

What is CI/CD

Continuous Integration + Continuous Deployment = Continuous Delivery

Continuous Integration: The practice of merging all developers' working copies to a shared mainline several times a day.

Continuous Deployment: A software engineering approach in which the value is delivered frequently through automated deployments.

Continuous Delivery: An engineering practice in which teams produce and release value in short cycles.

8 Principles of Continuous Delivery

- 1. Repeatable Reliable Process
- 2. Automate Everything
- 3. Version Control Everything
- 4. Bring the Pain Forward
- 5. Build-in Quality
- 6. "Done" Means Released
- 7. Everyone is Responsible
- 8. Continuous Improvement

What does this mean for us?

Technical Jargon

Catch Compile Errors After Merge

Benefit

Less developer time on issues from new developer code ightarrow Reduce Cost

Technical Jargon

Catch Unit Test Failures

Benefit

Less bugs in production and less time in testing ightarrow Avoid Cost

Technical Jargon

Automate Infrastructure Cleanup

Benefit

Less infrastructure costs from unused resources → Reduce Cost

Technical Jargon

Deploy to Production Without Manual Checks

Benefit

Less time to market → Increase Revenue

Technical Jargon

Automated Rollback Triggered by Job Failure

Benefit

Quick undo to return production to working state → Protect Revenue

