



# CI/CD – A BETTER WAY TO BUILD AND SHIP PRODUCTS TO MARKET

Benefits of CI/CD to achieve build and deploy automation within our organization

# Continuous Integration

The practice of merging all developers' working copies to a shared main line several times a day. It's the process of "Making".

Everything related to the code fits here, and it all culminates in the ultimate goal of CI: a high quality, deployable artifact!

## Benefits

- ✓ **Reduce Cost: Less Developer time on issues from new developer code**
  - ✓ **Avoid Cost: Less bugs in production and less time in testing**

# Continuous Deployment

A software engineering approach in which the value is delivered frequently through automated deployments.

## Benefits

- ✓ **Avoid Cost: Less human error, Faster Deployments**
  - ✓ **Increase Revenue: Less time to Market**
- ✓ **Protect Revenue: Quick undo to return production to working state**
  - ✓ **Less infrastructure costs from unused resources**

# Continuous Delivery

A process or paradigm in which teams produce and release value in short cycles

## Benefits

- ✓ **Protect Revenue:** Reduced downtime from a deploy-related crash or major bug.
- ✓ **Increase Revenue:** New value-generating features released more quickly
  - ✓ **Avoid Cost:** By detecting security Vulnerabilities
  - ✓ **Less time to market**