

The background is a dark blue gradient. On the left, there is a circular inset showing a close-up of a circuit board with various components. A magnifying glass is positioned over this inset. Above the magnifying glass, there are two overlapping geometric shapes: a blue parallelogram and a light green parallelogram. In the top right corner, there is a faint, stylized graphic of a circuit board or a city skyline.

Introducing CI/CD: The True North



Overview

CI/CD is in its base definition a series of steps in delivering software. They make up the Continuous Delivery paradigm and form a backbone of modern development



Overview

Continuous Integration (CI) is the practice of merging individual code changes into a shared main repository multiple times in a day.

Continuous Deployment (CD) is an approach that allows for frequent delivery of value to users through automated deployment.



Benefits Of CI/CD

- 01 **Faster Deployment :** It lets users/customers get new features early. This increases revenue as a result of the new features
- 02 **Improvement in Collaboration and Quality:** Increases efficiency and increases returns on investments, thereby increasing profit
- 03 **Frequent code commits:** The dev team identifies bugs early and fixes them before they get to production. This protects revenue



Benefits Of CI/CD

- 04 Enhance Code Quality : It prevents siloed working and allows developers to integrate code into the repository frequently and in small batches. This prevents cost and protects revenue
- 05 Automated Infrastructure creation and teardown: This reduces human errors in provisioning resources. It also allows for consistency. It reduces costs
- 06 Continuous Feedback: The dev team gets alerted of a fault early, this, alongside user data and performance metrics, allows organizations to identify what works for their organizations. It protects and increases revenue



Project objective

This is to introduce us to CI/CD and show us some of the benefits of full adoption. It might take some time getting to know, but the benefits that come along with it is worth the effort that would be put into the adoption.

