



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

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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

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CONTINUOUS DEVELOPMENT

- 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

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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.
 - 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.

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THE END