
Benefits of CI/CD

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What is CI/CD

CI/CD stands for

- Continuous Integration
- Continuous Deployment

Continuous Integration (CI)

Continuous Integration is the practice of merging all developers' working copies into a shared mainline or repository.

Continuous Integration handles everything that has to do with code:

- Compiling
- Unit testing
- Static analysis
- Vulnerability testing

Continuous Deployment (CD)

Continuous Deployment is the approach in which value is delivered frequently through automated deployments.

Continuous Deployment handles everything that has to do with deployments:

- Creating infrastructure
- Provisioning servers
- Copying files
- Promoting to production

Benefits of CI/CD

Benefits	Business value	Developer value
Catch compile errors after merge	Reduce costs	Less development time spent on issues with new code
Catch unit test failures	Avoid costs	Less bugs in production and less time in testing
Faster and more frequent production deployments	Increase revenue	New value-generating features released faster

Benefits of CI/CD

Benefits	Business value	Developer value
Deploy to production without manual checks	Increase revenue	Less time to market
Automated smoke tests	Protect revenue	Reduced downtime from a bug in the production environment