



# The Power of CI/CD

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# Continuous Integration (CI)

What is CI?

- CI allows merging of all developers work to a shared version controlled repository multiple times a day.
- Refers to the build and unit testing stages of the software artifact release process
- Committed artifact code triggers automated build and tests

# Continuous Deployment (CD)

## What is CD?

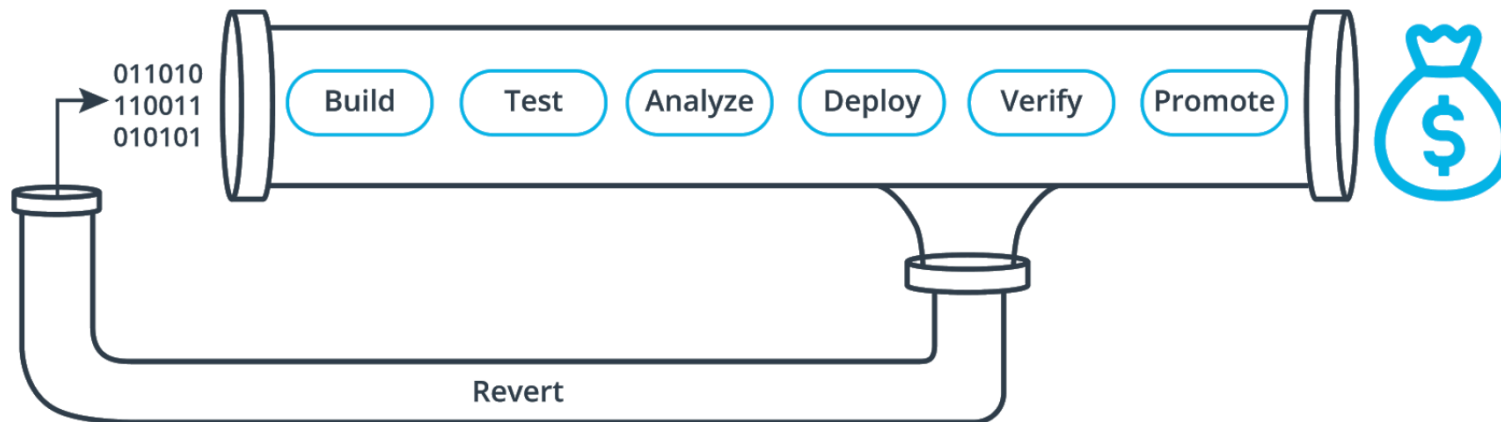
- CD is an engineering practice in which teams produce and release value in short cycles.
- The CD stage automates the software artifact from staging environment to production environment
- It is a practice of automating deployments frequently to gain value

# The CI/CD Pipeline

CI + CD = Continuous Delivery

The implementation of CI + CD results in continuous delivery.

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



# Benefits of CI/CD

Some of the benefits of practicing CI/CD

BENEFIT	VALUE
The creation of Infrastructure is automated which means less human error and faster deployments	Avoid Cost
Less time to market by deploying to production without manual checks	Increase Revenue
Prevent costly security holes and damage customer trust by detecting security vulnerabilities early.	Avoid Cost
Fast Rollback to working production state using automated rollbacks triggered by change failure	Protect Revenue