What is CI/CD?

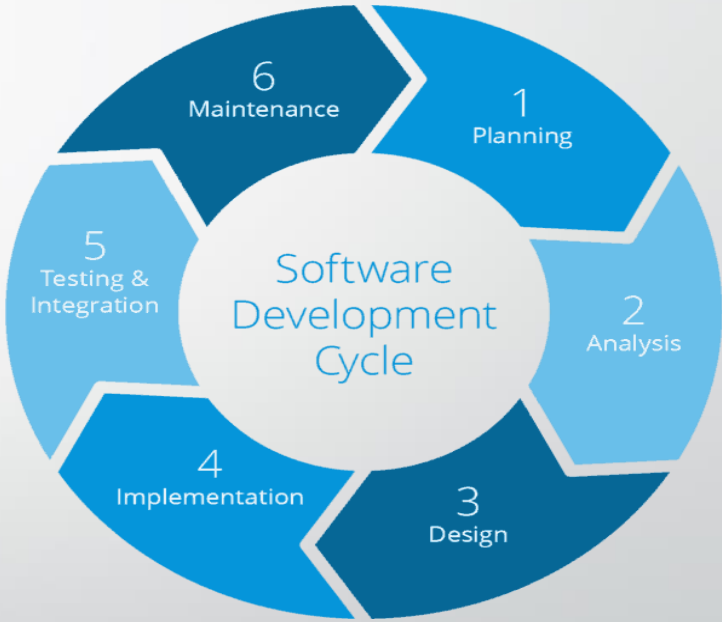
presentation

Contents:

- Concept, definition and what does it mean.
- Benefits and advantages
- Why it’s important
- Cost
- Stacks

What is CI/CD ?

- CI/CD stands for continuous integration / continuous deployment.
- It refers to the software development lifecycle in DevOps(development-Operations)
- CI : A development practice that require developers to integrate into a shared repository. The code gets verified by an automated build to detect any up coming problems early on.
- CD : Is the automation of delivery of the completed code.



Benefits

CI/CD Language	Captured value	Translation
Automated Application Test	Project Revenue	Reduced time to catch major bugs
Automated and Easy Rollback if failed	Protect revenue	Quick undo to errors
Faster Product Delivery	Reduced cost	New value generates feature released faster
Security vulnerability detection	Avoid Cost	Avoid Security Holes
Faster Feedback	Avoids Cost	Fails Quickly so you can catch errors faster
Catches compile errors	Reduce Cost	Developer won't spend time to find compile errors

Why is it important

- *CI/CD is important because it helps Dev and Ops professionals work as efficiently and effectively as possible. It decreases tedious and time-consuming manual development work and legacy approval processes, freeing DevOps teams to be more innovative in their software development. Automation makes processes predictable and repeatable so that there is less opportunity for error from human intervention. DevOps teams gain faster feedback and can integrate smaller changes frequently to reduce the risk of build-breaking changes. Making DevOps processes continuous and iterative speeds software development lifecycles so organizations can ship more features that customers love.*

Technology stack for CI/CD