



CI/CD -
ORGANIZATIONS SAVE
COST AND DELIVER
FAST



CONTINUOUS INTEGRATION

- The practice of merging all developers' working copies to a shared mainline several times a day.
- Everything related to the code fits here, and it all culminates in the ultimate goal of ci: a high quality, deployable artifact!
- Some common ci-related phases might include: compile unit test- static analysis- dependency vulnerability testing store artifact

CONTINUOUS DEPLOYMENT

- A software engineering approach in which the value is delivered frequently through automated deployments.
- Everything related to deploying the artifact autonomously fits here. It's the process of "Moving" the artifact from the shelf to the spotlight without human intervention.
- Some common CD-related phases might include:- Creating and configuring infrastructure - Promoting to production- Smoke Testing (aka Verify)- Rollbacks in case if any failure

BENEFITS OF CI/CD AT THE BUSINESS LEVEL

- Automate Infrastructure Creation - Less human error, Faster deployments -
Avoid Cost
- Catch Unit Test Failures - Less bugs in production and less time in testing -
Avoid Cost
- Automated Smoke Tests - Reduced downtime from a deploy-related crash -
Protect Revenue
- Detect Security Vulnerabilities - Prevent embarrassing or costly security holes -
Avoid Cost

BENEFITS OF CI/CD AT THE BUSINESS LEVEL

- Deploy to Production Without Manual Checks - Less time to market - Increase Revenue
- Faster and More Frequent Production Deployments - New value-generating features released more quickly - Increase Revenue
- Automated Rollback Triggered by Job Failure - Quick undo to return production to working state – Protect Revenue