



Course Summary

DevOps Course

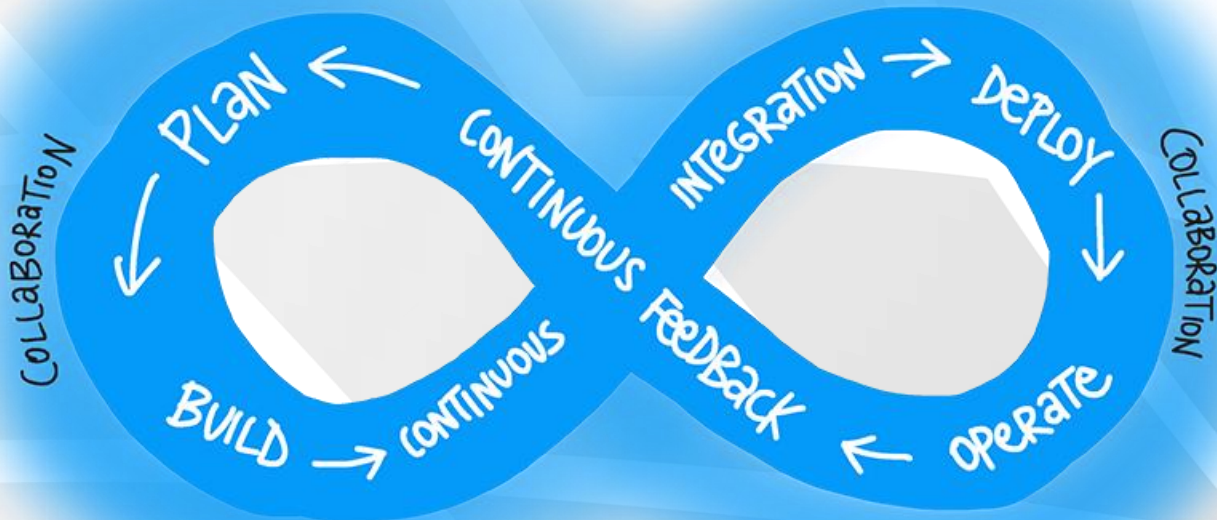
Agenda

- ★ Course Overview
- ★ Quiz & Survey

DevOps (Development + Operations)

✦ DevOps is a culture that encourages:

- ✦ Communication
- ✦ Collaboration
- ✦ Integration



DevOps Practices

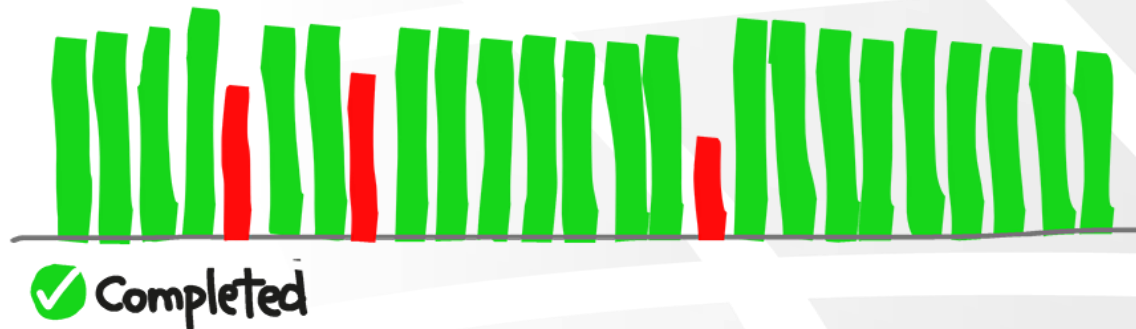
- ✦ Agile Planning
- ✦ Automation
- ✦ Continuous Integration
- ✦ Continuous Testing
- ✦ Continuous Delivery/Deployment
- ✦ Monitoring



Continuous Integration (CI)

- ✦ Continuous integration is a practice where you integrate the code very often to find the issues in the earlier stages.

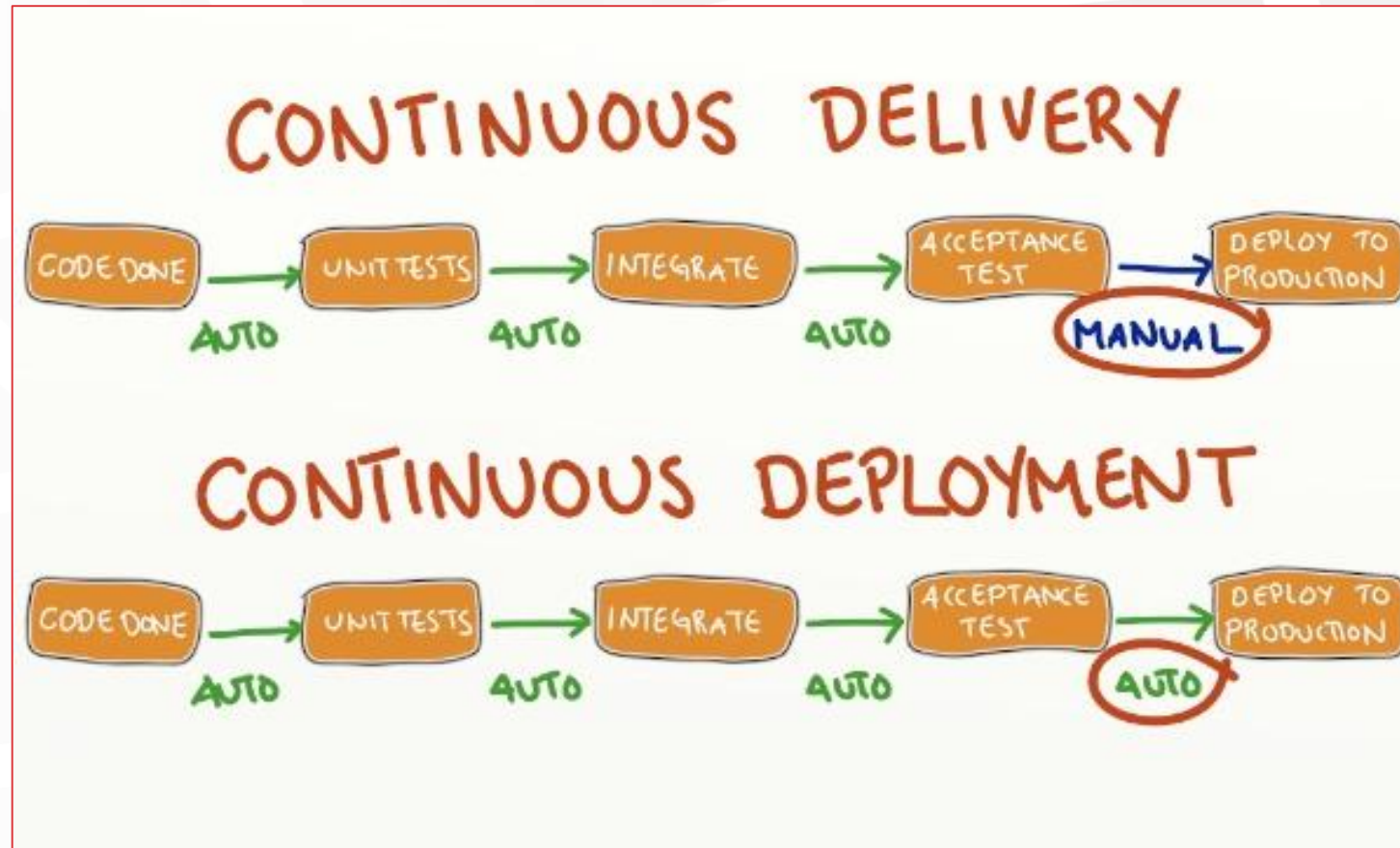
BUILD Succeeded



Continuous Integration Practices

- ✦ Keep everything under version control
- ✦ Automate the build and run unit tests
- ✦ Commit early and often
- ✦ Fix build errors immediately
- ✦ Keep the build fast
- ✦ Make it easy to get the latest build results
- ✦ Ensure that the build process is transparent to everyone

Continuous Delivery/Deployment (CD)



CI/CD Benefits

- ✦ Change occurs in smaller units
- ✦ Building the Right Product
- ✦ Improved Productivity and Efficiency
- ✦ Respond to marketing conditions more quickly
- ✦ Automated testing means more testing (better quality)
- ✦ Deliver software with fewer bugs and lower risk
- ✦ Increased automation, fewer mistakes

CI/CD Common Pitfalls

- ✦ Automating the wrong processes first
- ✦ Confusing continuous deployment for continuous delivery
- ✦ Lack of meaningful dashboards and metrics
- ✦ Lack of coordination between CI and CD
- ✦ Balancing the frequency of running CI jobs and resource utilization
- ✦ Choose the wrong tools

Tools Summary



Questions



Quiz & Survey

Final Lab



Quiz: <https://kahoot.it>

Survey: <https://goo.gl/forms/oCdTnA1N6owzDyQv2>