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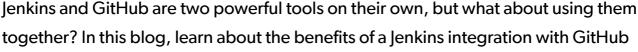
July 21, 2022

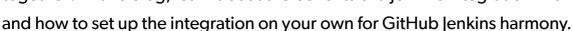
GitHub + Jenkins: How to Integrate Your GitHub Repository to Your Jenkins Project

OPEN SOURCE AUTOMATION













- Can You Use GitHub + Jenkins?
- Why Do a GitHub-Jenkins Integration?
- o How to Set Up the Jenkins + GitHub Integration
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Can You Use GitHub + Jenkins?

You can and should use Jenkins with GitHub to save time and keep your project up-to-date.

One of the basic steps of implementing CI/CD is integrating your <u>SCM (Source Control Management) (https://www.blazemeter.com/blog/scm-version-control)</u> tool with your CI tool. This saves you time and keeps your project updated all the time. One of the most popular and valuable SCM tools is GitHub.

Related Reading: <u>Explore Five Advantages Your Peers are Discovering with</u>

<u>Continuous Testing >> (https://www.blazemeter.com/resources/advantages-continuous-testing-peers)</u>

What is GitHub?

GitHub is a Git-based repository host, commonly used for open-source projects. GitHub enables code collaboration, hosting, and versioning.

What is Jenkins?

Jenkins is an open-source Continuous Integration and Continuous Deployment (CI/CD) tool for automating the software development life cycle (SDLC). With <u>Jenkins</u>

<u>testing (https://www.blazemeter.com/solutions/jenkins)</u>, teams can automate the





Why Do a GitHub-Jenkins Integration?



A Jenkins integration with GitHub will improve the efficiency of building, testing, and deploying your code.



The integration presented in this blog post will teach you how to schedule your build, pull your code and data files from your GitHub repository to your Jenkins machine, and automatically trigger each build on the Jenkins server after each Commit on your Git repository.

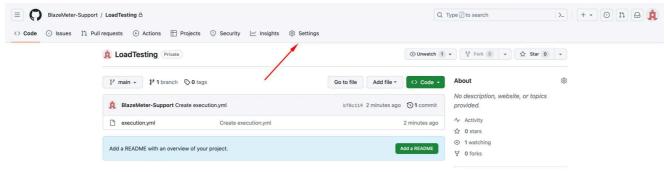
But first, let's configure the Jenkins and GitHub integration. Let's begin with the GitHub side!

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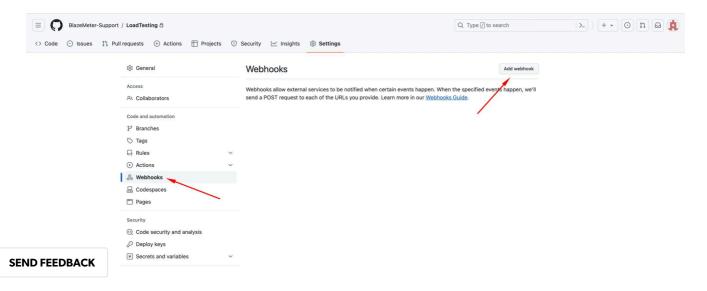
How to Set Up the Jenkins + GitHub Integration

Configuring GitHub

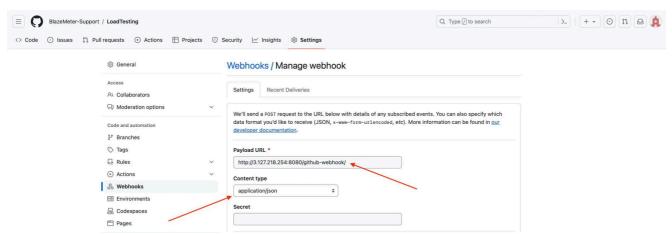
Step 1: go to your GitHub repository and click on 'Settings'.



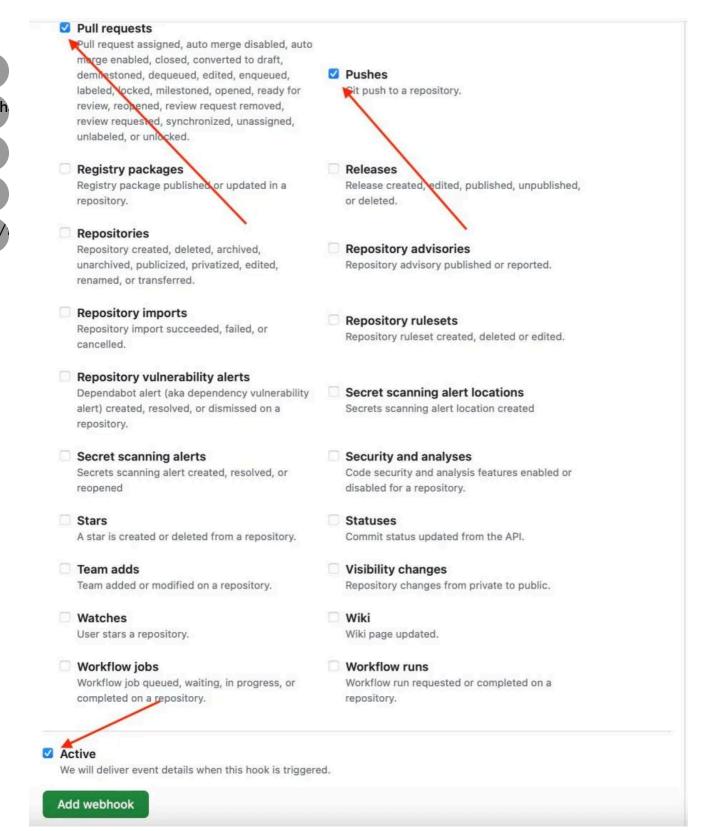
Step 2: Click on Webhooks and then click on 'Add webhook'.



Step 3: In the **'Payload URL'** field, paste your Jenkins environment URL. At the end of this URL add */github-webhook/*. In the **'Content type'** select: *'application/json'* and leave the **'Secret'** field empty.



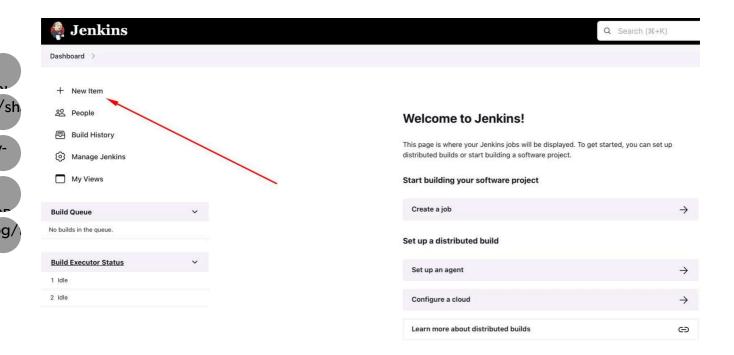
Step 4: In the page 'Which events would you like to trigger this webhook?' choose 'Let me select individual events.' Then, check 'Pull Requests' and 'Pushes'. At the end of this option, make sure that the 'Active' option is checked and click on 'Add webhook'.



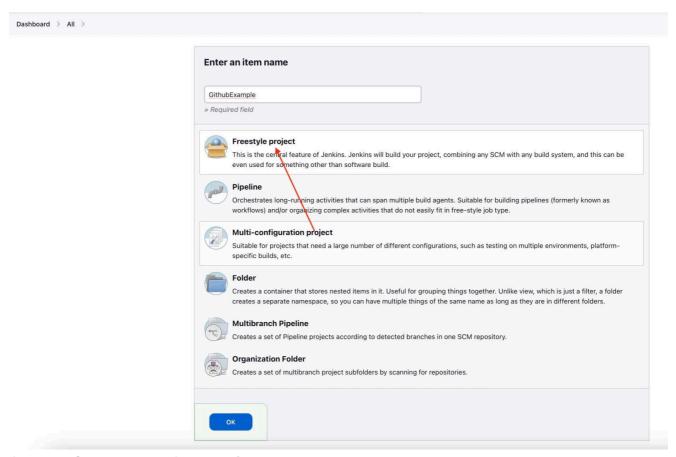
We're done with the configuration on GitHub's side! Now let's move on to Jenkins.

Configuring Jenkins

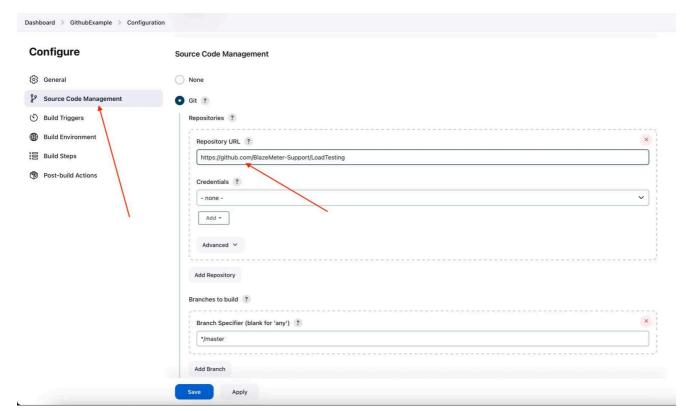
Step 5: In Jenkins, click on 'New Item' to create a new project.



Step 6: Give your project a name, then choose 'Freestyle project' and finally, click on 'OK'.

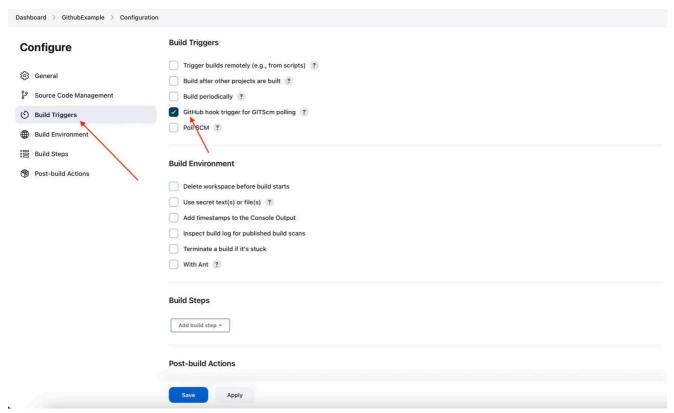


Step 7: Click on the 'Source Code Management' tab.

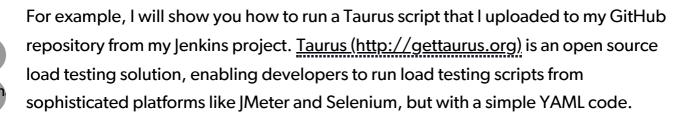


Step 8: Click on Git and paste your GitHub repository URL in the 'Repository URL' field.

Step 9: Click on the 'Build Triggers' tab and then on the 'GitHub hook trigger for GITScm polling'. Or, choose the trigger of your choice.

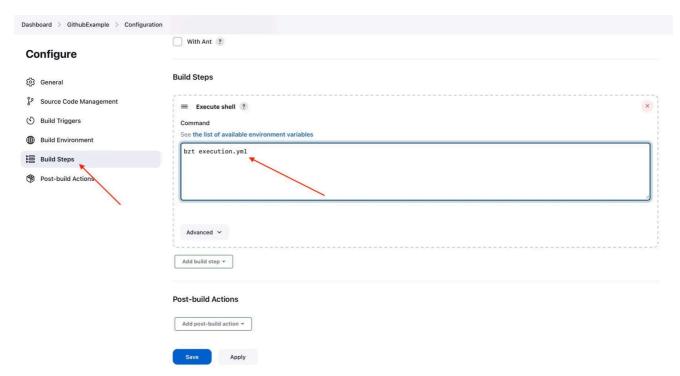


That's it! Your GitHub repository is integrated with your Jenkins project. With this Jenkins GitHub integration, you can now use any file found in the GitHub repository and trigger the Jenkins job to run with every code commit.



Triggering the GitHub Jenkins Integration With Every Code Commit

Step 10: Click on the **'Build'** tab, then click on 'Add build step' and choose 'Execute shell'.



Step 11: To run a Taurus test, simply use the **'bzt'** command, followed by the name of your YML file and click on **'Save'**.

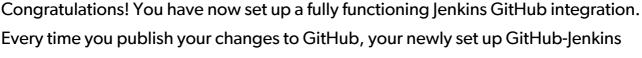
Step 12: Go back to your GitHub repository, edit the Taurus script and commit the changes. We will now see how Jenkins ran the script after the commit.

Step 13: Go back to your Jenkins project and you'll see that a new job was triggered automatically from the commit we made at the previous step. Click on the little arrow next to the job and choose **'Console Output'.**

Step 14: You can see that Jenkins was able to pull the Taurus script and run it!

Bottom Line







integration will trigger your latest lenkins job.



Once the GitHub plugin is fully installed and integrated into your lenkins project, you have completed a very crucial step towards the full CI process. Now, you can proceed to the testing phase. To complete the full CI process, integrate your load testing into your CI tool. Using the BlazeMeter integration with Jenkins, incorporating load testing into your CI/CD pipeline has never been simpler.

<u>(https://a.blazemeter.com/app/sign-up?</u> **START TESTING NOW**

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Testing Expert

Guy Salton is a technical expert on the whole performance testing ecosystem - load testing tools, monitoring tools, CI tools, Networking and Infrastructure. His expertise is helping with POCs and special technical projects for strategic customers. Guy talks at conferences and meetups around the world, writes blog posts and gives webinars.

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