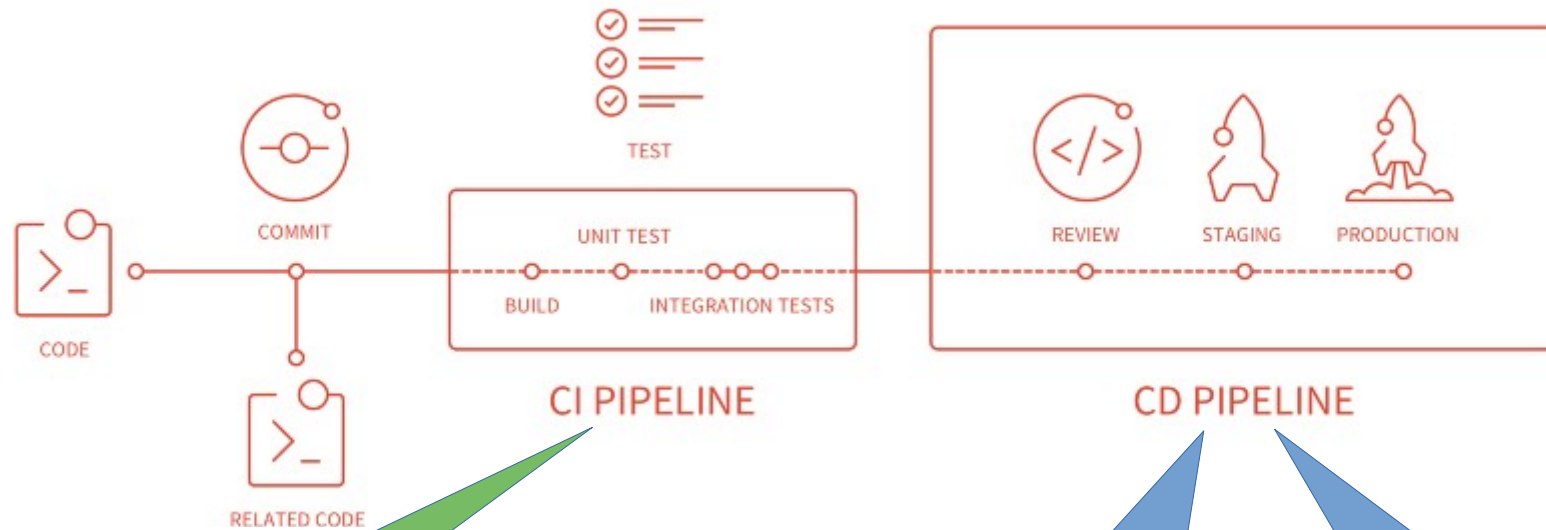




# CI/CD

## Fundamentals and Benefits

# Concepts



## Continuous Integration

New code changes are regularly built, tested and merged to a shared repository

## Continuous Delivery

App changes are automatically bug tested and updated to a repository, ready to be deployed

## Continuous Deployment

Automatically release changes from repository to production

# CI Benefits



If you're going to fail, then fail early!

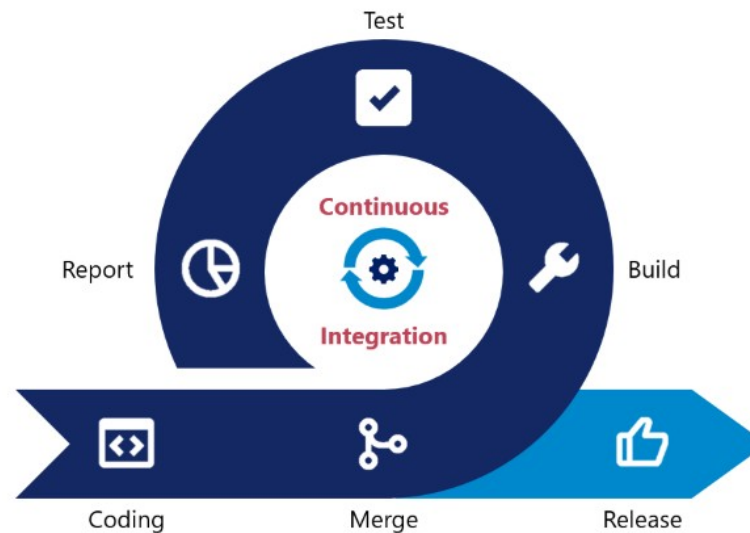
Smaller code changes

Separate software builds from software deployments

Enables Continuous Deployments

Increases confidence in the software

Enables automated testing



# CD Benefits



Deliver software with fewer bugs and lower risk

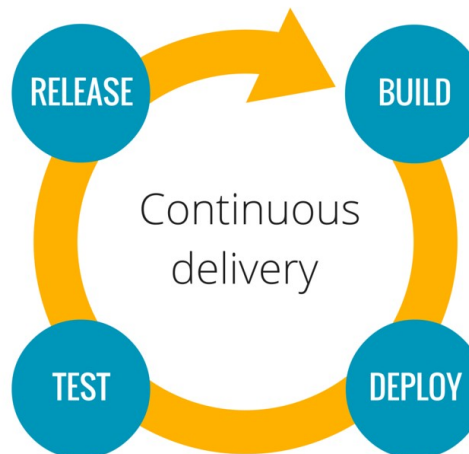
Easy Maintenance and Updates

Stable and highly available environments

Release new features to market more frequently

Faster Release Rate

Faster feedback



# Revenue and Cost Benefits



Frees up developer time that could be spent on product development

Automation increases code quality → ROI increase

Less number of incidents in production

Bugs are found faster & fixes are implemented quickly

Savings in infrastructure provisioning

