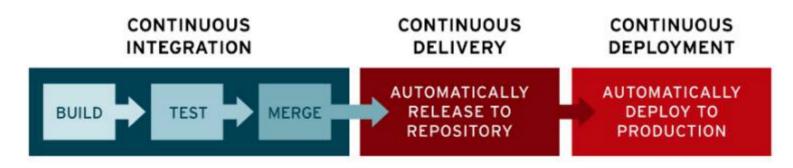# Continuous Integration & Continuous Deployment

Ragavendra Koppuravari

CI/CD

- CI/CD automates the software development process from code changes to deployment.

- It enables frequent code releases, faster time to market, and improved software quality.

- It requires a strong focus on testing, version control, and collaboration among development and operations teams.

CONTINUOUS INTEGRATION | CONTINUOUS DELIVERY | CONTINUOUS DEPLOYMENT

BUILD → TEST → MERGE → AUTOMATICALLY RELEASE TO REPOSITORY → AUTOMATICALLY DEPLOY TO PRODUCTION

CI/CD: Fast and Reliable Software Delivery

- Faster Time to Market: CI/CD speeds up release time, giving you a competitive edge.

- Improved Software Quality: CI/CD catches errors early, reducing bugs in production.

- Enhanced Collaboration: CI/CD promotes better communication and transparency.

- Increased Efficiency: CI/CD automates processes, freeing up developers to focus on code.

- Cost Savings: CI/CD reduces downtime and customer complaints, saving costs.

Revenue Benefits

- Faster Time to Market

- Increased Frequency of Releases

- Improved Customer Satisfaction

- Improved Quality and Reliability

- Faster Response to Market Changes

- Improved Competitive Advantage

- Improved Productivity

- Improved Innovation

Cost Benefits

- Reduced Downtime
- Reduced IT Infrastructure Costs

  Reduced Time to Resolution
- Reduced Production Support Costs
- Reduced Compliance Costs
- Reduced Rollback Costs
- Reduced Technical Debt
- Reduced Time to Market