
CI/CD - A BETTER WAY TO BUILD AND SHIP PRODUCTS TO MARKET

BENEFITS OF CI/CD TO ACHIEVE BUILD AND DEPLOY AUTOMATION WITHIN OUR COMPANY'S PRODUCTS



CONTINUOUS INTEGRATION

The practice of merging all developers' working copies to a shared mainline several times a day. It's the process of "Making".

Everything related to the code fits here, and it all culminates in the ultimate goal of CI: a high quality, deployable artifact

- Some common CI-related phases might include:
 - Compile
 - Unit Test
 - Static Analysis
 - Dependency vulnerability testing
 - Store artifact

CONTINUOUS DEPLOYMENT

- - A software engineering approach in which the value is delivered frequently through automated deployments.
- - Everything related to deploying the artifact autonomously fits here. It's the process of "Moving" the artifact from the shelf to the spotlight without human intervention.
- - Some common CD-related phases might include:
 - - Creating and configuring infrastructure
 - - Promoting to production
 - - Smoke Testing (aka Verify)
 - - Rollbacks in case of any failure

BENEFITS OF CI/CD AT THE BUSINESS LEVEL

- - The rationale of CI/CD is the famous saying: 'a penny saved is a penny earned', so here's a preview of the benefits of setting up a CI/CD pipeline:
 - - Automate Infrastructure Creation:
 - This will help to avoid cost by providing less human error, which means faster deployments
 - - Faster and More Frequent Production Deployments:
 - This would help to increase revenue by releasing new value-generating features more quickly
 - - Automated Smoke Tests:
 - This would help protect revenue by reducing downtime from a deploy-related crash or a major bug

BENEFITS OF CI/CD AT THE BUSINESS LEVEL

- - Detect Security Vulnerabilities:
 - This would help to avoid cost by preventing embarrassing or costly security holes.
- - Deploy to Production Without Manual Checks:
 - This would help to increase revenue by making features take less time to market.
- - Detect Security Vulnerabilities:
 - This would help to avoid cost by preventing embarrassing or costly security holes.
- And many more ...