

# Continuous Integration - CI

- Continuous integration (CI) is a software development strategy that increases the speed of development while ensuring the quality of the code that teams deploy. Small parts of the code are continuously committed by developers (at least once per day, if not more), which are then automatically built and tested before being merged with the shared repository.

# CI Benefits

- Improve team productivity and efficiency
- Accelerate speed to market
- Identify product/market fit
- Release higher quality, more stable products
- Increase customer satisfaction
- Keep developers happy and shipping code

# Continuous Deployment - CD

- Continuous Deployment (CD) is a strategy for software releases wherein any code commit that passes the automated testing phase is automatically released into the production environment, making changes that are visible to the software's users.

# CD Benefits

- Increase the focus on the product.
- Automate the repetitive tasks and focus on actual testing.
- Automated rollbacks in case of failure.
- Make deployments frictionless without compromising security.
- Improve overall productivity.

# Cost Effective Solution

Fast/frequently released software and features save not only time but also cut down on:

- Deeply expensive downtime.
- Troubleshooting costs.
- Switching/onboarding costs.
- Staff turnover costs.