

Benefits of CI/CD

Build and Deploy Automation for Cloud-Based Software Products

What is CD/CD?

Automation in building, testing and deployment of applications

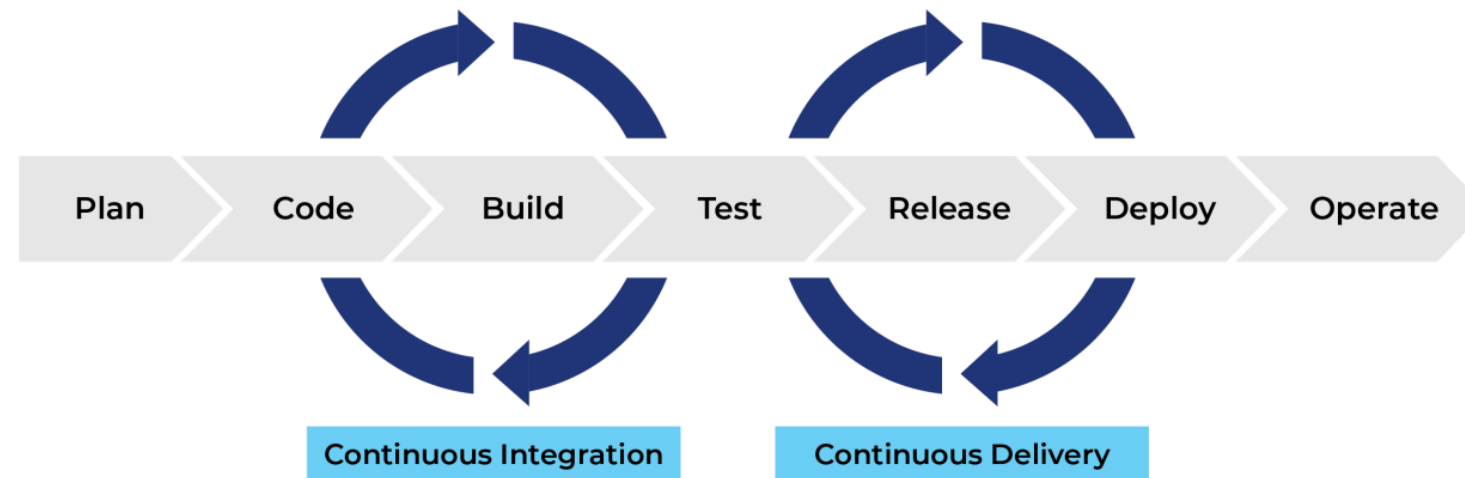


Image source: [LinkedIn](#)

CI/CD services compile the incremental code changes made by developers, then link and package them into software deliverables. Automated tests verify the software functionality, and automated deployment services deliver them to end users.

The aim is to increase early defect discovery, increase productivity, and provide faster release cycles.

Benefits

Reducing or avoiding cost

- Defects are caught early in the process makes them simpler, faster and cheaper to fix (cost save)
- Detecting and patching security vulnerabilities before releasing the product prevents costly security holes (cost save)
- Automated tests provides fast feedback loop for developers, who spend less time finding errors and more time on developing new features (cost save)
- Automated infrastructure creation, scaling and cleanup reduces infrastructure costs (cost save)

Benefits

Increasing or protecting revenue

- Automation reduces toil, so developers can focus on new features instead of fixing bugs slipped to production (revenue increase)
- New features can reach Customers faster (revenue increase)
- Automated smoke tests with rollback protect revenue via minimising service downtime (revenue protection)
- DevSecOps practices attract and retain talent in an organisation (revenue protection)