Continuous Delivery

Continuous Integration & Continuous Deployment

Continuous Integration

Continuous integration (CI) revolves around everything code. This includes compiling, unit test, static analysis, dependency vulnerability testing, and storing artifacts. The goal of continuous integration is to automate routine tasks while reducing the time it takes to deliver quality code.

Continuous Deployment

Continuous Deployment (CD) is the process that allows us to automate code deployments. This includes creating infrastructure, provisioning servers, copying files, promoting to production, executing smoke test and performing rollbacks when necessary.

Ci/CD Benefits

- ➔ Less developer time on issues from new developer code
- ➔ Less bugs in production and less time in testing
- ➔ Preventing costly security holes
- ➔ Less human error, faster deployments
- ➔ Less infrastructure costs from unused resources
- ➔ Less time to market
- ➔ Reduced downtime from a deployed-related crash or major bug
- ➔ Automated rollbacks to quickly undo faulty deployments and return production back to a working state.

Summary

Continuous delivery is a concept that reinforces pursuing progress over perfection. It’s a method to increase efficiency and feedback loops while reducing cost and mitigating human error.