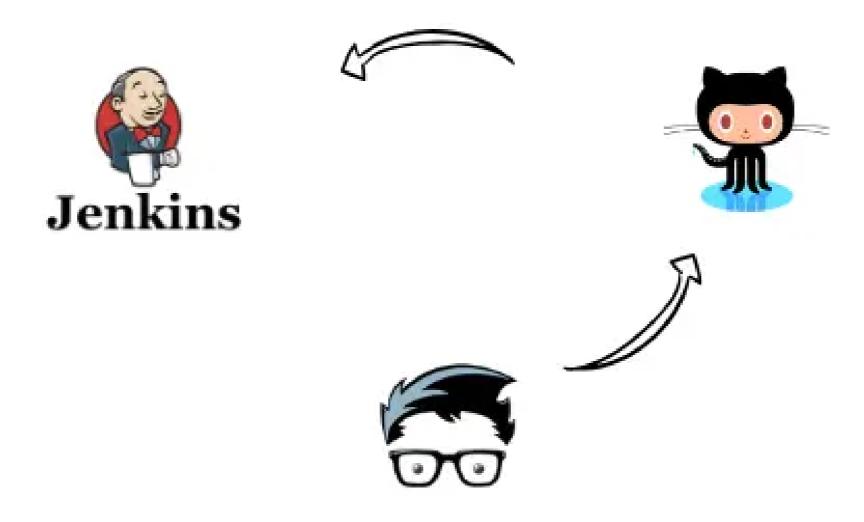


# Jenkins Automated Build Trigger On Github Pull Request

by **devopscube** · June 16, 2020



Building projects based on pull request is something you cannot avoid in CI/CD pipelines. Nowadays every team does several deployments/operations per day and lots of builds have to happen in this process.

Also, the teams work on the same repo collaborating code require faster code integrations. So it is better to have an automated build process that kicks off the CI/CD pipeline on a pull request rather than manually triggering the jobs.

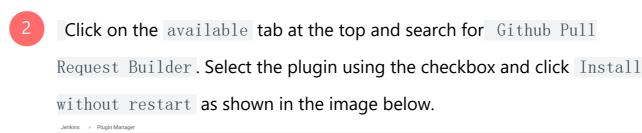
# **Trigger Builds Automatically On Github Pull Request**



**Note:** Multipbranch Pipeline is the best way to achieve Jenkins pull request based workflow as it is natively available in Jenkins. Check out this article on the multibranch pipeline for setup and configuration.

#### Install Github Pull Request Builder Plugin





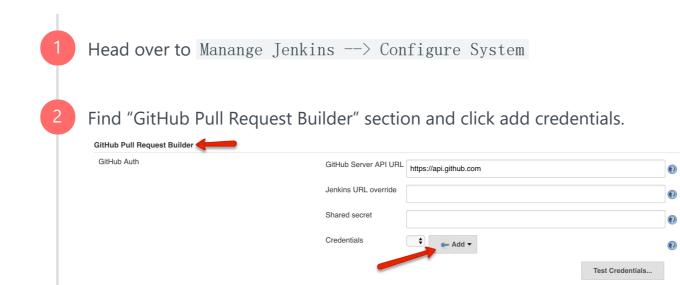


Once the plugin is installed, select the restart checkbox as shown in the image below.



#### Github Pull Request Builder Configuration

Once Jenkins is restarted, follow the steps given below for configuring the plugin with your GitHub account.

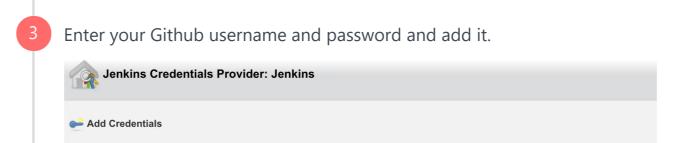


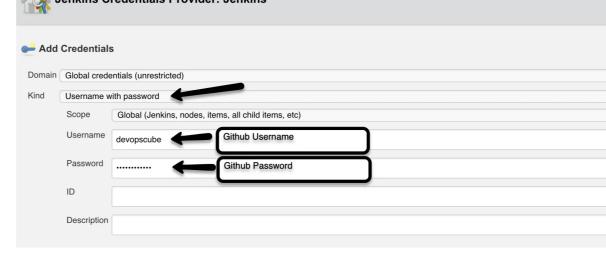


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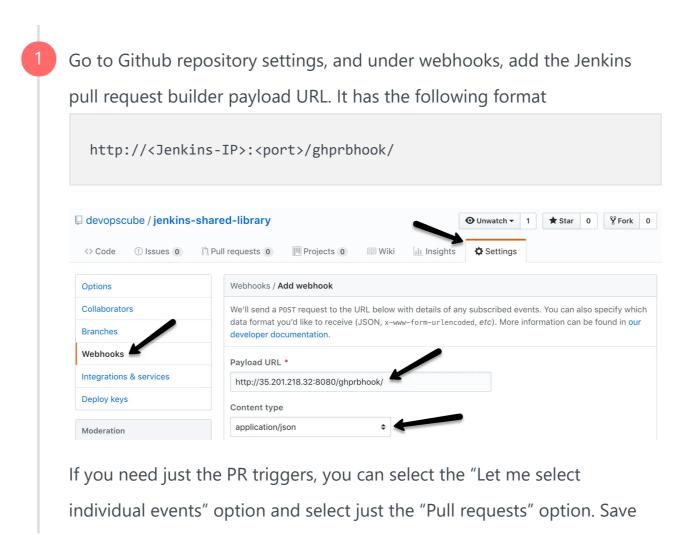


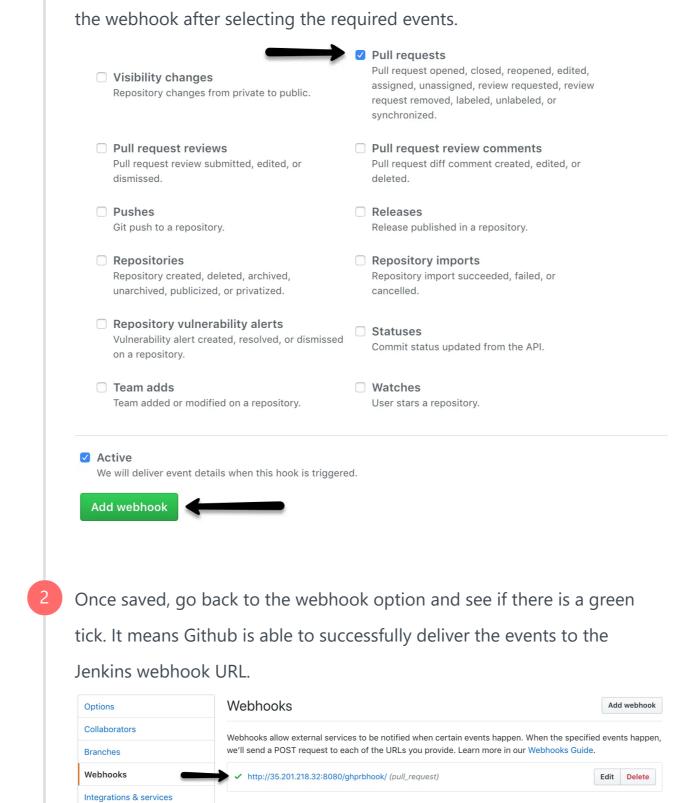
You can test the Github API connection using the test credentials button. It should show "connected" as shown below. Save the configuration after testing the API connection.



#### **Github Repo Webhook Configuration**

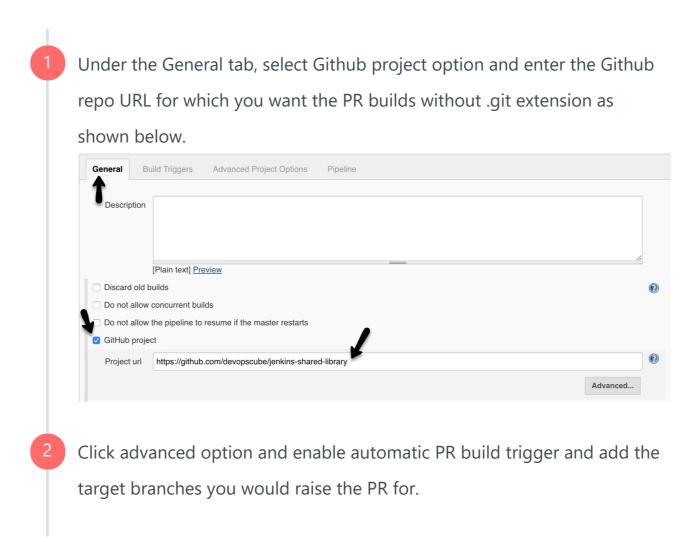
For Jenkins to receive PR events through the pull request plugin, you need to add the Jenkins pull request builder payload URL in the Github repository settings.

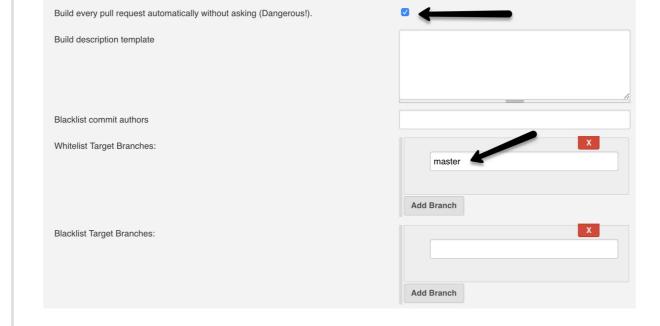




#### Job Configuration for Automated Pull Request Builds

Lets get started with the build job configuration for PR plugin.





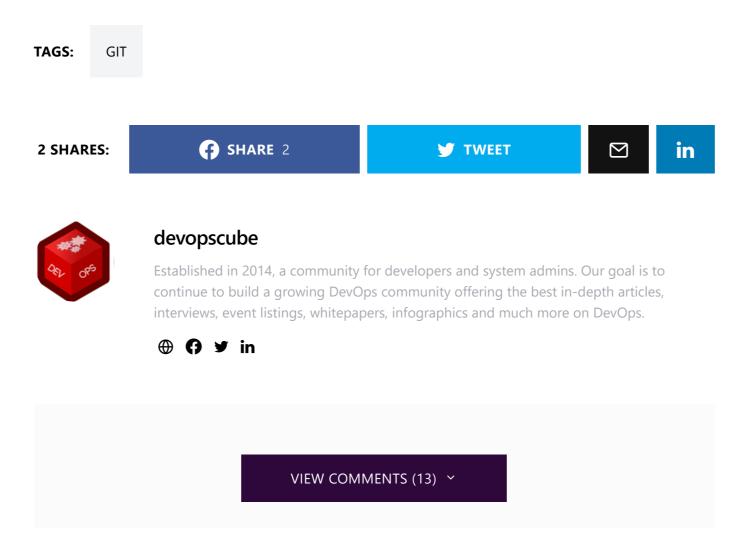
- Add your pipeline build steps and save the configuration.
- Now raise a PR against the whitelisted branch you have given in the Jenkins PR trigger settings. You should see the job getting triggered on Jenkins.

#### Other Jenkins PR based Build Workflows

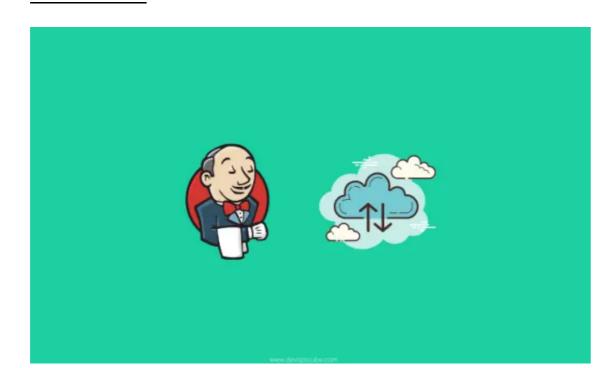
Github Pull request builder plugin is not actively developed as the same functionality is being provided by multi-branch pipelines and Github organisation project.

There is also a Generic Webhook Plugin that can be used to trigger Jenkins jobs on a Pull Request.

Also, you can write custom API endpoints that accept Github webhooks and process PR requests to trigger Jenkins job remotely. Custom APIs help only when the native Jenkins functionalities are not providing the workflow you are looking for.









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by **Bibin Wilson** · June 14, 2021

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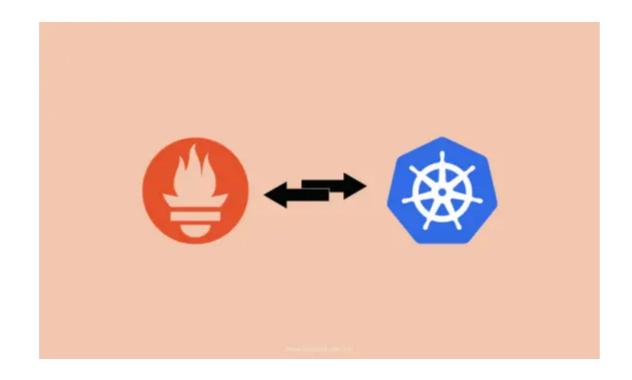




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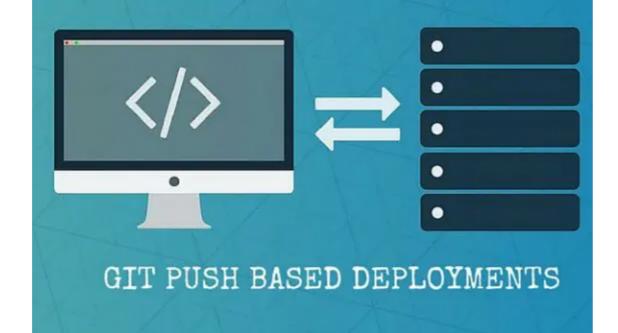


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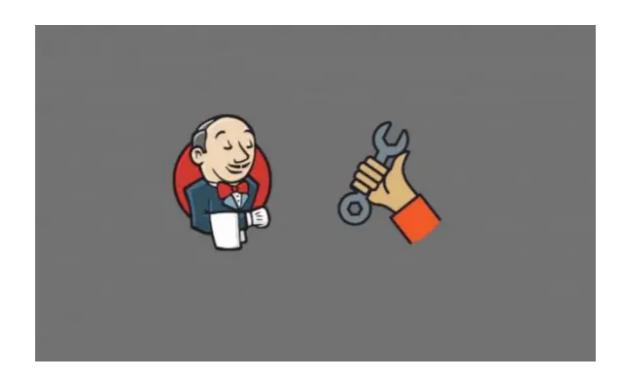


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