CI/CD

01

What is
CI/CD?

02

Why
CI/CD?

03

CI/CD
Lifecycle

04

Benefits of
CI\CD into
revenue

What is CI/CD?

Continuous Integration is the practice of integrating code into a shared repository and building/testing each change automatically, as early as possible - usually several times a day.

Continuous Delivery adds that the software can be released to production at any time, often by automatically pushing changes to a staging system

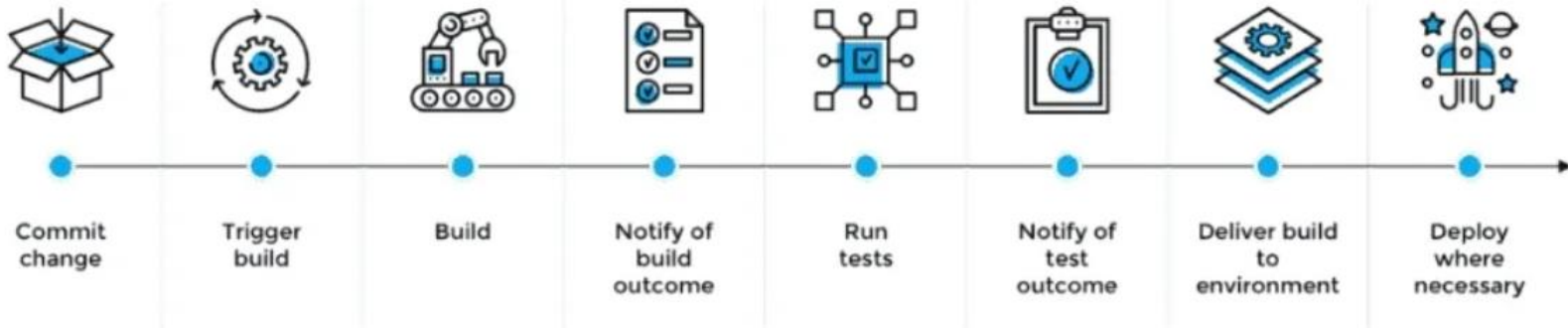**Continuous Deployment** goes further and pushes changes to production automatically

Why (CI/CD)?

Continuous Integration

Detects errors as quickly as possible
Fix while fresh in your mind
Reduces integration problems
Smaller problems are easier to digest
Don't compound problems
Allows teams to develop faster, with more confidence

Continuous Delivery

Ensures that every change to the system is releasable
Lowers risk of each release - makes releases "boring"
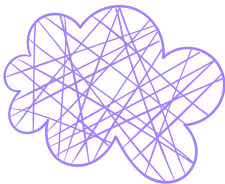Delivers value more frequently
Get fast feedback on what users care about

CI/CD Lifecycle

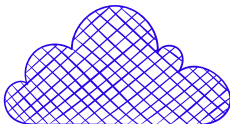| Commit change | Trigger build | Build | Notify of build outcome | Run tests | Notify of test outcome | Deliver build to environment | Deploy where necessary |

Doodle Clouds Infographics

Benefits of CI\CD into revenue

Deeply expensive downtime

Long-term downtime does not only influence your revenue negatively but also undermines your company's credibility.

Troubleshooting costs

With CI/CD pipeline properly automated, the process of the product deployment and release is more reliable and developers are not wasting hours on bug-fixing.

Switching/onboarding costs.

Automated CI/CD let new members of the team get down to business right away without having to deal with an exhausting learning curve.
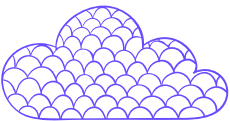
Staff turnover costs

Happy employees — more successful company! When developers are freed from manual, repetitive tasks, they focus on creating new features and code and continuous quality improvement.