

# Devops Series -

Continuous Integration & Continuous Delivery

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# Continuous Integration

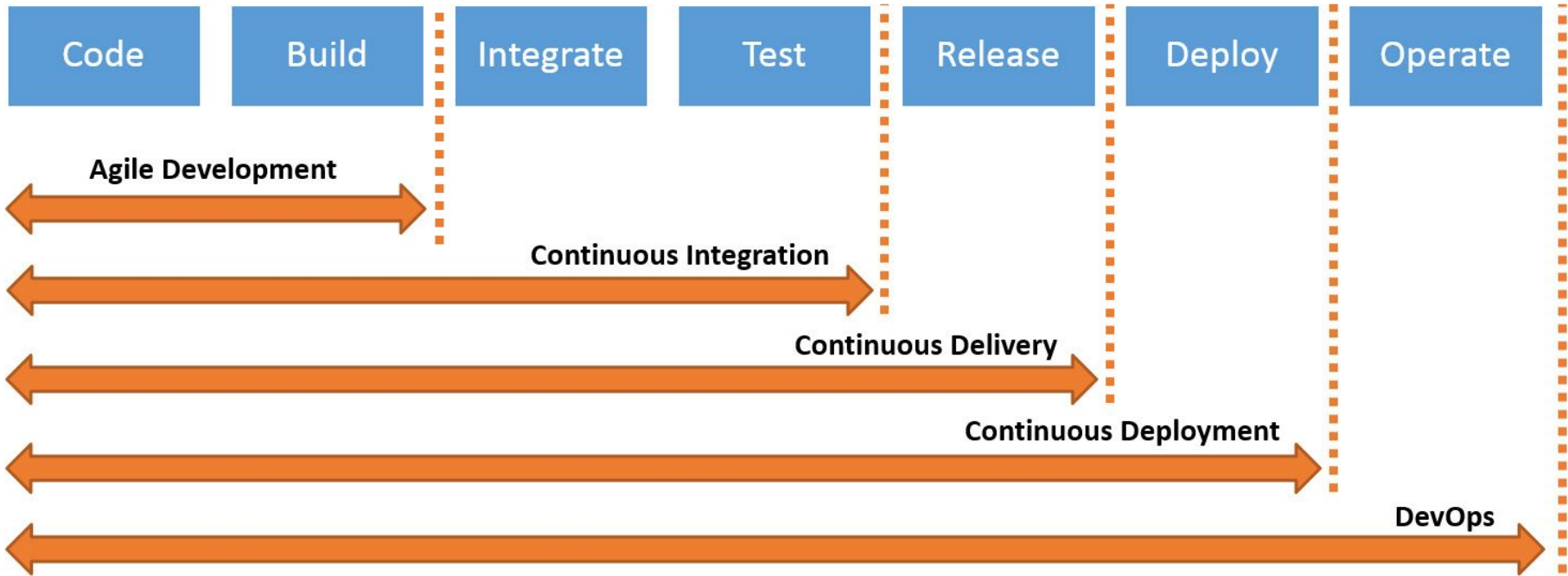
**Continuous Integration** is merging all code from all developers to one central branch of the repo many times a day trying to avoid conflicts in the code in the future. The concept here is to have *multiple devs on a project to keep the main branch of the repo to the most current form of the source code, so each dev can check out or pull from the latest code to avoid conflicts.*

# Continuous Delivery

**Continuous delivery (CD)** is a software engineering practice in which teams develop, build, test, and release software in short cycles. It depends on automation at every stage so that cycles can be both quick and reliable.

# Continuous Deployment

**Continuous Deployment** is the process by which qualified changes in software code or architecture are deployed to production as soon as they are ready and without human intervention.



# Demo - Azure Devops

# Free

## Unlimited users and build time

- **Azure Pipelines:** 10 parallel jobs with unlimited minutes for CI/CD
- **Azure Boards:** Work item tracking and Kanban boards
- **Azure Repos:** Unlimited public Git repos

Start for free

# Free

## Start free with up to 5 users

- **Azure Pipelines:** 1 hosted job with 1,800 minutes per month for CI/CD and 1 self-hosted job
- **Azure Boards:** Work item tracking and Kanban boards
- **Azure Repos:** Unlimited private Git repos
- **Azure Artifacts:** Package management (5 users free)
- Load testing (20,000 VUMs/month)
- Unlimited stakeholders

Start for free

# \$30/mo

10 Users

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- Visual Studio subscribers included free

Start