



Continuous Integration and Continuous Deployment

Benefit of CI/CD and how to achieve it

What is CI/CD ?

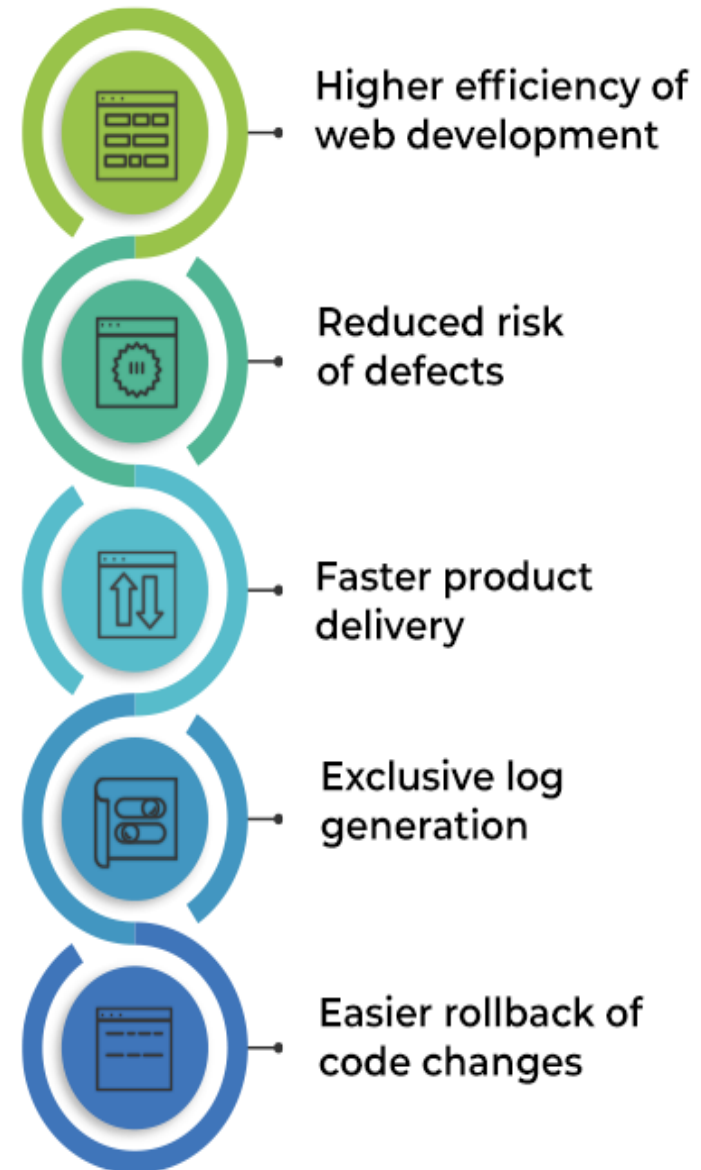
- Continuous integration and continuous deployment (CI/CD) is a set of ideas, processes, and capabilities that enables software changes to be delivered to users in a timely, repeatable, and secure manner by introducing automation into software development processes.
- Continuous integration (CI) validates all the stages of the development process while optimizing the code release cycles through automation capabilities
- Continuous deployment (CD) focuses on setting up a bundled artifact into a production environment in the fastest way possible. It automates the whole distribution process, including deployment

CI/CD Pipeline



Benefit of CI/CD

- Higher efficiency
- Reduced risk of defects
- Faster product delivery
- Quick rollback if required
- Better planning
- Efficient testing & monitoring
- Cost-effectiveness
- Protect the revenue – value – generating features release more quickly
- Avoid cost – less bugs in production and less time in testing



How to achieve it ?

- Merge code daily
- Push to master every day
- Automate the maximum number of tests possible
- Run multiple tests simultaneously
- Manage a clean testing environment
- Follow version management
- Simplify the code migration process
- Go for the right tooling



Thank You