

CI/CD

CI/CD definition:

- CI/CD is a culture by the mean of the word.
- In software engineering, CI/CD is the combined practices of continuous integration and continuous delivery or continuous deployment.
- CI/CD bridges the gaps between development and operation activities and teams
- Enforcing automation in building, testing and deployment of applications using certain tools integrated with each other

Quality (No worry !!)

- No compromising on quality with CI/CD during releasing software development.
- But you can confidentially say CI/CD improves the software's quality.
- Software gain consistency , faster and more agile.
- More frequent basis.

Facts:

Applying CI/CD leads to:

- Reduce Cost
- Avoid Cost
- Increase Revenue
- Protect Revenue

How That ??? =====>

Reduce Cost:

- CI/CD makes you spend less time on issues from new developer code.
- Less infrastructure costs from unused resources.
(Automating infrastructure cleanup)

Avoid Cost

- Less bugs in production and less time testing.
(Catch Unit Test Failures)
- Prevent embarrassing or costly security holes.
(Detect Security Vulnerabilities)
- Less human error, faster deployments.
(Automating infrastructure creation)

Increase Revenue

- New value-generating features released more quickly.
(Faster and More Frequent Production Deployments)
- Less time to market.
(Deploy to Production Without Manual Checks)

Protect Revenue

- Reduced downtime from a deploy-related crash or major bug.
(Automated Smoke Tests)
- Quick undo to return production to working state.
(Automated Rollback Triggered by Job Failure)