



Fundamentals and Benefits of CI/CD

Definitions

- CI - Continuous integration (CI) is **the practice of automating the integration of code changes from multiple contributors into a single software project**. It's a primary DevOps best practice, allowing developers to frequently merge code changes into a central repository where builds and tests then run.
- CD - Continuous deployment 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**.



Technical Benefits

1. Reduce risk
2. Deliver faster
3. Expend less manual effort
4. Generate extensive logs
5. Make easier rollbacks



Business Benefits

1. Reduce cost
2. Avoid cost
3. Increase revenue
4. Protect revenue