

## Continuous Integration Tool - Jenkins

### *Features*

- Jenkins is an easy to use, extensive, and dynamic program that allows for continuous integration and much more
- As a program it is easy to install and use with no complicated setup or configuration process
- Jenkins is supported by more than a hundred plugins, making it a very compatible tool
- Jenkins can work across multiple machines making continuous integration on a larger scale an easier process
- Jenkins is open source and community driven, it has all the advantages of being worked on by great developers at no monetary cost

### *Getting Started*

Jenkins has a great documentation resource on their homepage with extensive tutorials to help new users learn how the program works. The documentation is not only for learning the program but to help kickstart interested developers on learning Jenkins. Apart from text documentation Jenkins provides an interactive tutorial known as “Guided Tour” which is a step by step tutorial on helping a new developer learn “the basics of using Jenkins and its main feature, Jenkins Pipeline”.

### *Helpful Links*

<https://www.jenkins.io/doc/tutorials/>  
<https://www.jenkins.io/doc/pipeline/tour/getting-started/>  
<https://www.jenkins.io/doc/developer/>  
<https://www.jenkins.io/participate/>

### *Tool Updates & History*

Jenkins is an open source project getting continuous updates daily, on the official Jenkins github repository we can see a constant stream of updates happening anywhere from 1 to 3 times an hour. Jenkins is at least 10 years old, originally launching in 2011, and has been going strong ever since.

## Real Time Error Monitoring Tool - RAYGUN

### *Features*

- Able to track errors across a full tech stack
- RAYGUN can track errors across front-end, back-end, desktop, and mobile

- RAYGUN will sort errors based on how many users were affected by that error, meaning the more damaging bugs, glitches, and crashes will be the most noticeable to the team
- Ability to filter through errors by “date, time, version, tag, host, OS, browser, custom tags and more”
- Can get a clearer picture on cause of error, less reliance needed on log files and customer support tickets

### *Getting Started*

Even though RAYGUN is product that must be purchased for use, documentation is readily available on the homepage to begin a dive into the program and see if its a right fit for the company, The documentation includes an installation tutorial catered to over three dozen different languages, nine guides on different uses of the product such as APM, crash reporting, deployment tracking, path segment rules, real user monitoring, and more. Within the crash reporting guide are sub guides covering breadcrumbs error tracing, error groups and statuses, exporting data, integrations, reports, etc.

### *Helpful Links*

<https://raygun.com/documentation/>

<https://raygun.com/documentation/language-guides/overview/>

<https://raygun.com/documentation/product-guides/>

<https://raygun.com/documentation/product-guides/crash-reporting/>

### *Tool Updates & History*

In terms of credibility RAYGUN has the customers to support them, RAYGUN's current customers include the likes of CocaCola, Domino's Pizza, HBO, Microsoft, and more. Raygun also has a github repository with semi-frequent uploads happening about 1-2 times a week.