

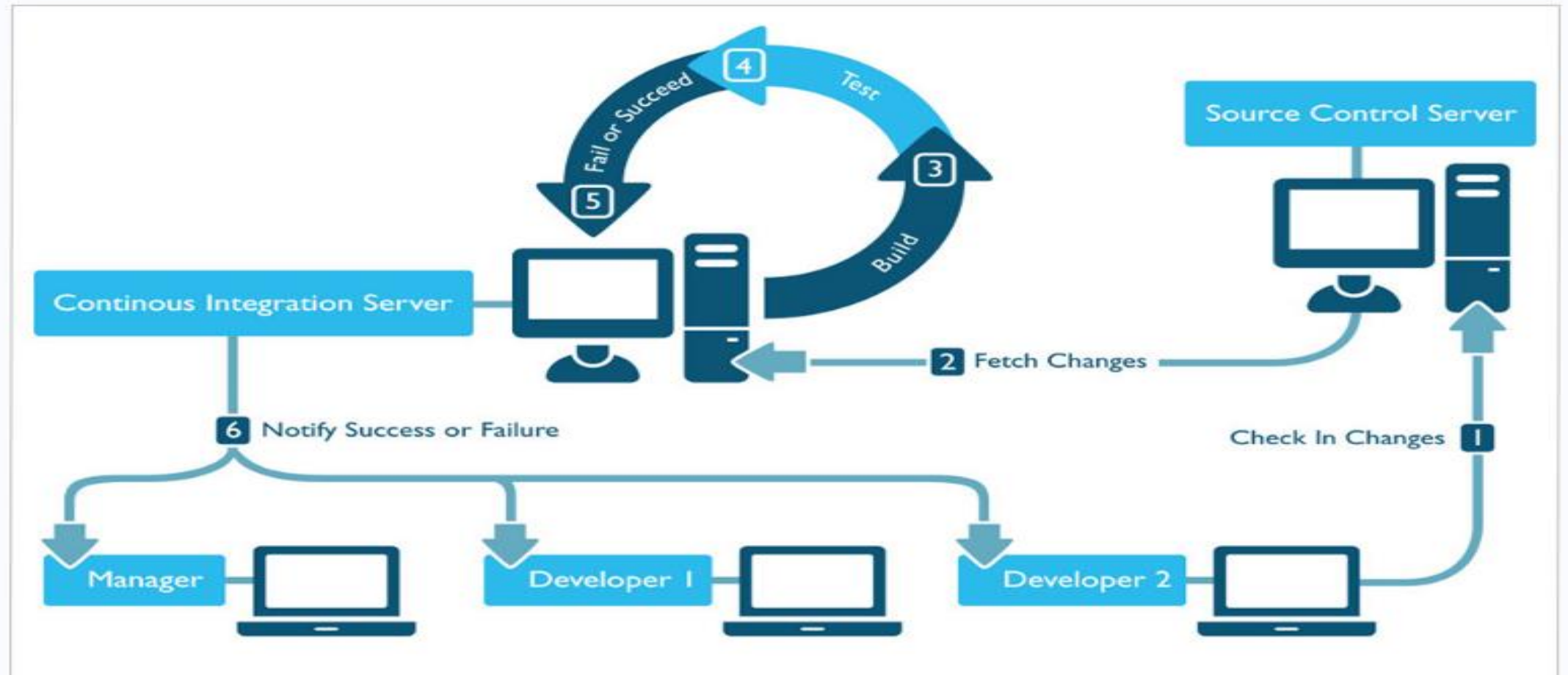
CI/CD (And Why it's good for Business)

What Is Continuous Integration ?

- ▶ Software is usually written by multiple developers\teams, each working independently
- ▶ But applications has to be “built” from a single, unified version of the source code
- ▶ Therefore, developers often need to “merge” their versions of the code into a single version
- ▶ Doing this manually is often tedious, error-prone and hit-or-miss

Continues Integration Is Good For Business!

- ▶ Mistakes cost more the longer-lived they are
- ▶ A mistake that the developer discovers as soon as he\she makes it costs almost nothing
- ▶ A Mistake that survives into launch costs the business its reputation and the trust of its customers
- ▶ Continues Integration is all about catching mistakes as soon as possible
- ▶ By setting up an automated process to catch mistakes in code, and running it as soon as any time new code is added or old code is deleted



A typical CI process, courtesy of Red Hat(<https://developers.redhat.com/>)

Continuous Delivery\Deployment : Keep Calm And Automate More Things

- ▶ Continuous Delivery and Continuous Deployment take the automation further than Continuous Integration
- ▶ By setting up an automated process to deploy the result of the final build (A finished software product) obtained from Continuous Integration to the End Users
- ▶ This keeps the complete path from code to user smooth and free of hassle and manual fiddling
- ▶ Also allows your business to experiment with novel strategies for testing new features, like A/B testing, Blue-Green deployments and Canary releases