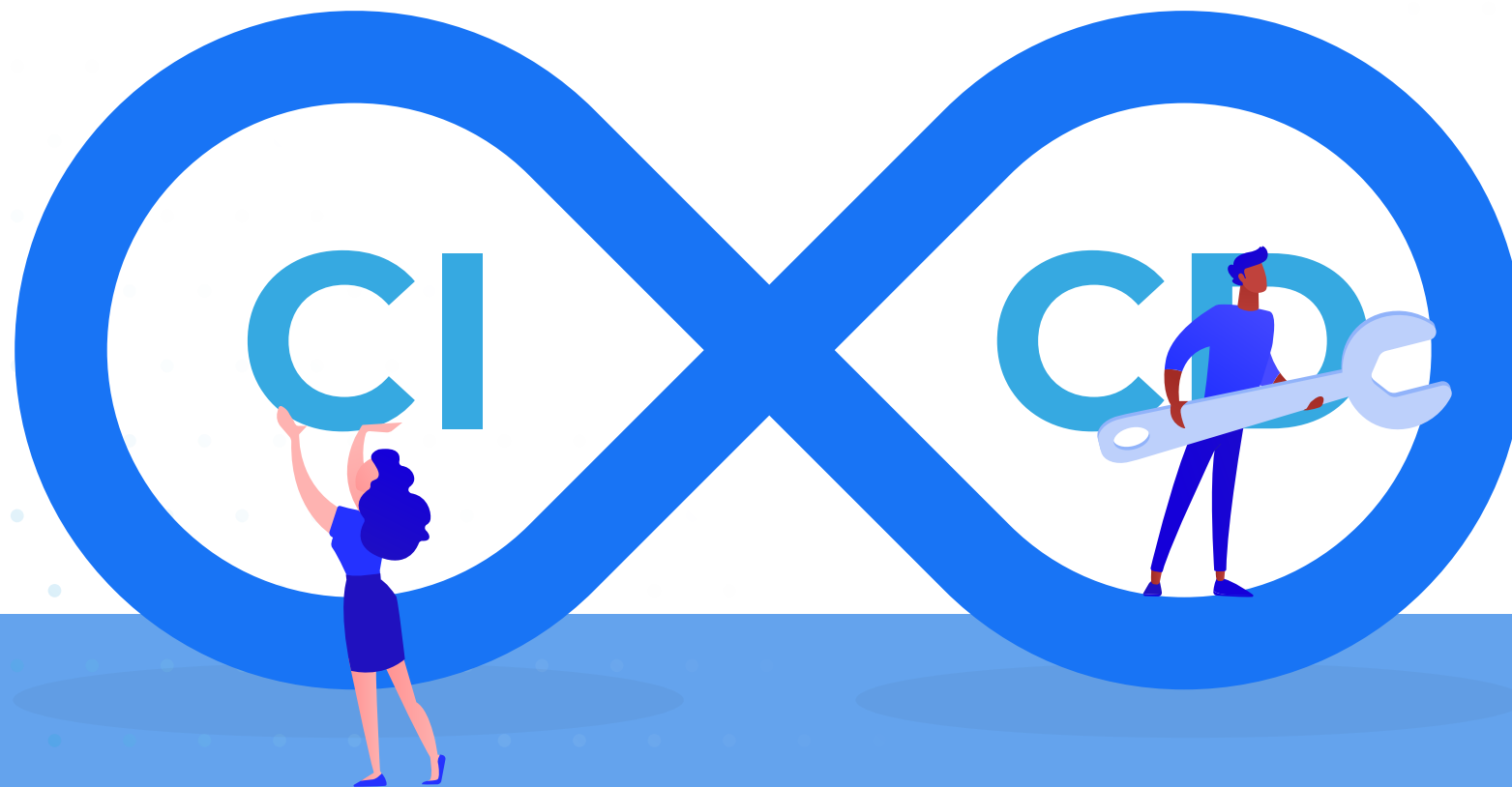ClickIT
DevOps & Software Development

Best DevOps Automation Tools for CI/CD Pipelines

CI/CD is an essential component of the DevOps continuous delivery model to deliver applications by incorporating automation into each stage of the application development lifecycle.

Here are some of the popular **DevOps automation tools** for CI/CD tasks:

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▶ Jenkins

Is a popular continuous integration tool that enables organizations to automate the build, test, and deployment process.

Features

- It is an open-source tool and free.

- It is easy to use and comes with good community support.

- Jenkins offers a rich plugin ecosystem comparison 1000+ plugins

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▶ CircleCI

It is a cloud-based continuous integration tool. It enables faster code deployment and allows complicated pipelines to be easily managed.

Features

- Easy and quick set up.

- You can customize it to suit different platforms such as Kubernetes Azure, AWS EC2 instances.

- Built-in Docker support.

► AWS CodePipeline

AWS CodePipeline is a fully managed continuous delivery service. It helps organizations automate all CI/CD pipeline stages and deliver quality applications while efficiently managing infrastructure updates.

Features

- Easy to set up and manage.

- Easily integrates with all AWS services, 3rd party and custom plugins.

- You can build Docker images.

Gitlab

A powerful Devops platform that brings product development and product security into a single platform. Allows organizations to create and manage open and private repositories easily.

Features

- Powerful and robust CI/CD Pipelines.

- Tight integration with Kubernetes.

- Delivers reliable performance and 99.9% uptime.

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