

CI/CD - A Better Way to Develop and Deliver Products to Market

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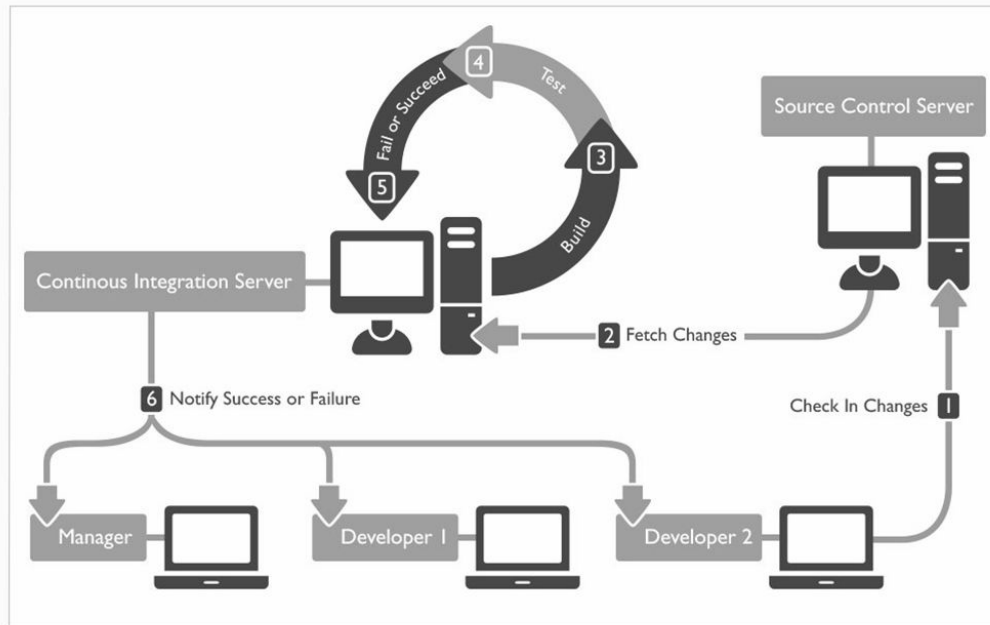
Agenda

1. What is **CI**?
2. What is **CD**?
3. What will CI/CD help us **Avoid**?
4. What will CI/CD help us **Gain**?

What is **CI**?

Continuous Integration

- ❖ Several times every day, developer branches are ready to be merged with the main branch
- ❖ Automating the branches merge is **Continuous Integration**
- ❖ **CI** emphasises test automation and produces high-quality deployable artefacts

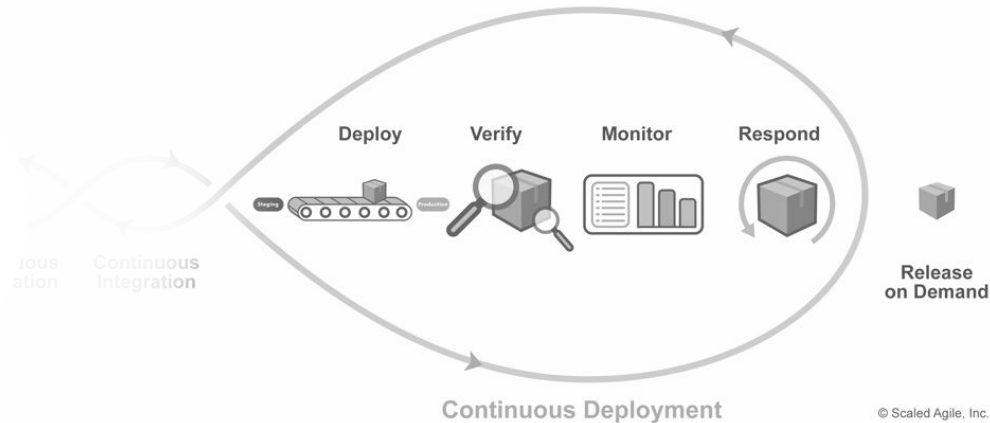


Typical CI process (source: www.pepgotesting.com)

What is **CD**?

Continuous Deployment

- ❖ Code updates to an application are automatically pushed into the production environment as part of **Continuous Deployment** without any human intervention.
- ❖ Smoke tests serve as the foundation for this automation.
- ❖ This mechanism directly delivers new updates to users of the software after they pass those tests.



Typical CD activities (source: www.scaledagileframework.com)

What will CI/CD help us Avoid?

COST 💰💰💰

**Fewer production issues and
less testing time**

**Avoid conspicuous or expensive
security vulnerabilities**

**Less human errors and quicker
deployments**



What will CI/CD help us Gain?



INCREASE IN REVENUE

Quicker release of new features that provide value

Time to market is reduced

REVENUE PROTECTION

Reduced downtime caused by a major bug or crash related to deployment

Immediate undo to get the production back to normal