

CONTINUOUS DELIVERY

CI/CD Proposal for UDAPEOPLE



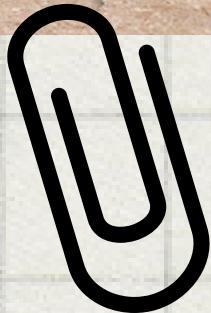
1. What is CI/CD

2. Why CI/CD

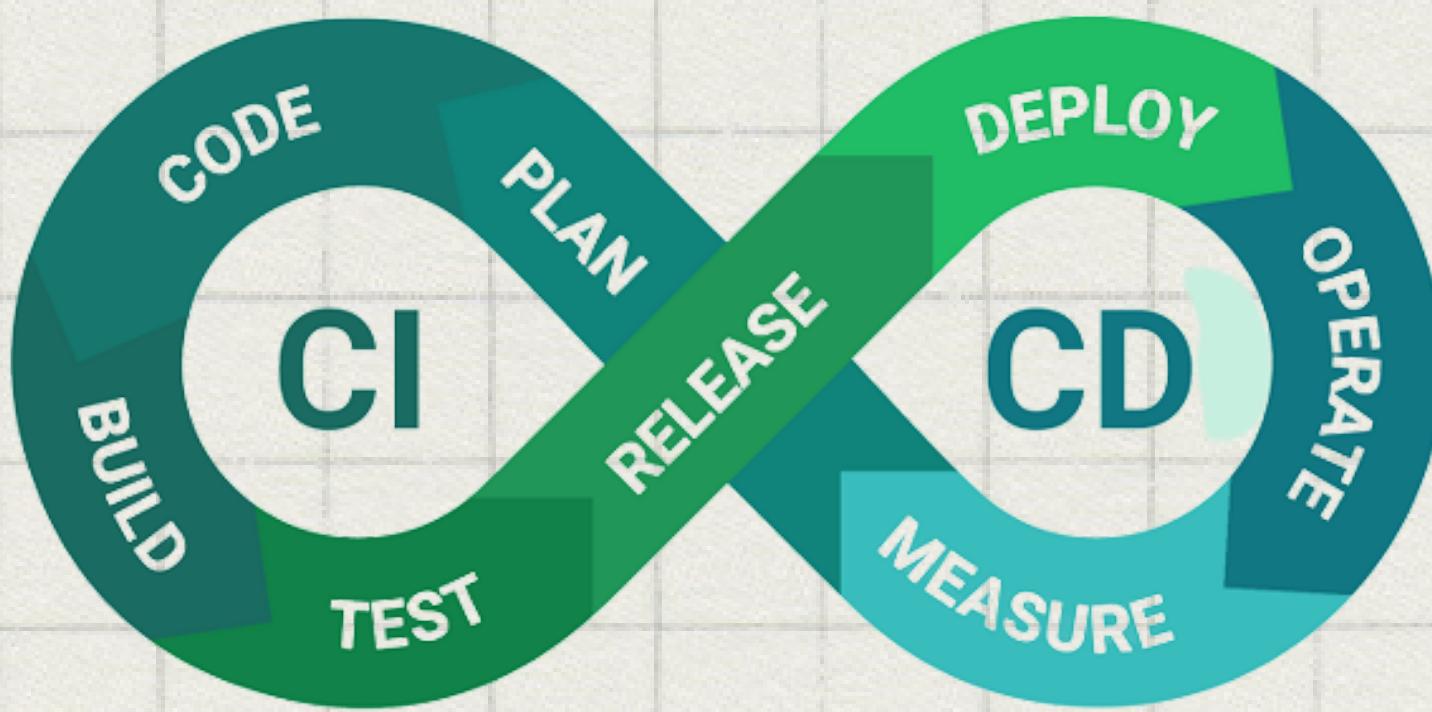
3. CI/CD Tools



1. WHAT IS CI/CD



Continuous integration (CI) and *continuous delivery (CD)* are the processes that automate your software development workflows and deploy better quality code, more often. Using a continuous and iterative process to build, test and deploy helps avoid bugs, and code failures.



WHAT IS CI/CD



Continuous integration(CI) is the practice of integrating all your code change into the main branch. Auto testing each change when the code is committed or merged. Bugs and errors can be detected and fixed more easily and much earlier in the SDLC (software development lifecycle).

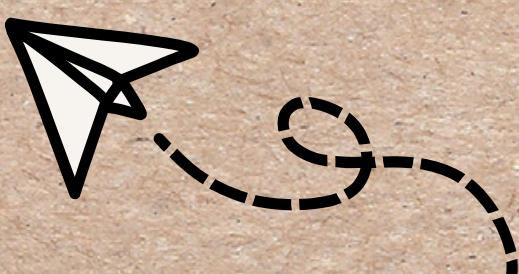
Continuous delivery (CD) is works in conjunction with CI to automate prepared for a release production without the need of human intervention. It allows to take the code in the repository and continuous delivery it to production.





WHY CI/CD

- ***Reduce risk:*** detect bug earlier and fix them immediately. It is minimizing risk in the real time.
- ***Deliver faster:*** fix bug as soon as possible. It make you can build, test, deploy code automatically without manual human intervention.
- ***Easier to rollback:*** It's easily to rollback changes quickly if any new code make the production application breaks.
- ***Log generation:*** It helps you understand the reason why the system crash or something wrong with the production application.
- ***Cost effectiveness:*** with automated process, developer can detect and resolve issues early and avoid critical problems in the production environment.





CI/CD TOOLS



Jenkins



circleci



Bamboo



GitLab

Thank you for your
watching!

