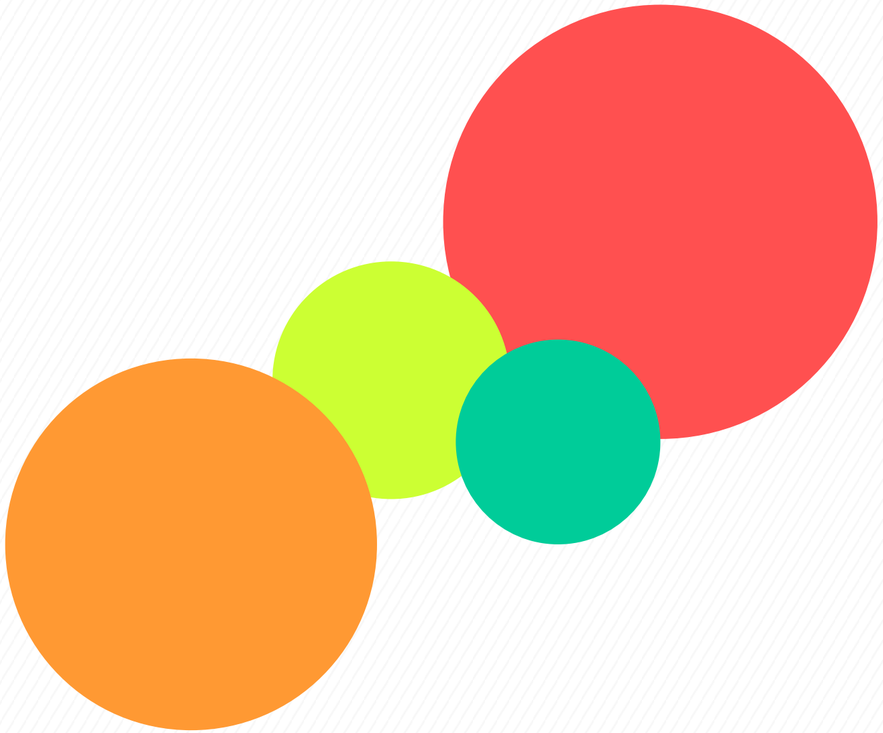
WHAT IS CI/CD



CI

Continuous integration, or CI as it's often known, is the practice of having everyone working on the same software project share their changes to the codebase regularly and then checking that the code still works as it should after each change. Continuous integration forms a key part of the DevOps approach to building and releasing software, which promotes collaboration, automation and short feedback cycles.

CD

Continuous deployment takes the DevOps practice of automating build, test and deployment steps to its logical extreme. If a change to the code successfully passes all previous stages of the pipeline, that change is automatically deployed to production without any manual intervention. Adopting continuous deployment means you can get new features to your users as fast as possible, without compromising on quality.

WHY CI/CD IS IMPORTANT

1

Customer satisfaction (Increase Revenue)

Buggy software can harm your brand reputation Utilizing a CI/CD approach keeps your product up-to-date with the latest technology and allows you to gain new customers and guarantee long-term contracts for your company.

2

Reduce Costs and Boost Profits (Increase Revenue)

Lower the chances of mistakes and limits the potential impact and loss that a deployment problem and bugs can cause.

3

Smaller Backlog (Cost Avoidance)

As most of the process is automated so your tester now has the time to deeply focus on the important phases of testing to get a higher-quality product.

4

Shorter MTTR - Accelerated Time to Market (Cost Avoidance)

It makes the Mean time to resolution shorter because of smaller changes with faster fault isolation.

The release frequency will increase dramatically which makes the way from development to production too short

5

Fault Isolations (Protect Revenue)

It helps to isolate the faults and makes them faster and easier to be detected by combining monitoring the systems to report the stage and locations of the faults.

6

Increased productivity (Cost Avoidance)

Thanks to the Automation of routine processes now the developer can focus on the crucial tasks only.