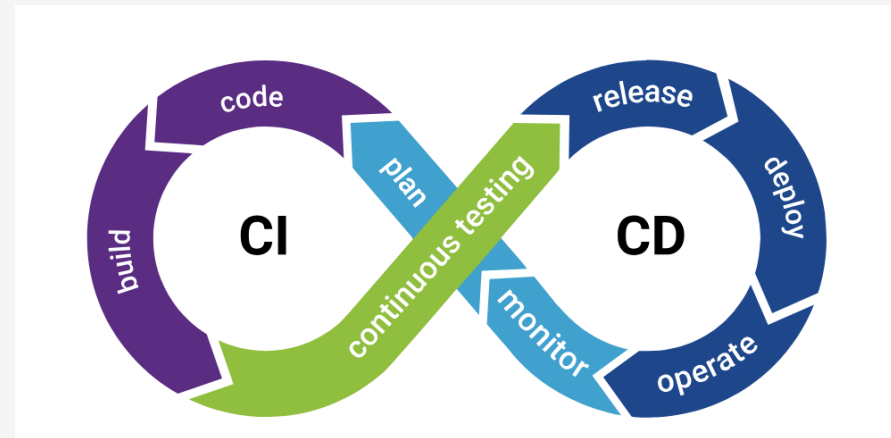


# Benefits of using CI/CD

for automating build, deploy, delivery products

# Why Use CICD?

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## Before CICD

almost stages in software industry require human intervention.

## Apply CICD

can reduce human intervention, human error in stages of software industry

# Continuous Delivery

Continuous Delivery = Continuous Integration + Continuous Deployment

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## **Continuous Delivery:**

- An engineering practice in which teams produce and release value in short cycles.

## **Continuous Integration**

- The practice of merging all developers' working copies to a shared mainline several times a day. It's the process of "Making".
- If has to do with code, it has to do with CI

## **Continuous Deployment**

- A software engineering approach in which the value is delivered frequently through automated deployments. Everything related to deploying the artifact fits here.
- It's the process of "Moving" the artifact from the shelf to the spotlight.

# Benefits of using CI/CD for business

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## **Applying CI/CD will:**

### Reduce Cost:

- Less developer time on issues from new developer code by catching compile errors after merge
- Less infrastructure costs from unused resources by automating infrastructure cleanup

### Avoid Cost:

- Less bugs in production and less time in testing by catching unit test failures
- Prevent embarrassing or costly security holes by detecting security vulnerabilities
- Less human error, Faster deployments by automating infrastructure creation

# Benefits of using CI/CD for business

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## **Applying CI/CD will:**

### Increase Revenue:

- New value-generating features released more quickly by deploying faster and more frequent production
- Less time to market by deploying to production without manual checks

### Protect Revenue:

- Reduced downtime from a deploy-related crash or major bug by automating Smoke Tests
- Quick undo to return production to working state by automating rollback triggered by Job Failure