

What's in it for you?



Before Jenkins



Issues before Jenkins



What is Jenkins?



What is Continuous Integration?



Continuous Integration Tools



Features of Jenkins

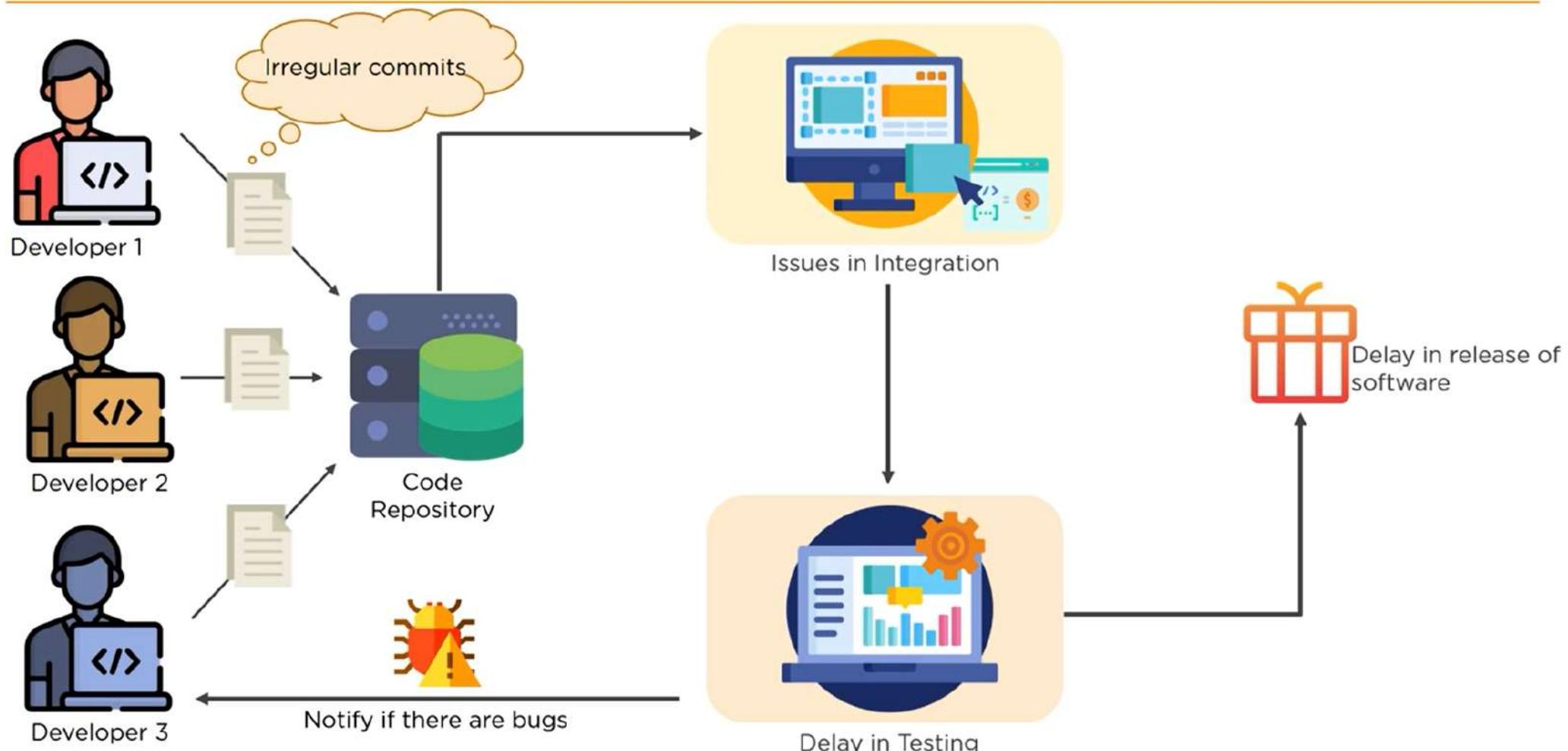


Jenkins Architecture



Jenkins Case Study

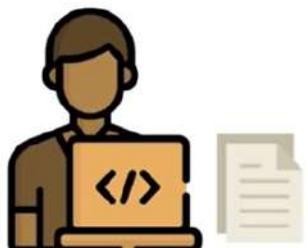
Before Jenkins



Before Jenkins



Developer 1



Developer 2



Developer 3

Developers had to wait till the entire software code was built and tested to check for errors

Before Jenkins



Developer 1



Developer 2



Developer 3

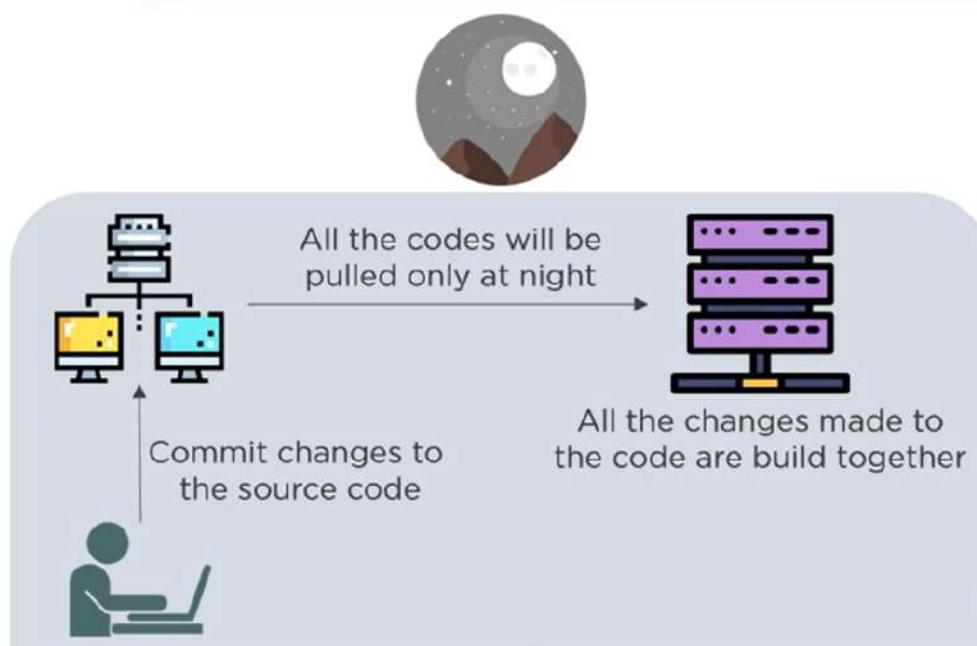
Developers had to check the entire source code to find the errors. In such case, fixing bugs was very difficult

What is Jenkins?

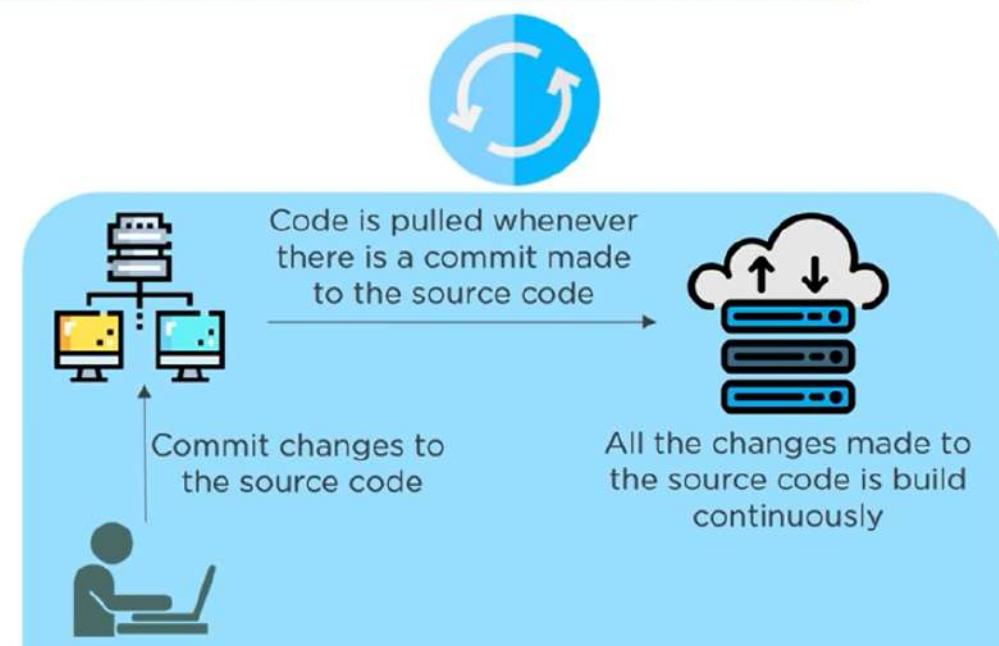


What is Jenkins?

Jenkins is a Continuous Integration tool that allows continuous development, test and deployment of newly created codes

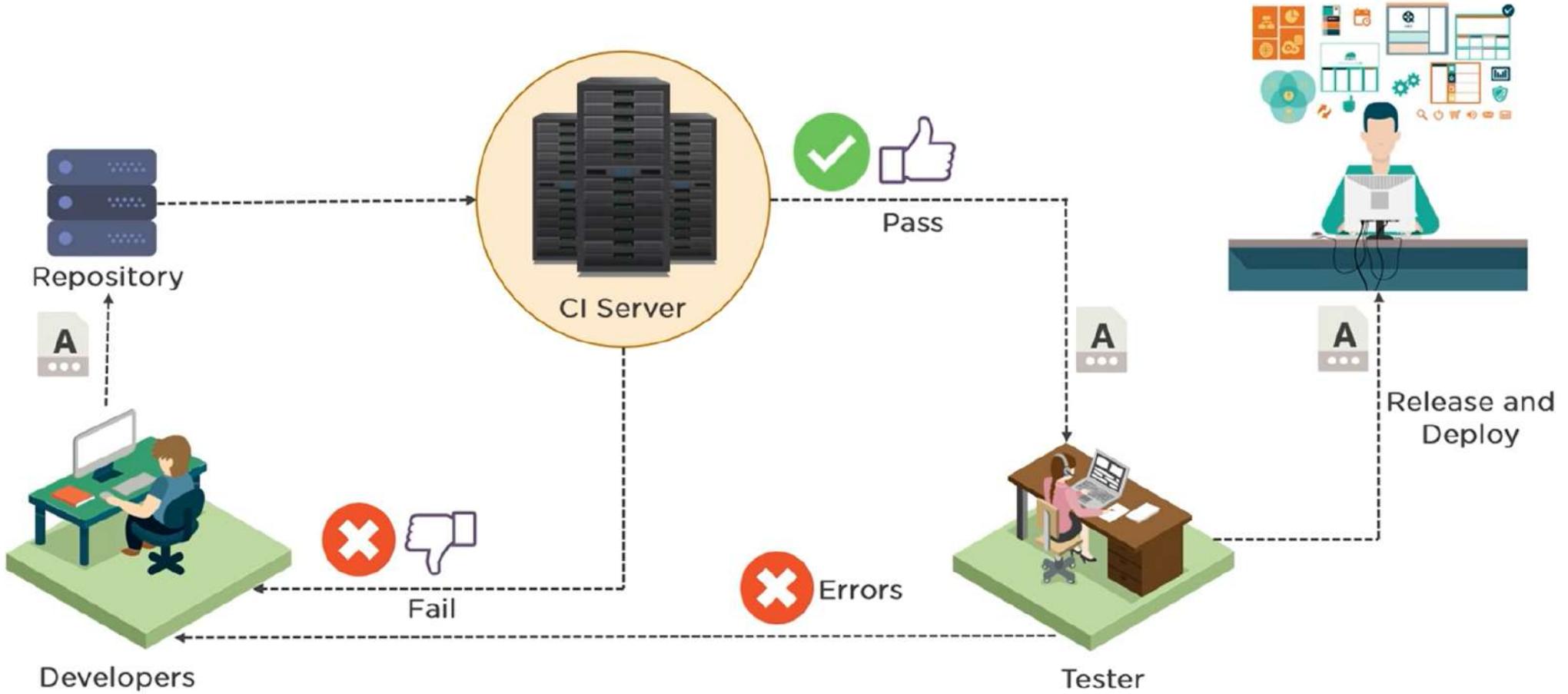


Nightly build and integration

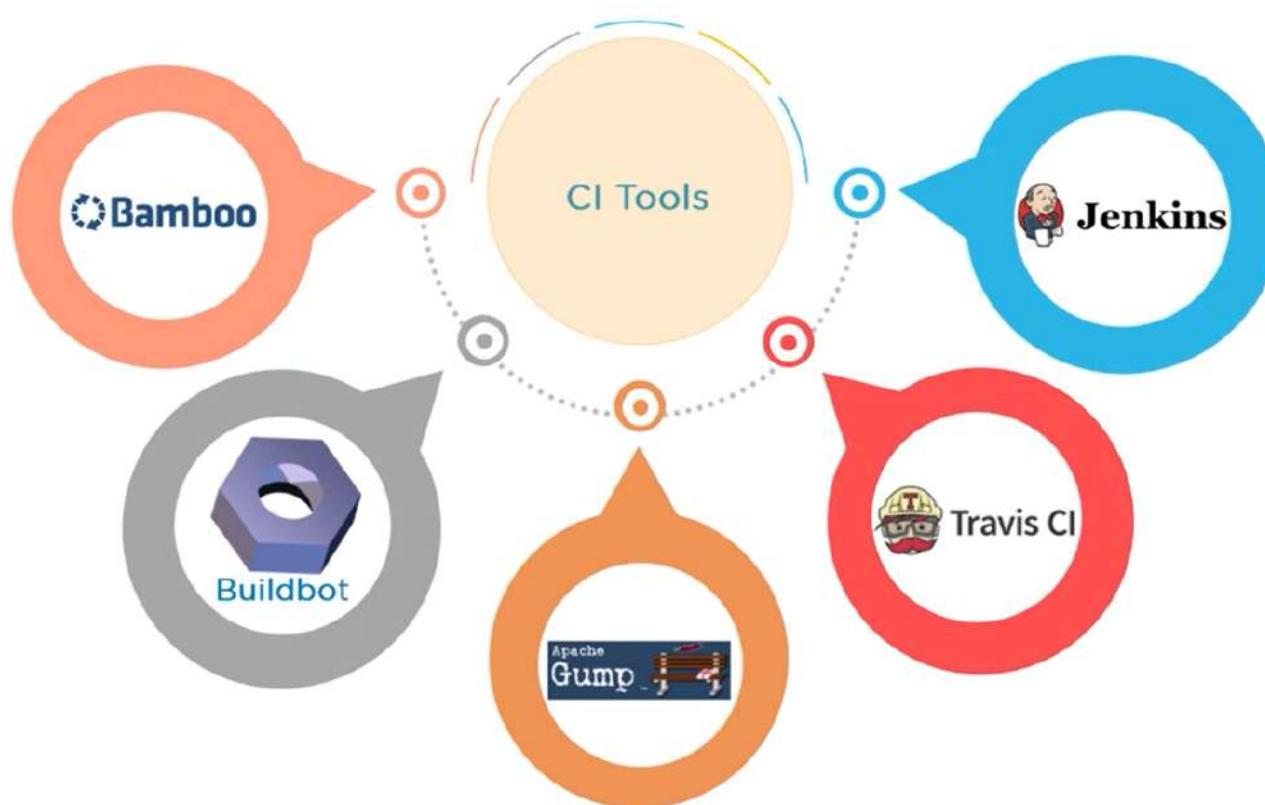


Continuous build and Integration

What is Continuous Integration?

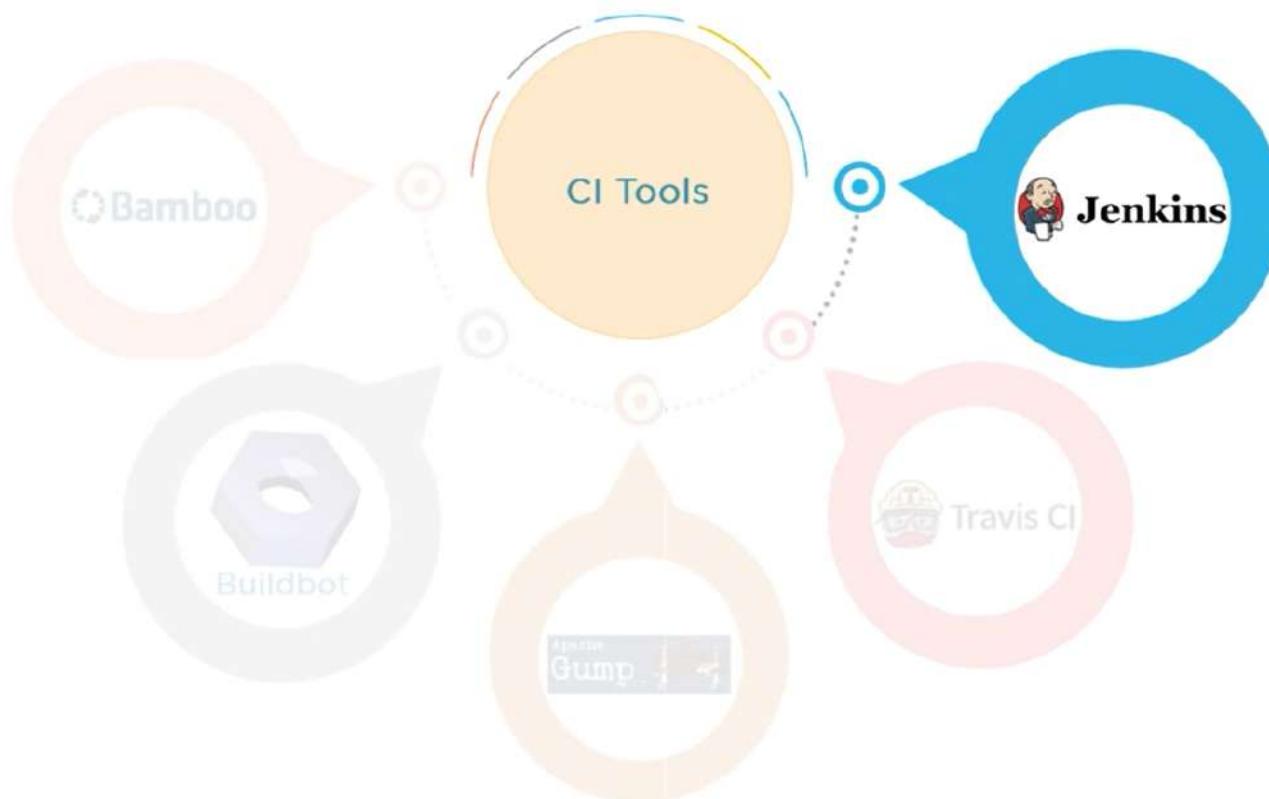


Continuous Integration Tools

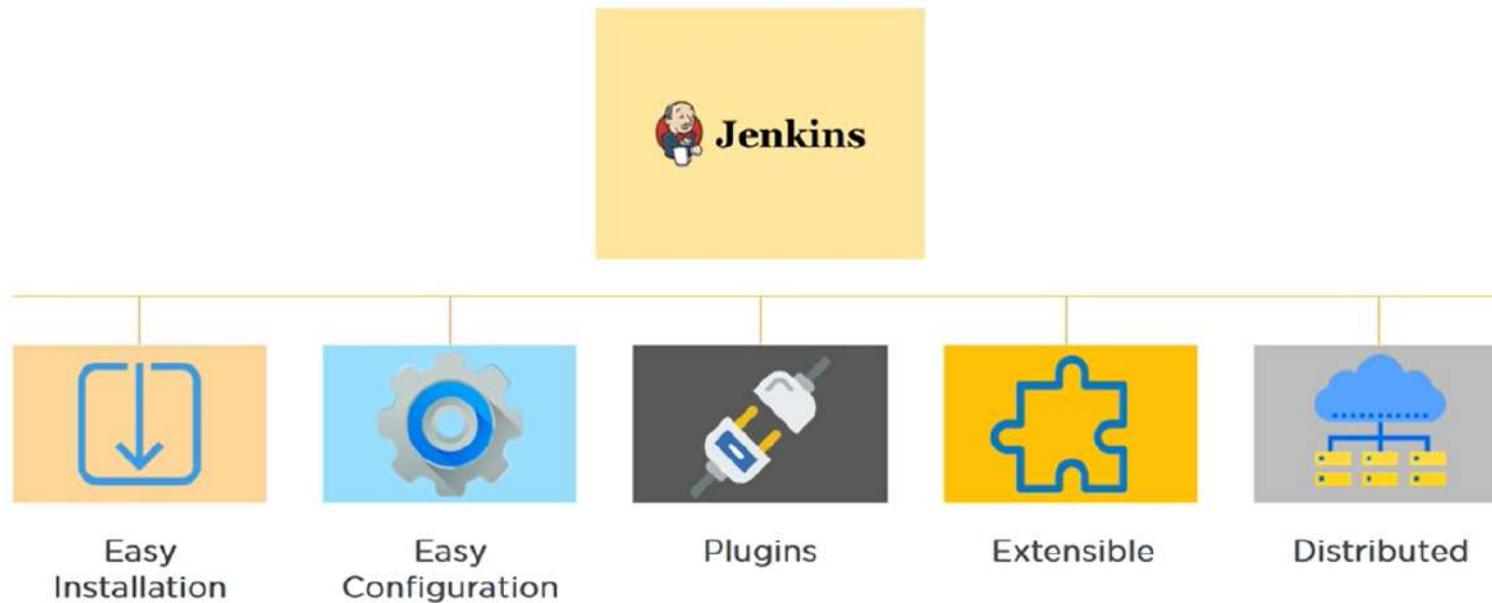


Continuous Integration Tools

Jenkins is an open source automation server written in Java. It is used to automate software development process via continuous integration and facilitates continuous delivery.



Features of Jenkins

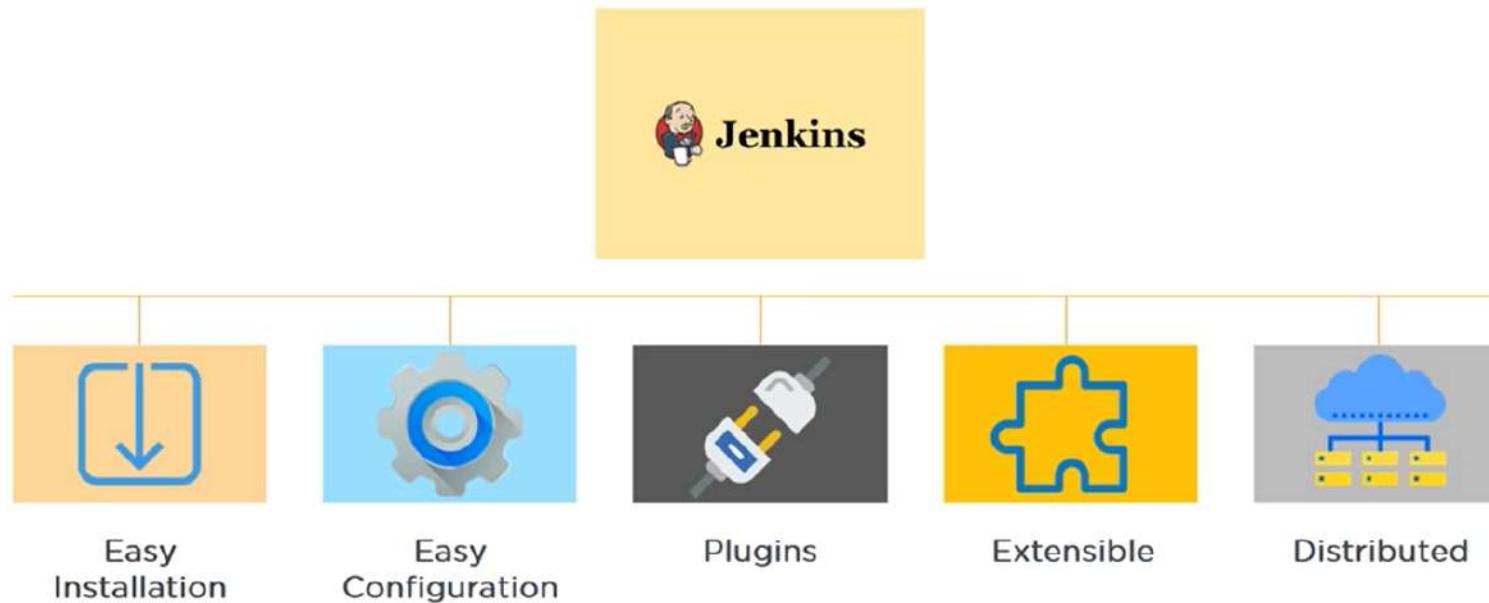


Jenkins is a self contained Java-based program, ready to run with packages for Windows, Mac OS X and Unix-like OS

Features of Jenkins

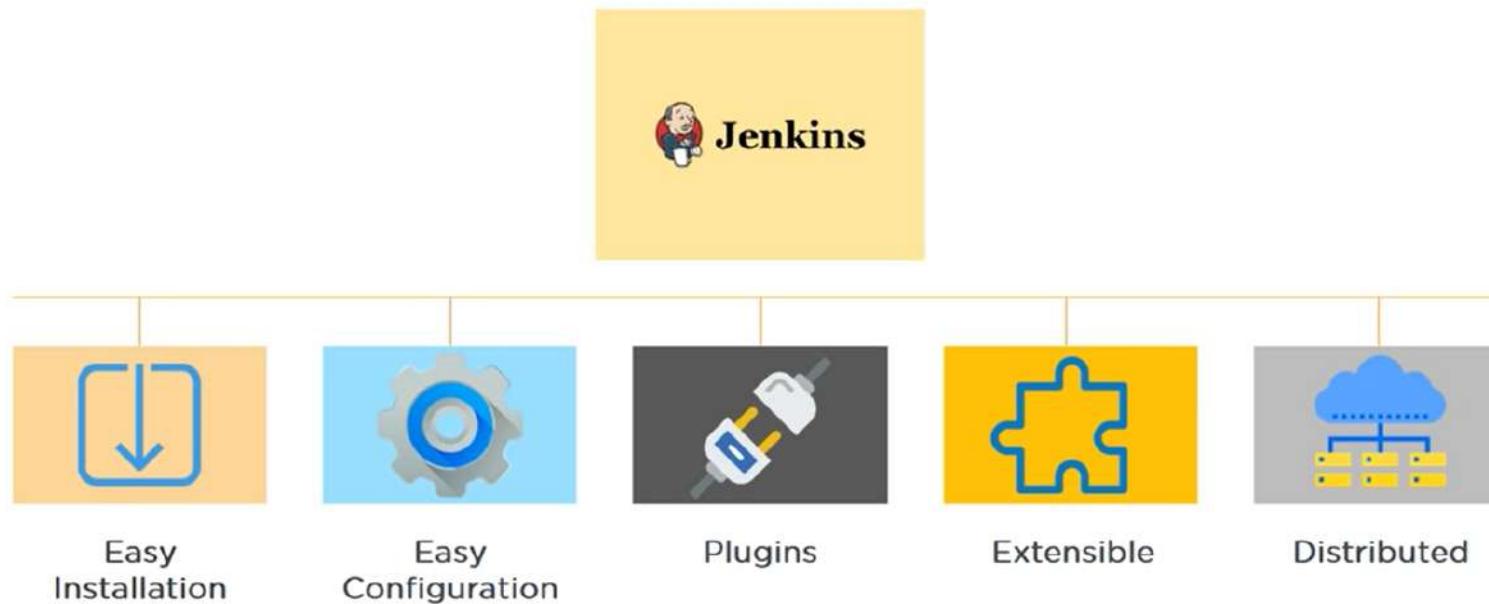


Features of Jenkins



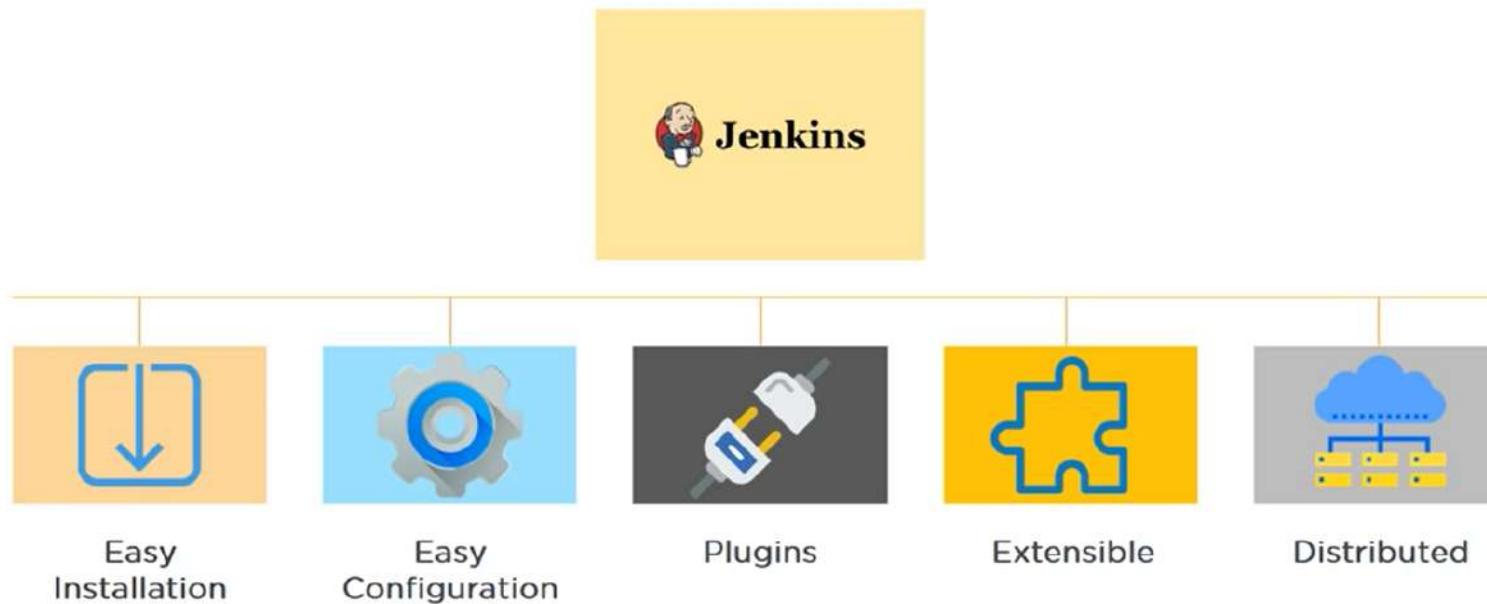
It has hundreds of plugins in the Update Center and integrates with every tool in the CI and CD toolchain

Features of Jenkins



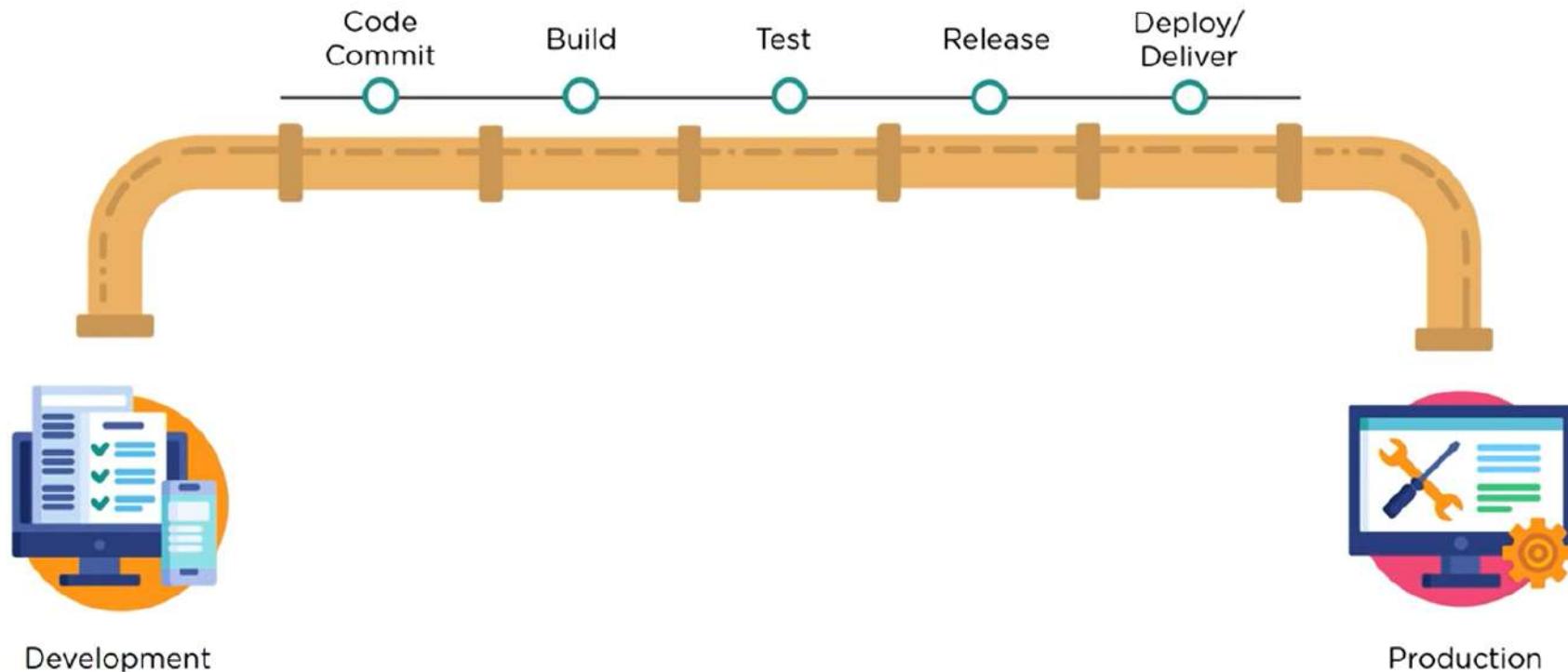
Jenkins can be extended via its plugin architecture and provides nearly infinite possibilities for what it can do

Features of Jenkins

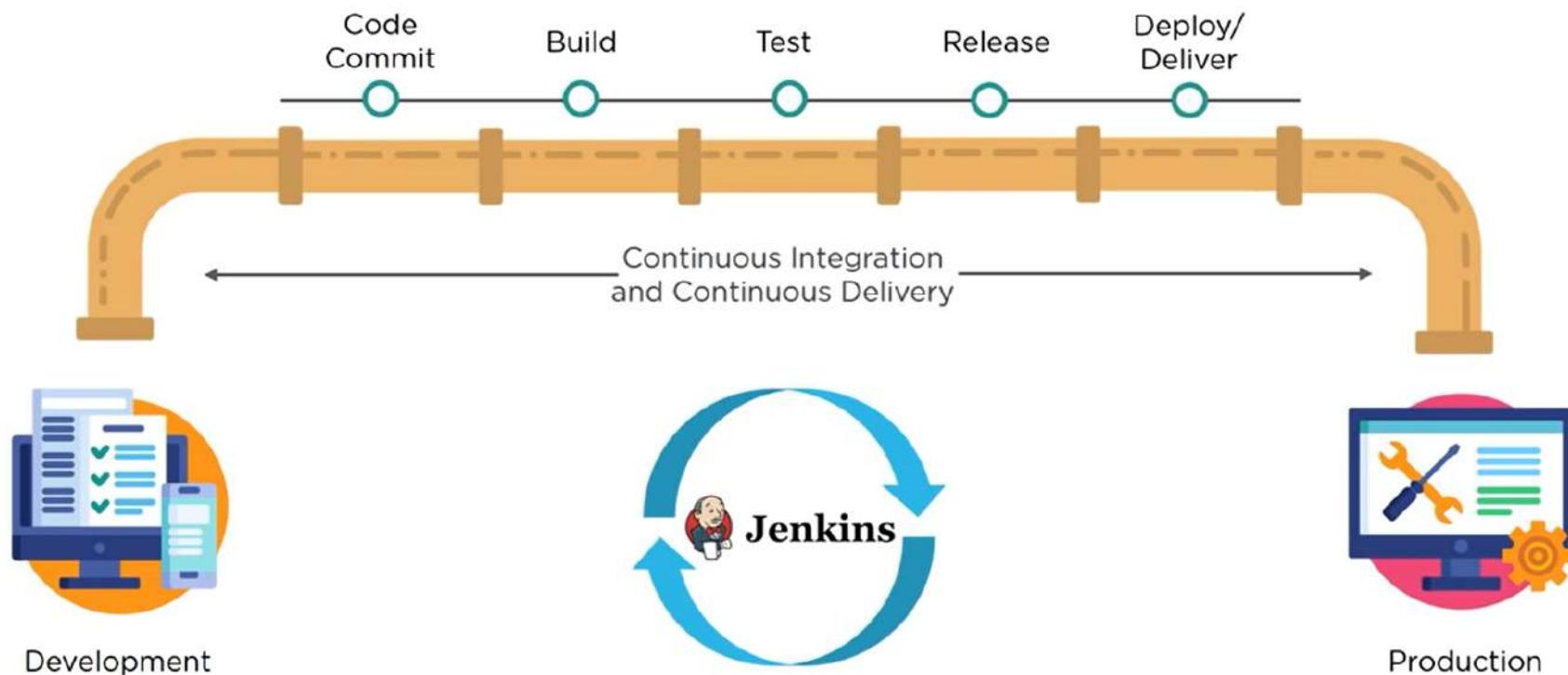


It can easily distribute work across multiple machines, helping in faster builds, tests and deployments across multiple platforms

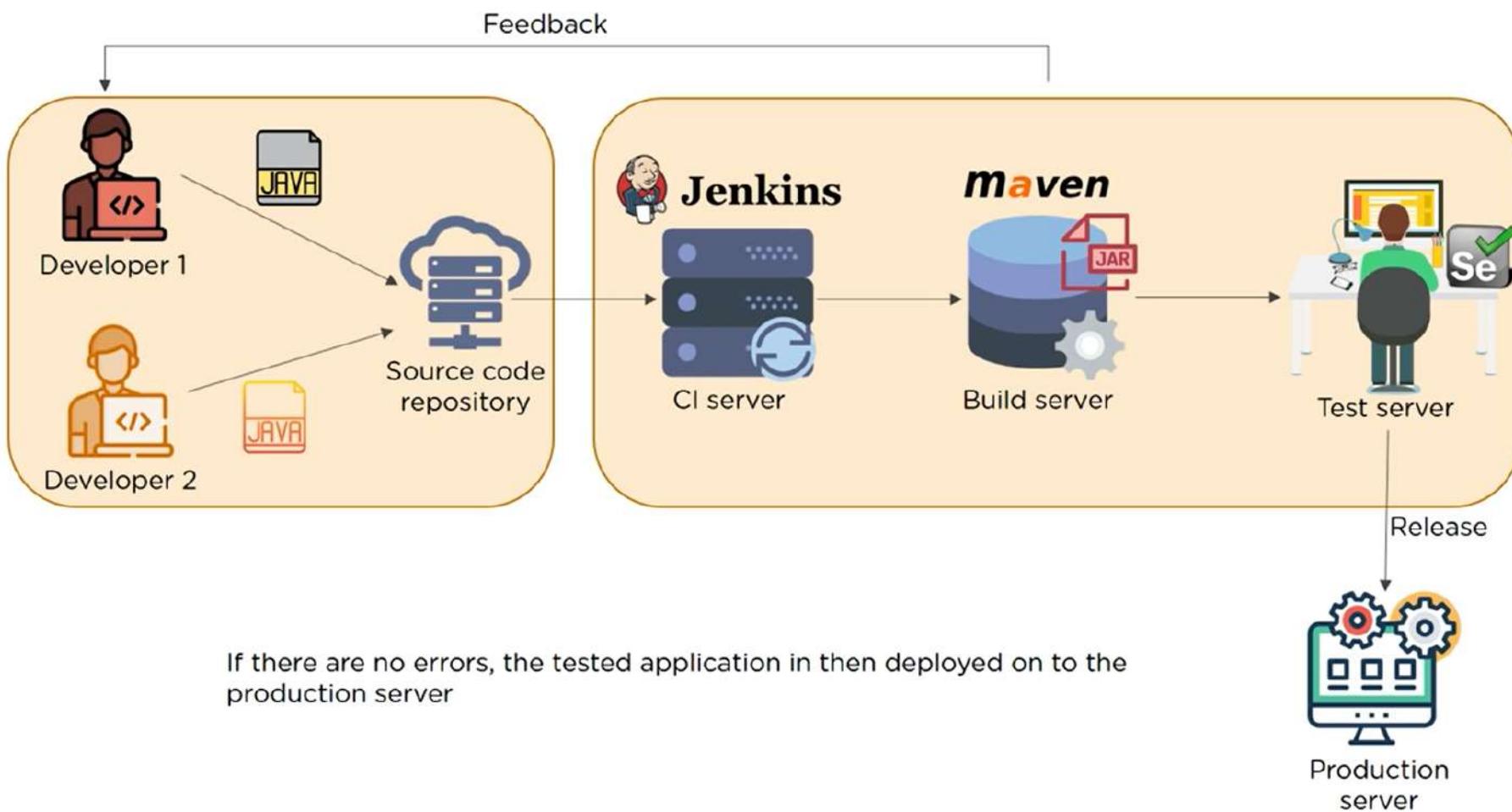
Jenkins Pipeline



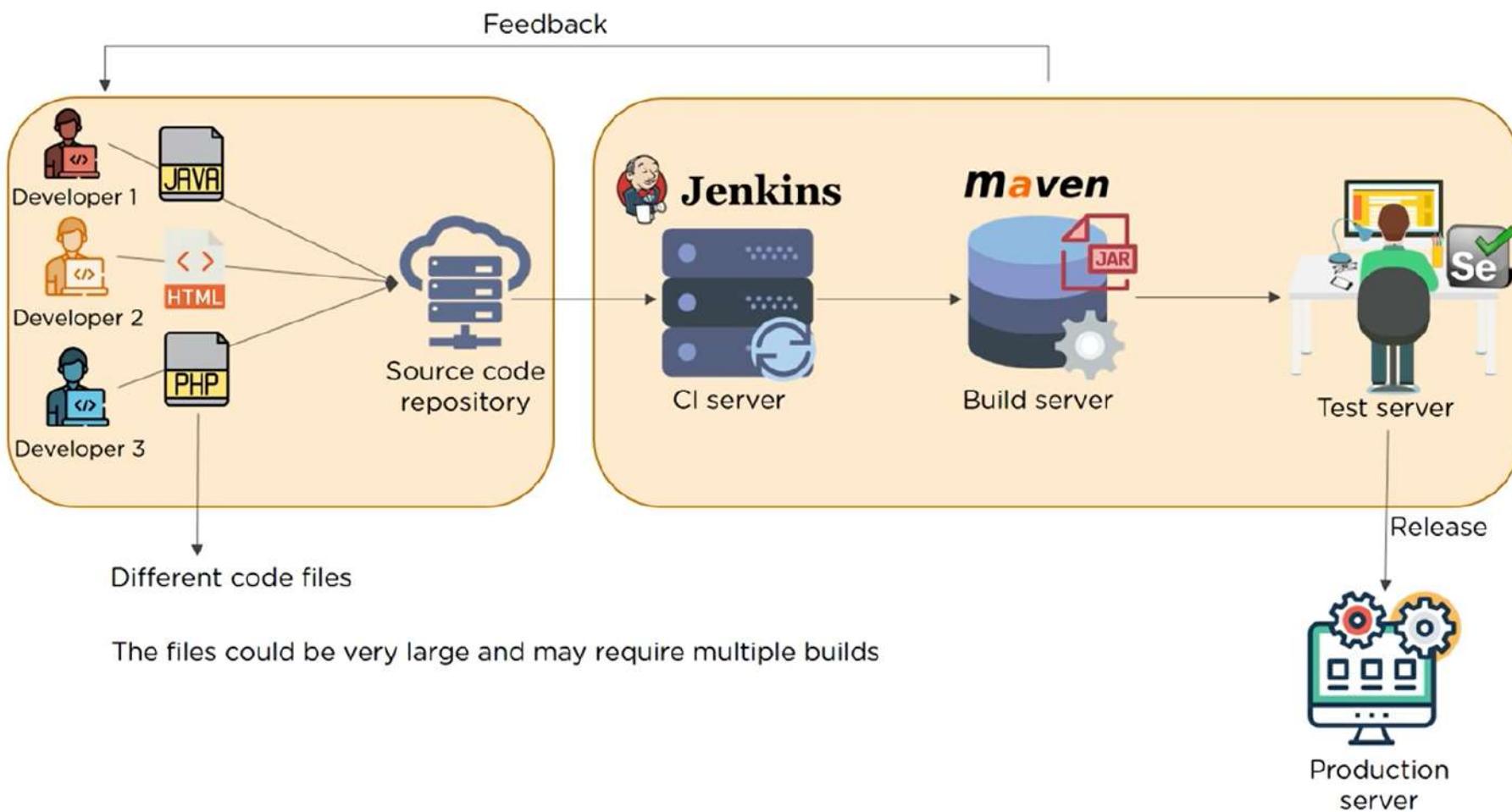
Jenkins Pipeline



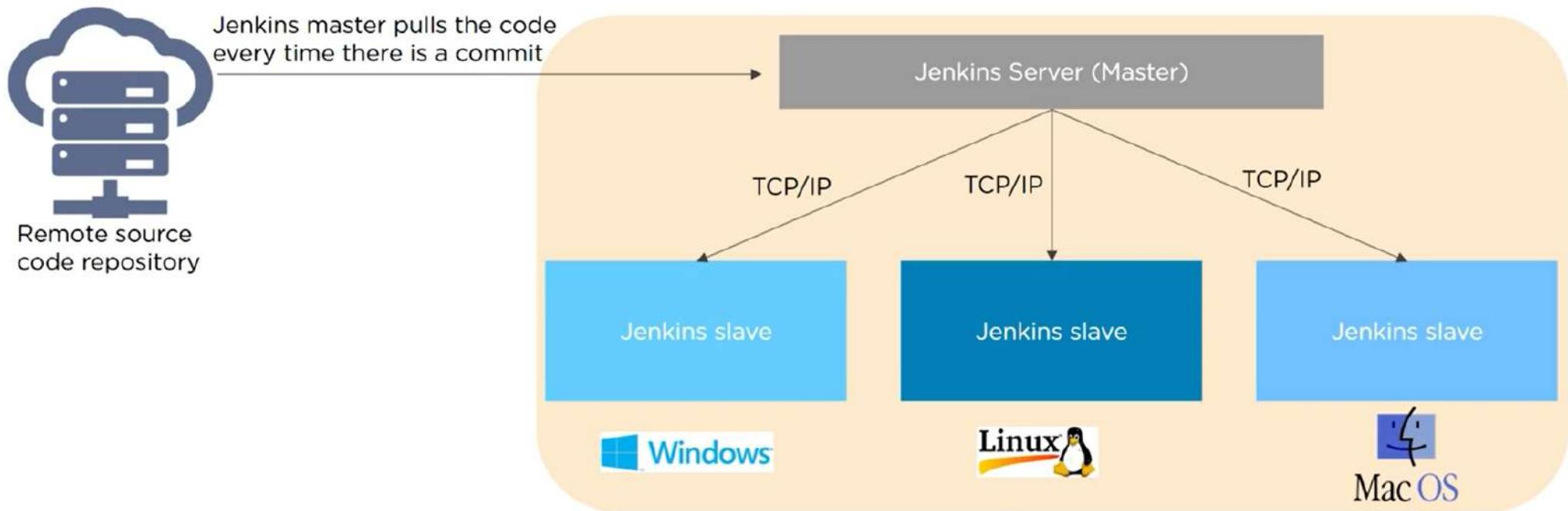
Jenkins Architecture



Jenkins Architecture



Jenkins Master-Slave Architecture



- Jenkins master distributes its workload to all the slaves
- On request from Jenkins master, the slaves carry out builds and tests and produce test reports

What is Continuous Integration?

The process of having shorter release cycles(sometimes several times a day) i.e creating small features and integrating them to the source code, and employing automated build and test processes for quicker feedback is called Continuous Integration

