

## **Outline**

- 1. What is CI/CD
- 2. How CI/CD works
- 3. Why use CI/CD?
- 4. Benefits of CI/CD in our Organization
- 5. Questions & Answers
- 6. Thank you
- 7. Questions & Answers

### What is CI/CD

#### Continuous integration:

(CI) is a development practice that integrates codes into a repository. Each integration is verified by an automated build and text

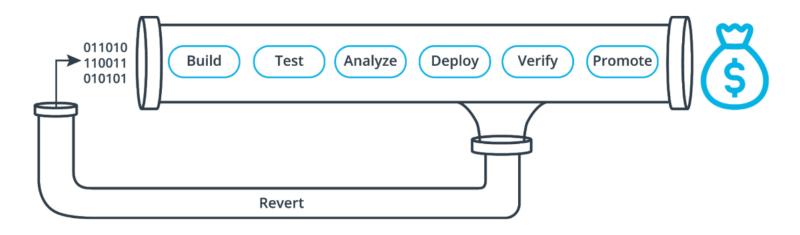
#### **Continuous Delivery:**

(CD) is an extension of CI that aims to reduce development time between writing code and using it in production

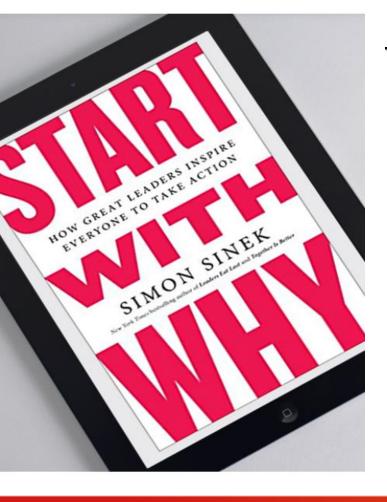


■ LOUIDACK2

#### The CI/CD Pipeline



The Phases of CI/CD Pipeline



#### Why use CI/CD?

Why Use Continuous integration

- 1) Merge code Faster.
- 2) Catch compile errors after merge.
- 3) Reduces code conflicts.

#### Why Use Continuous deployment

- 1) Automate deployment to production and eliminate manual intervention.
- 2) Automated rollbacks in case of failure.
- 3) Deploy to production faster and more frequently.

#### **Benefits of CI/CD in our Organization**



S/N	Technical Benefit	Business Benefit	Comment
1	Catch Compile Errors After Merge	Reduce Cost	Less developer time on issues from new developer code
2	Catch Unit Test Failures	Avoid Cost	Less bugs in production and less time in testing
3	Automate Infrastructure Creation	Avoid Cost	Less human error, Faster deployments
4	Automate Infrastructure Cleanup	Reduce Cost	Less infrastructure costs from unused resources
5	Faster and More Frequent Production Deployments	Increase Revenue	New value-generating features released more quickly
6	Deploy to Production Without Manual Checks	Increase Revenue	Less time to market

# Thank You

# Questions Answers