

TRAVIS CI vs. CIRCLE CI vs. JENKINS

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CI: Continuous Integration

- Software development practice
- Frequent integration of code into shared repository
- Main goal is to identify problems that may occur early in the development process
- Popular CI platforms nowadays are :
Circle CI, Travis CI , Jenkins

Circle CI:

Features-

1. Cloud based
2. Free plan even on business account
3. Access to projects, build and artifacts
4. Caches requirements installation
5. Checks 3rd party dependencies instead of constant installations

Pros-

1. Fast Start
2. Free plan for enterprise solutions
3. Easily readable YAML configuration
4. No dedicated server needed for Circle CI

Jenkins

Features-

1. Java based self contained program
2. integrates with practically every tool in the continuous integration and continuous delivery toolchain
3. Plugins available easily
4. Jenkins Pipeline: suite of plugins which supports implementing and integrating continuous delivery pipelines into Jenkins
5. Allows to launch builds with various conditions

Pros:

1. Free
2. Customizable
3. Pugins

Travis CI

Features-

1. Have YAML file as a config
2. Cloud based
3. Option to run tests on Linux and Mac OS X at same time
4. Support of build matrix - Build matrix is a tool that gives an opportunity to run tests with different versions of language and packages

Pros-

1. Fast start
2. Build matrix
3. Yaml Config
4. Free plan for open sourced projects

Which one to choose??

1. Depends on needs
2. CircleCI is recommended for small projects, where the main goal is to start the integration as fast as possible.
3. Travis CI is recommended for cases when you are working on the open-source projects, that should be tested in different environments.
4. Jenkins is recommended for the big projects, where you need a lot of customizations that can be done by usage of various plugins

Circle CI-

Bottom line: If you're looking for a GitHub friendly tool with a wide community behind it, that can also run within a private cloud or your inside own data center, Circle CI is worth checking out.

Circle CI can auto-cancel redundant builds on GitHub. If a newer build is triggered on the same branch, the tool identifies it and cancels the older builds that are running or queued, even if the build is not finished.

Jenkins-

Bottom line: If you're looking for a cheap (free!) CI solution, are willing to put in the work to customize your environment and need support from a community of users, Jenkins is the choice for you.

open source + plugins = community. Any configuration, workflow, need or desire you can think of, you'll have an option to create it with the help of Jenkins and its plugins.

Travis CI-

Bottom line: If your code is open source and you're more concerned about the continuous integration of your builds, Travis CI is worth a try.

To make sure you always have a backup of your recent build, Travis CI clones your GitHub repository into a new virtual environment whenever you run a new build.

The End.

