

Module 7 Project

DevOps Tools for Continuous Integration and Error Monitoring

Alternative CI/CD tool to CircleCI:

Jenkins

Jenkins is an open-source server that allows for automating testing and deployment of code. It's versatile in that it can be installed through native system packages, Docker, or run standalone on local machines. It is "self contained" and ready to run out-of-the-box in all major operating systems, including Windows, MacOS and Linux.

Being an open source system, Jenkins is not only free but is bolstered through over 1,800 community-contributed plugins. These include productivity plugins like Dashboard view to Performance and testing/analytics plugins such as Test Result Analyzer.

Installing Jenkins is fairly straightforward. It's typically run as a standalone application. The documentation includes installation guides for all major operating systems, including other platforms such as Docker and Kubernetes.

It was initially released in 2011 appears to be well supported, with over 650 contributors on GitHub and almost daily updates and upgrades. The last stable release is just a couple of months old, released in August 2021.

Alternative Error Monitoring tool to Rollbar:

Sentry

Sentry is a cross-platform service that helps monitoring and fixing errors in real-time. It supports JavaScript and Node. Similarly to Rollbar, we are given a DSN (Data Source Name) key, which is inserted in the source code to initialize their SDK (Source Development Toolkit). It also has email and Slack integration, so developers can be notified as soon as errors are detected. Sentry displays the amount of times the event occurred and how many users it affected on its dashboard.

The GitHub repo is supported by over 500 contributors and is actively updated. There is also community support in the form of an online forum, as well as a Discord server. They have step-by-step documentation for JavaScript, Node.js, React and other languages and frameworks. The SDK can be installed using *npm*.

