

# What is CI/CD

- CI(Continuous Integration) - The practice of merging all developers' working copies to a shared mainline several times a day.
- CD(Continuous Deployment ) - A software engineering approach in which the value is delivered frequently through automated deployments.

In short, CI/CD is the automation of software production. Financial benefits are explained from following slides.

# Avoid Cost

- **Less bugs in production and less time in testing** by catching unit test failures
- **Prevent costly security holes** by detecting security vulnerabilities
- **Less human errors and faster deployments** by creating infrastructure automatically

# Cost Reduction

- **Less time spent on issues from new developer code** by catching compile errors
- **Less cost from unused resources** by automating infrastructure cleanup

# Protect Revenue

- **Reduce downtime** by automating smoke tests
- **Quick undo to return production to working state** by automating rollbacks triggered by a job failure

# Increase Revenue

- **Valuable feature release more quickly** by faster and more frequent deployment productions
- **Less time to market** by deploying to production without manual checks