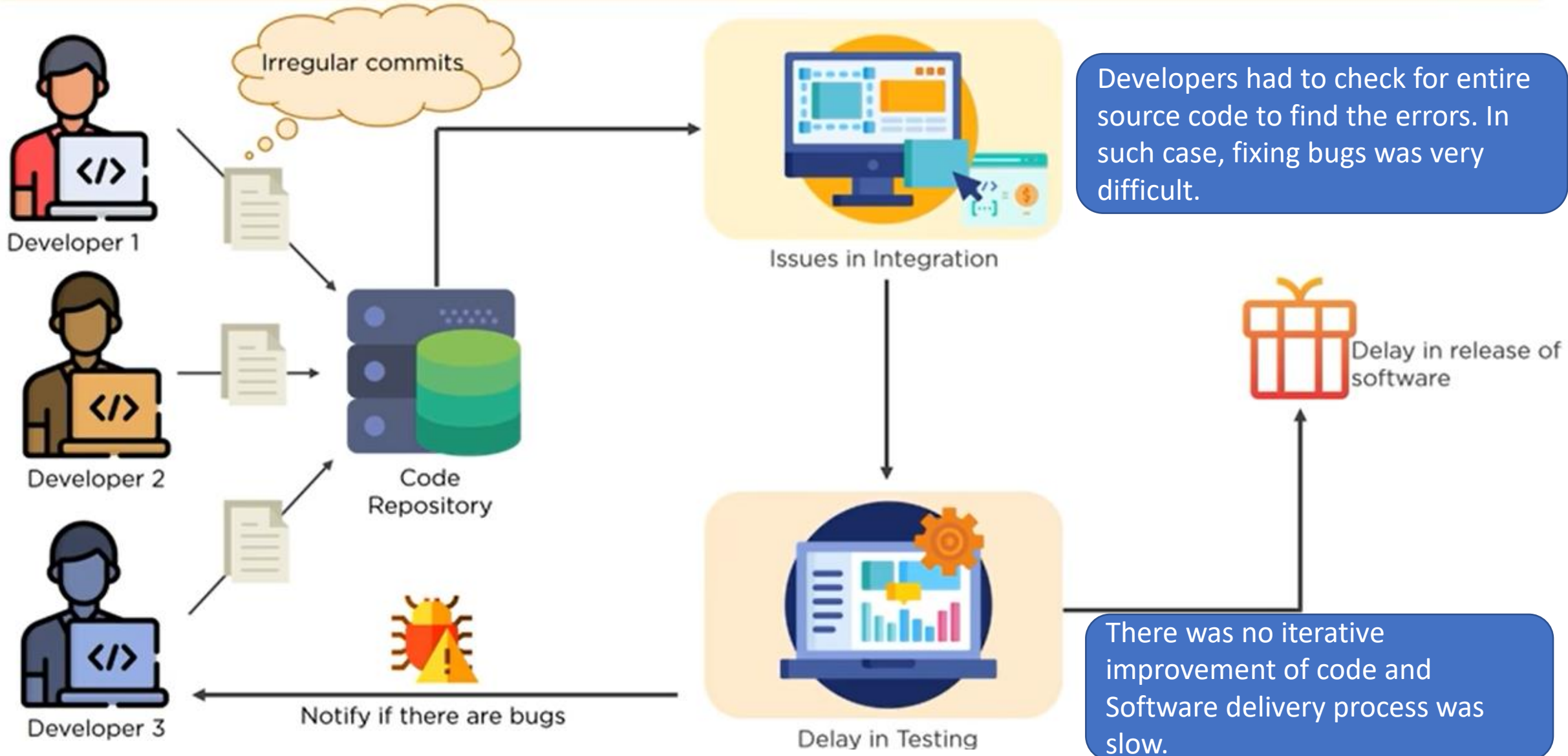


Jenkins

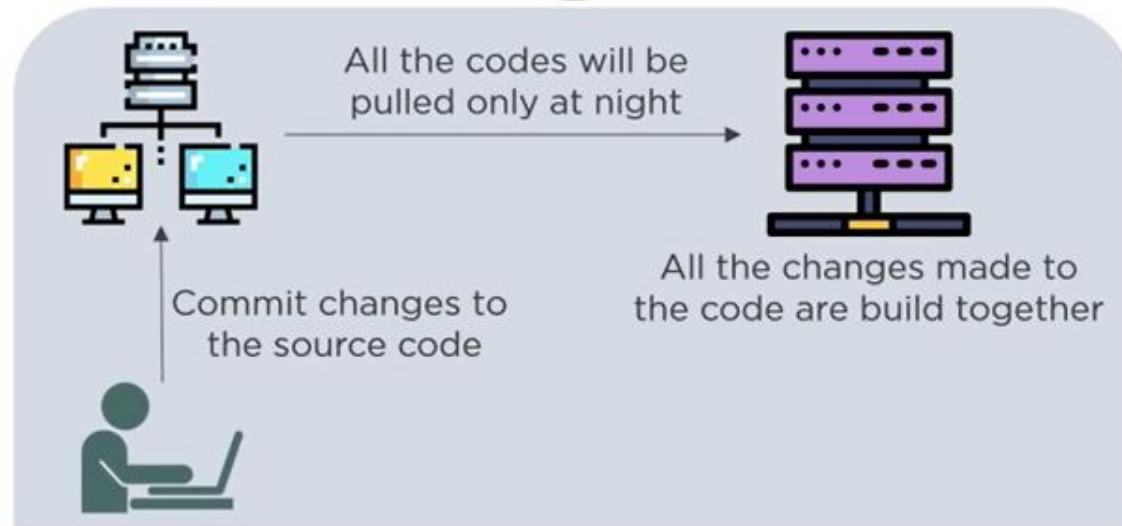
Before Jenkins

Developer had to wait till the entire S/W code was built & tested to check for errors.

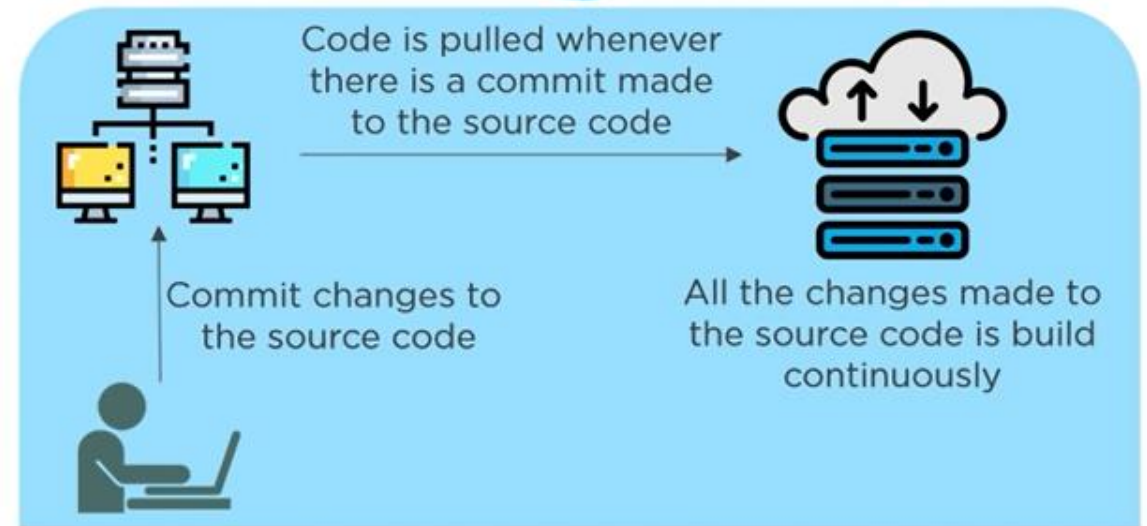


What is Jenkins?

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

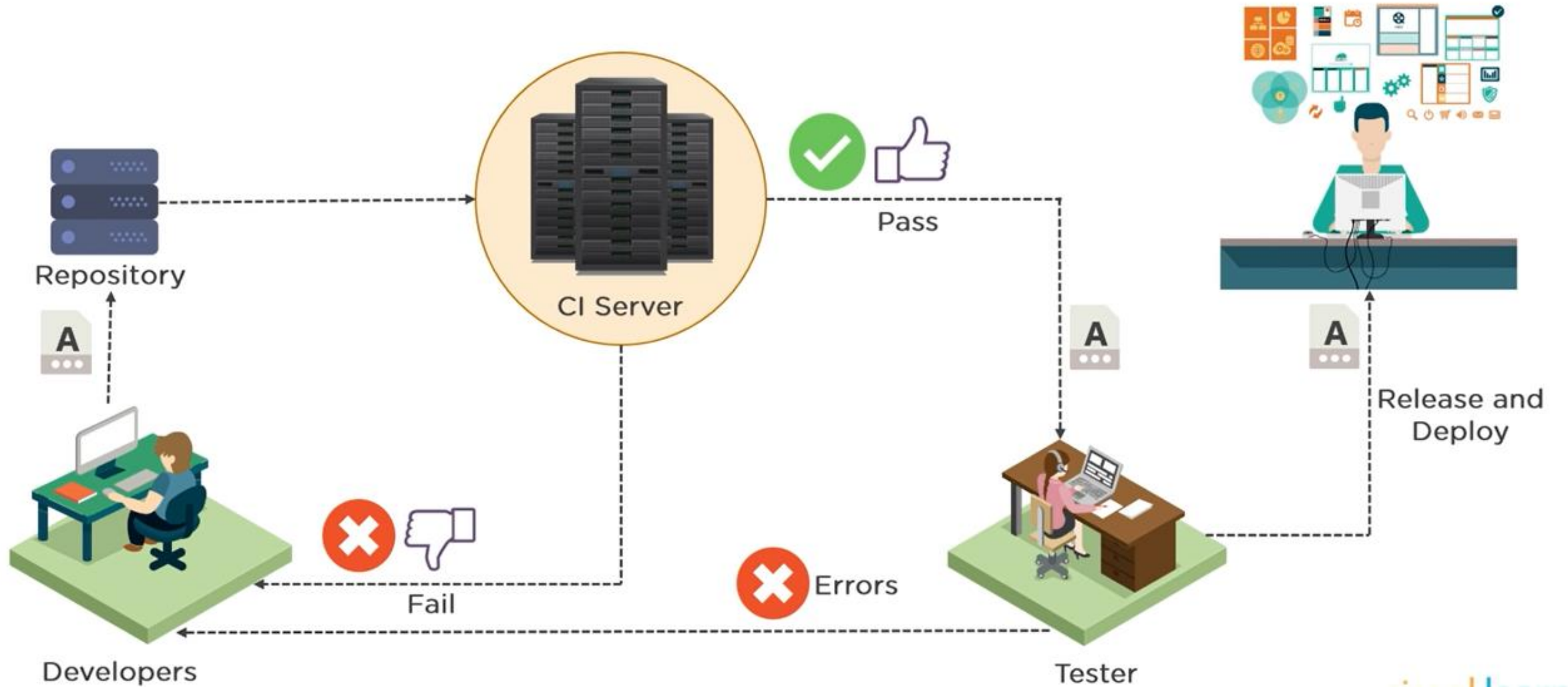


Nightly build and integration



Continuous build and Integration

What is Continuous Integration?



Continuous Integration Tools



Features of Jenkins

Jenkins is a self-contained java- based program, ready to run with packages with windows, Mac OS and UNIX like OS



It can easily distribute work across multiple machines, helping in faster builds, tests and deployment across multiple platform

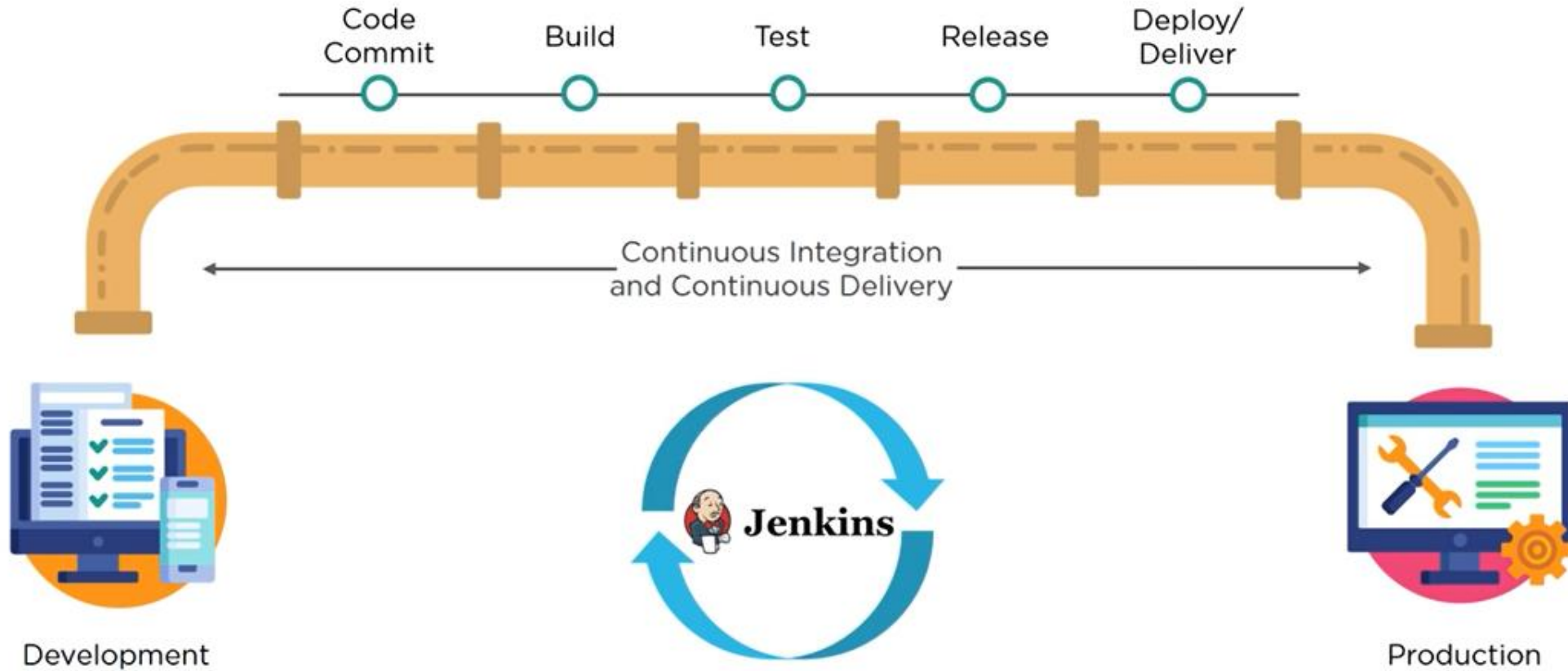


It can be easily set up and configured via its web interface which includes error checks and built in help

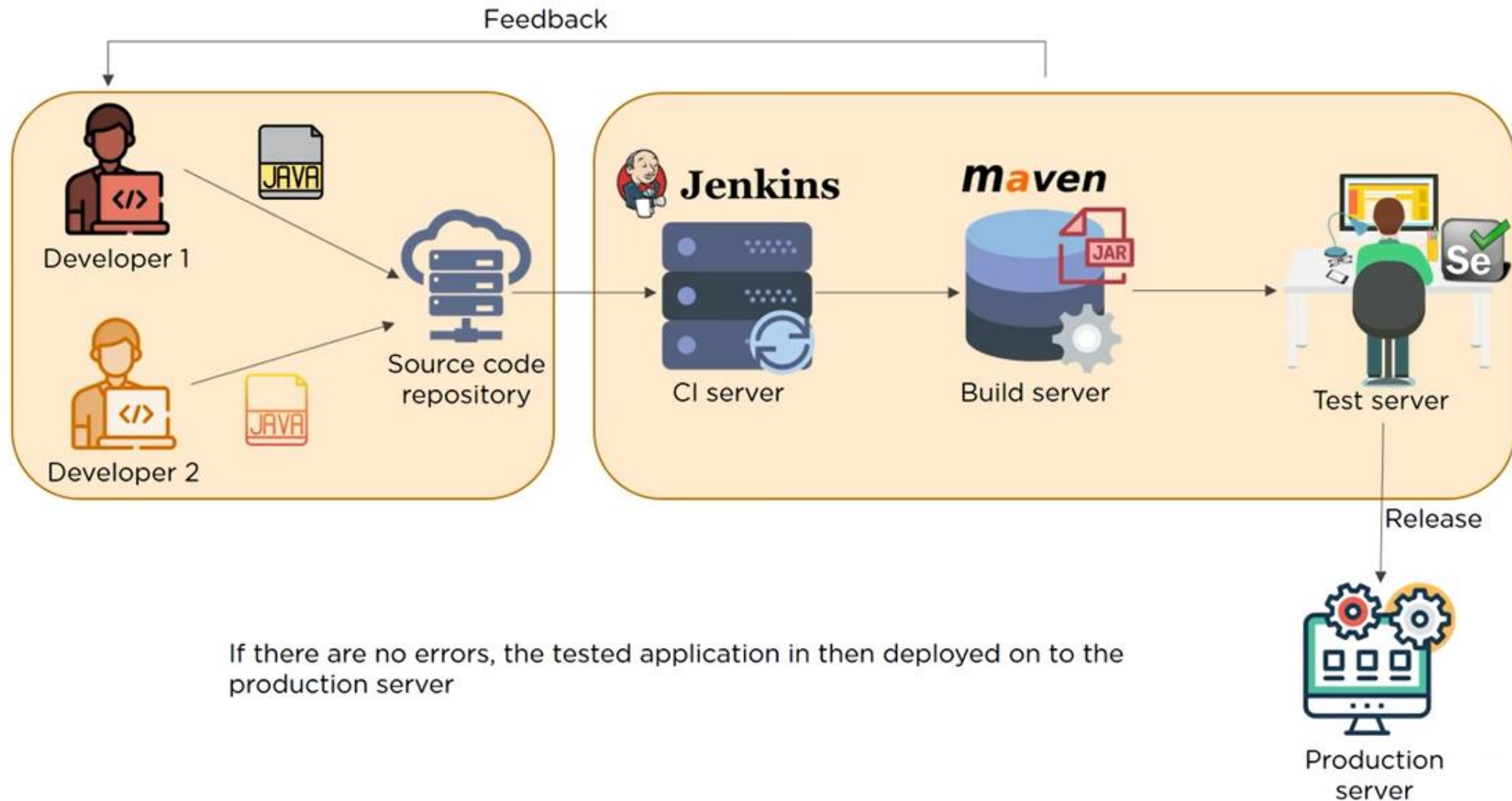
It has hundreds of plugins in the update center and integrates with every tool in CI/CD toolchain

Jenkins can be Extended via its plugin architecture

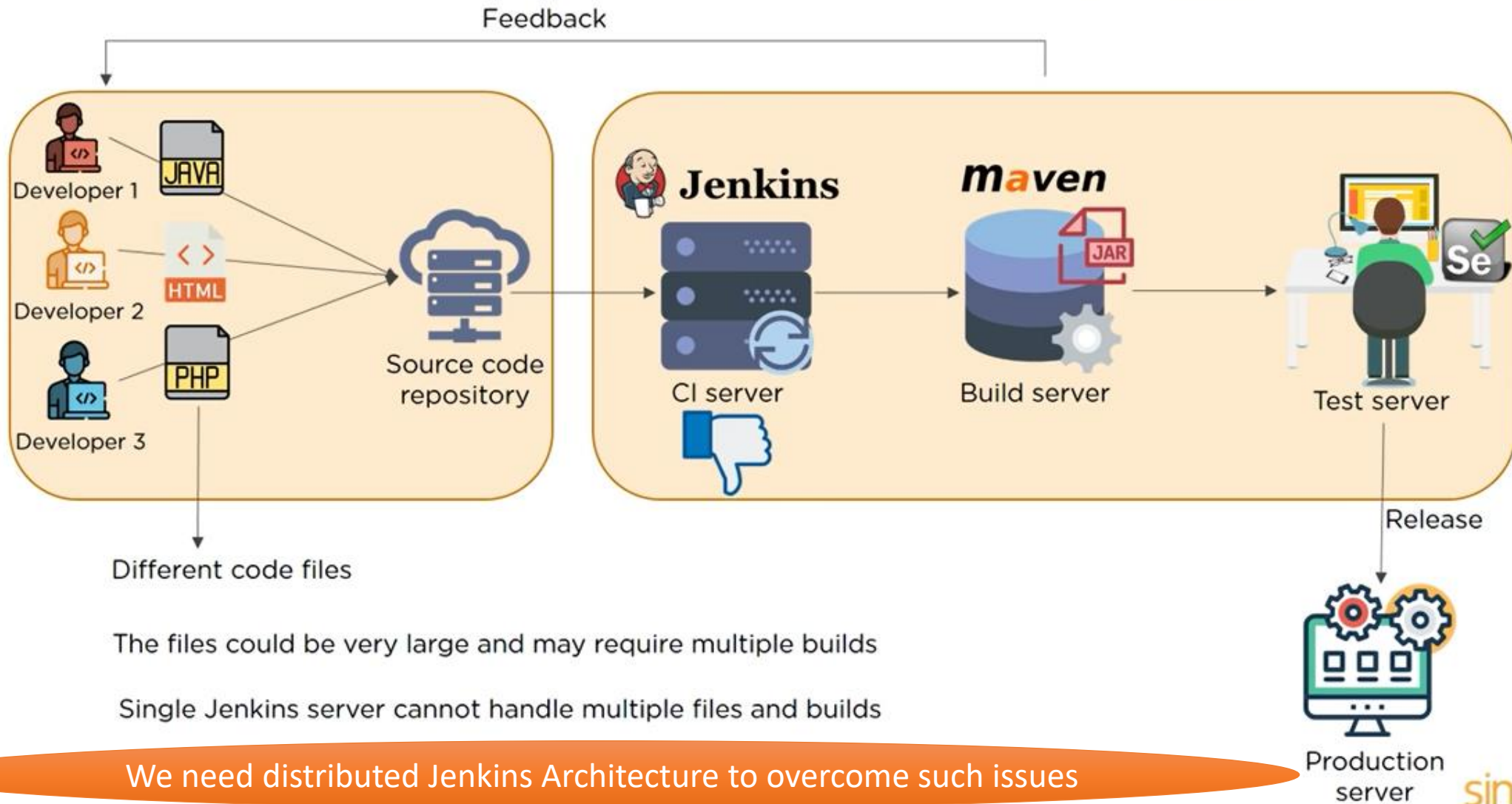
Jenkins Pipeline



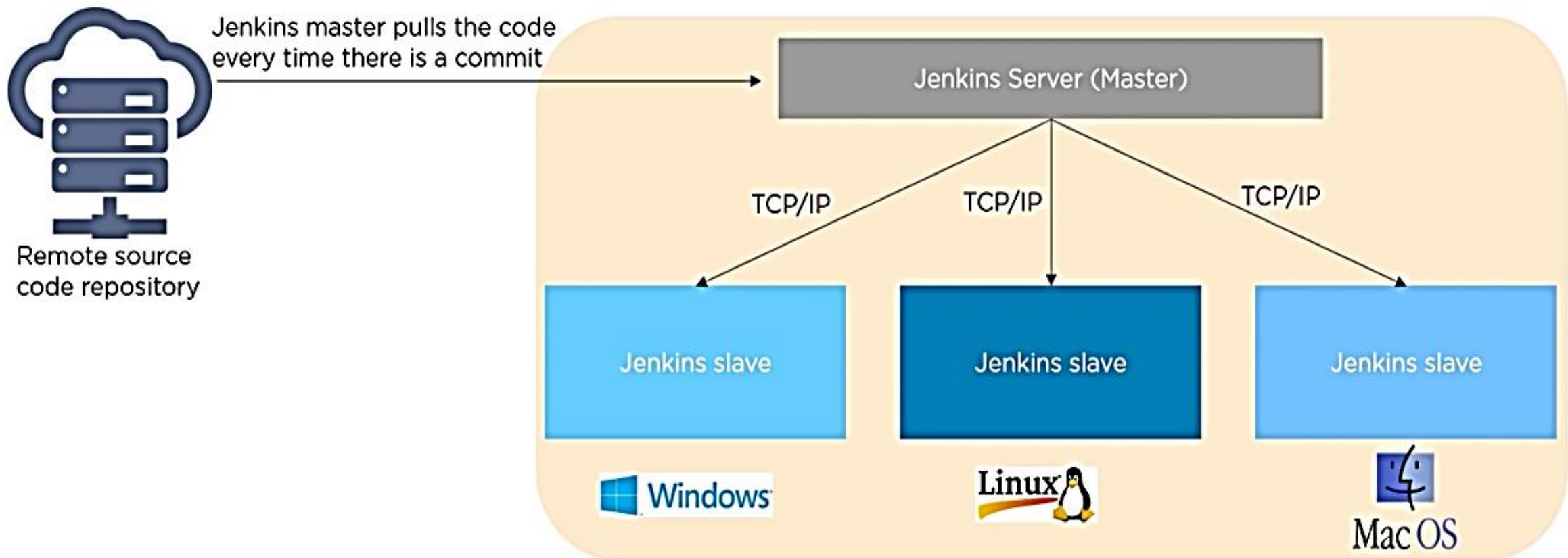
Jenkins Architecture



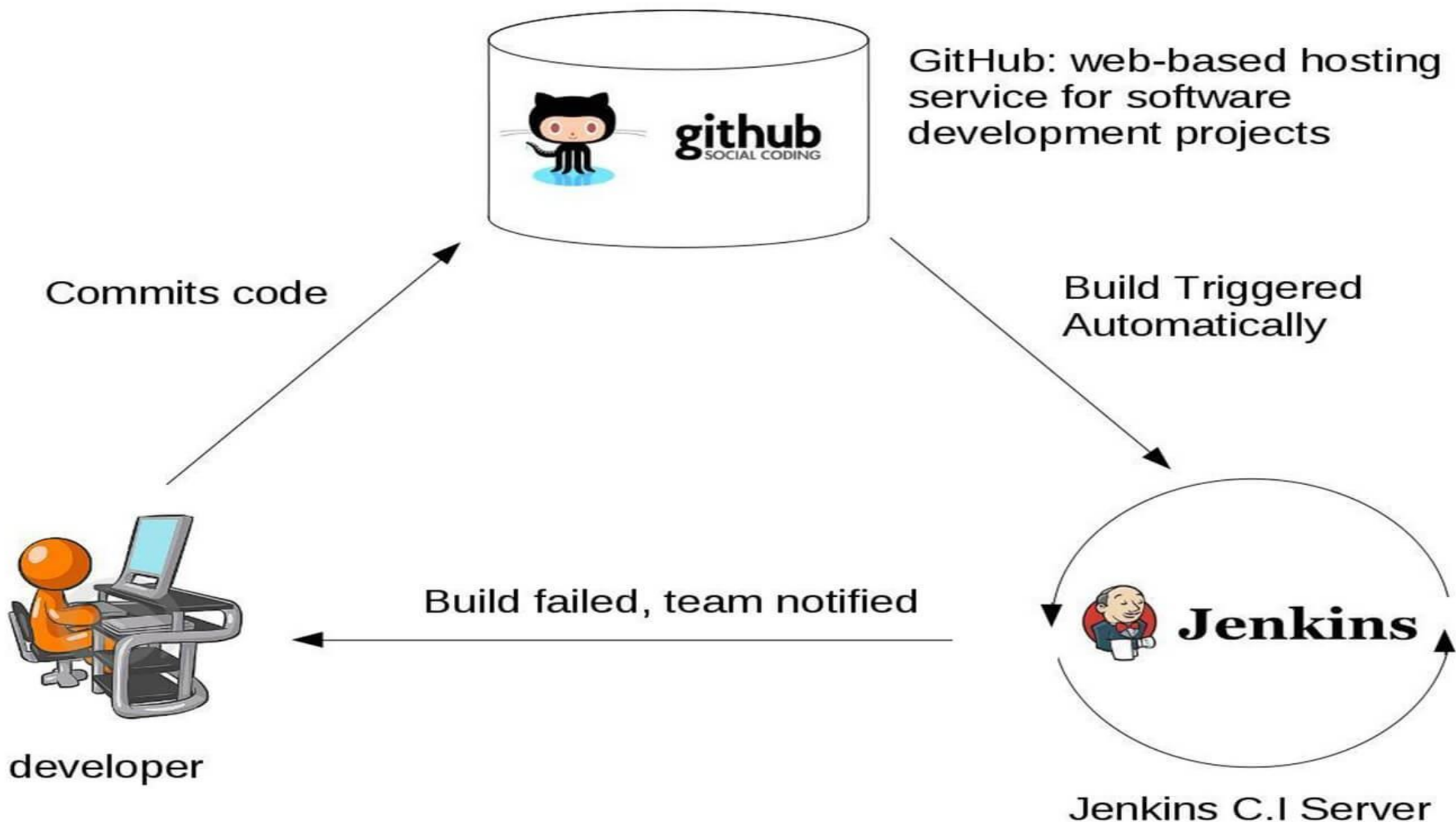
Jenkins Architecture



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



References:

- Jenkins Full Course | Jenkins Tutorial For Beginners | Jenkins Tutorial |Simplilearn