CI/CD - the What and the Why!!

CI - Continuous Integration

A practice of merging all developers' working copies to a shared mainline repository several times a day with steps that include: compiling, unit testing, security analysis

CD - Continuous Deployment

A software engineering approach in which teams produce and release value in short cycles through various steps including: creating infrastructure, provisioning servers, promoting to production, rollbacks etc.

Why CI/CD?

Reduce Cost

Why?

- Less developer time on issues from new developer code

- Less infrastructure costs from unused resources

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Avoid Cost

Why?

- Less bugs in production and less time in testing

- Prevent embarrassing or costly security holes

- Less human error, Faster deployments

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Increase & Protect Revenue

Why?

- New value-generating features released more quickly

- Less time to market

- Reduced downtime from a deploy-related crash or major bug

- Quick undo to return production to working state