What is meant by CI/CD

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.

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.

Why CI/CD

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

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.

Business Benefits of CI/CD

- Bring Products to Market Faster where the organizations can bring new products and features to market faster and immediately start generating revenue from the features they deploy.

- More engineers are working on the app instead of maintenance therefore, less of the budget is spent on activities that don't generate revenue.

Business Benefits of CI/CD

- It reduces the probability that any bugs slip through the cracks and cause problems down the line, this practice lower development costs by eliminating the costs incurred while building and testing code changes.

- CI/CD makes it easier to deliver high-quality products to market faster and respond to feedback as it comes in, organizations stand to see an increase in profits. Customers stick around longer and will recommend your products to others in their network.