

What is DevOps?

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Developer

- Writes the code
- Develop unit tests to evaluate the code he wrote
- Tests the code on his development environment
- Fixes the bugs found by QA

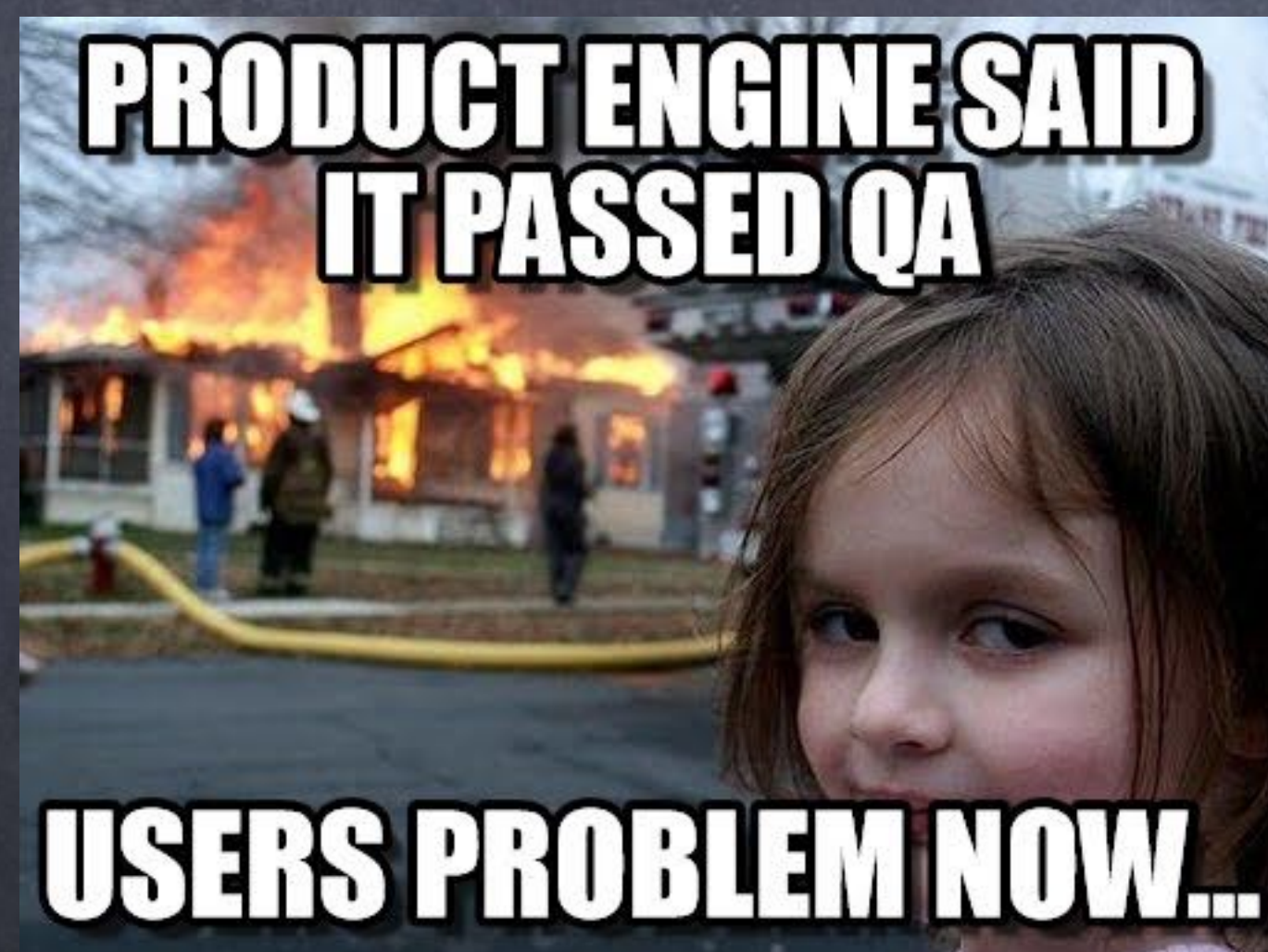
QA

- Tests the code
- Automates the test cases
- Debug issues happening in production
- File bugs for developers to fix :)

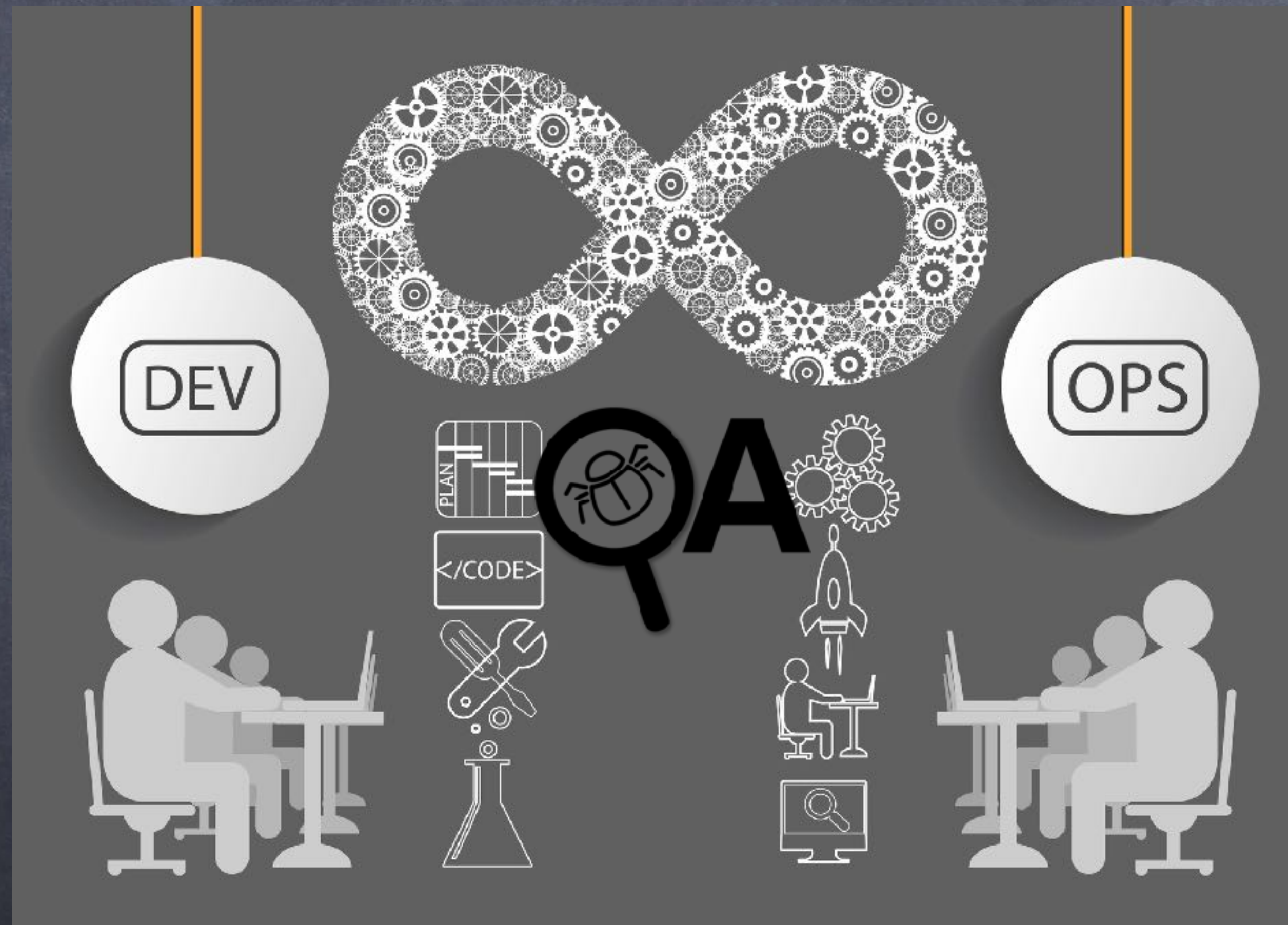
Operations (ops)

- Deploys the code to production
- Monitors the production system for the "fires"
- Diagnoses and debugs code in production for issues
- Manages infrastructure on where the code gets deployed

Separation of concerns often results in a blame game



Devops integrates QA, Developers and Operations teams
so they can work better together



To build a collaborative deployment pipeline, we
need several things...

Source code control system is required

Obvious, but worth noting. You need:

- * shared place for storing the code
- * version control
- * code review

Tools:

- * Git! perhaps the most popular one
- * SVN

Automation is the key

Automate, automate, automate

- * Tests
- * Deployment
- * Infrastructure
- * Monitoring of performance and stability

Continuous Integration (CI)

A way to incorporate and test incremental changes to larger code base automatically

Tools:

- * Drone
- * Jenkins
- * Travis CI

Example:

- * Github pull request with Drone CI configured

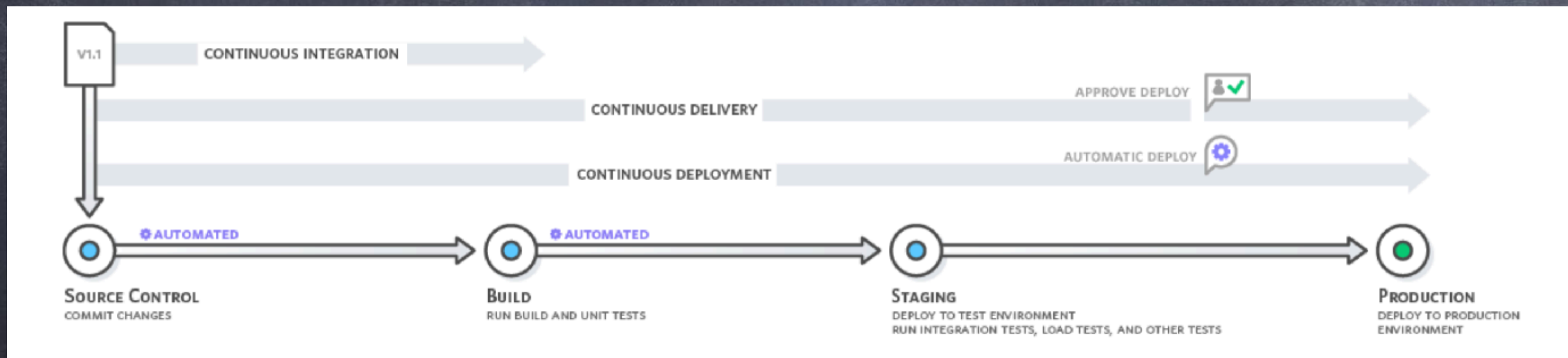
That all makes a Continuous Delivery (CD)

A process to:

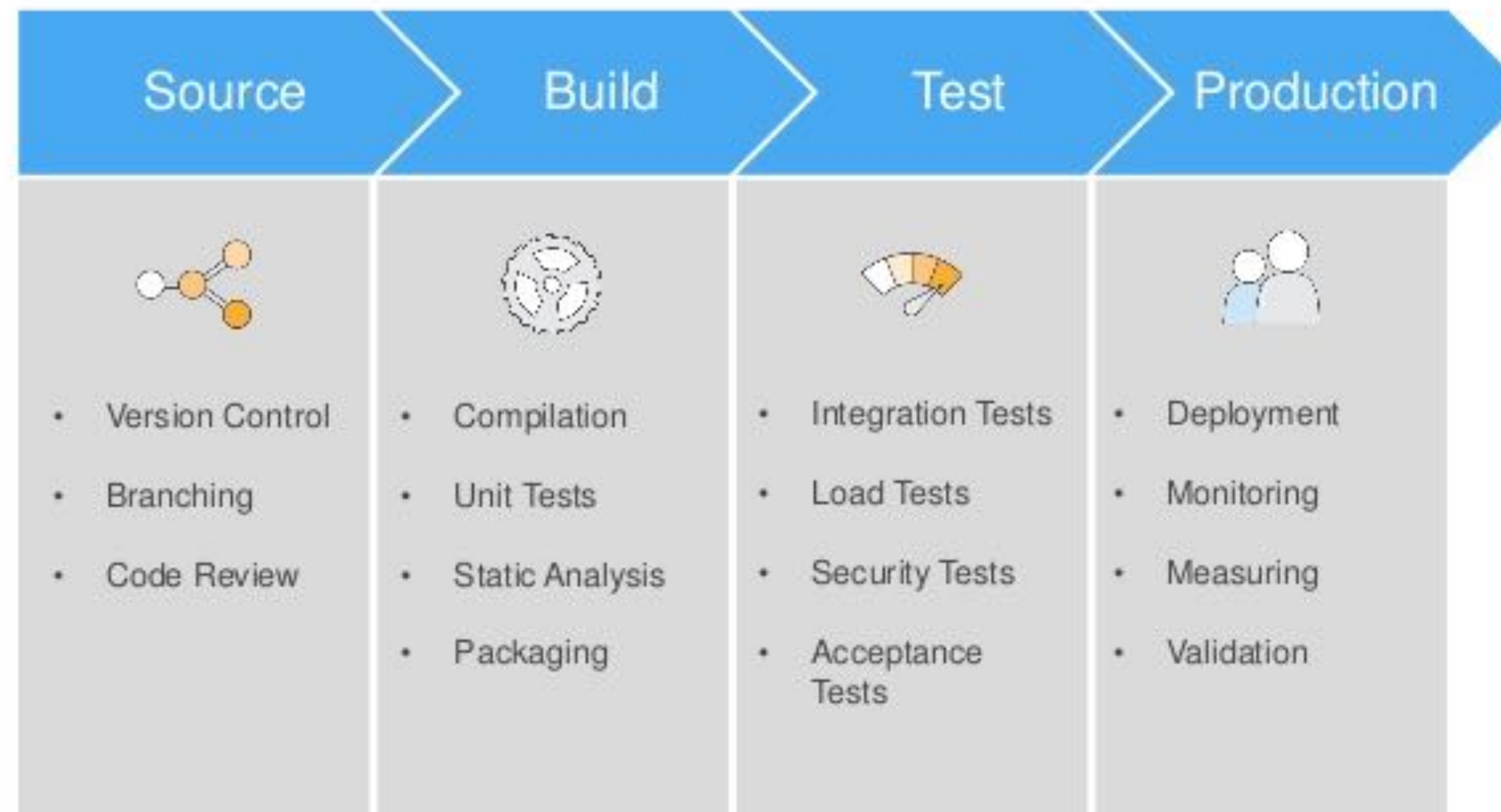
- Build
- Test
- Deliver to the user

Continuous Delivery vs Continuous Deployment

- Deployment pushes code to production automatically
- Delivery needs an explicit approval



Summary



Demo time

Thank you!