

## The benefit of CI/CD

Technical terms	Translation in business
Catch Compile Errors After Merge	Reducing cost. Since the error will almost immediately catch after the developer finishes their job of writing the code and storing it in the code repository. The smaller merges, we can save a lot of time in detecting errors and solving them instead of waiting for a big release, which means a large of code will be merged. And then, when an error happens, at this time, it will be extremely difficult to detect the errors and solve them all. Lead into the budget for the overtime payment of the IT department will soon be exhausted.
Faster and More Frequent Production Deployments	Increasing revenue. The faster deployment of the product, the more quickly feedback from customers. It is very meaningful. Within the CI/CD, we can quickly catch up with the customer, solve their problem, give them more ideas for shopping, or serve them better. I can't see any of these benefits that don't lead to an increase in revenue.
Automate Infrastructure Cleanup	Reducing cost. By manually removing the infrastructure, we can easily forget one or more things that need to be destroyed to avoid the extra cost. Within CI/CD, automation clean-up will take the best efficiency. Every single piece will be cleaned immediately after the test is passed. No more extra time for unused infrastructure, no more wasting money.
Automated Smoke Tests	Protecting revenue. Think about a product, which has a lot of potential errors that never be tested. What do we need to do when releasing that product? The answer is making sure it will be tested before the release happens, by a full-time job QA or automated test system. And what happens if the tester misses some important test due to human errors, which cannot be prevented every single time, especially when the task is complex and must be done repeatedly? I can see a severe bug occurring on the production site because of human mistake during the test, causing the server to go offline for at least a few minutes to an hour or possibly a day to fix the issue. The solution to this problem will be an automated test system.