Deployment Superpowers: CI/CD

Why we should use CI/CD?

What is CI/CD?

- Continuous Integration (CI) is the software development practice of regularly integrating code changes into a shared code repository. Each code change(commit) triggers a build during which tests are run that help to identify if anything was broken by the changes.
- Continuous deployment (CD) is the software development practice which allows us to automatically deploy live every main branch change that passes the CI.

Benefits of CI/CD

- **Smaller code changes**
- **Improvement in Collaboration and Quality**
- **Faster Release Rate**
- **Smaller Backlog**
- **More Test Reliability**

Benefits of CI/CD contd...

- **Fault Detection & Isolation**
- **Reduce Costs**
- **Enhanced Performance Metrics**