



# **CONTINUOUS INTEGRATION/DELIVERY**

**CI/CD**

# CI/CD?

- **Continuous Integration (CI)** is the process of integrating code in a repository and building/testing each changes automatically. This happens in the early phase of an application deployment.
- **Continuous Delivery (CD)** is the process of getting all issues, updates, and making the application production deployable. It further deploy code to production in an automates manner.



# WHY CI/CD ?

## Continuous Integration






- Detects bugs/errors as quickly as possible and fresh mind to fix it.
- Reduces integration issues
- Faster development
- Improve compliance: It is a big deal for businesses to make sure it is auditable especially governance and financials
- Happy Developers/Business Team

# WHY CI/CD ?

## Continuous Delivery/Deployment

- Consistent process
- Fewer handoffs
- More deployments
- Confidence in deployment
- Reduce overheads

# BUT WHAT ABOUT BUSINESS VALUE

Technical	Process outcome	Business Impact
Catch Unit test/compile errors	Faster testing/fixes	Reduces Cost/Increases Profit 
Detect Security Vulnerabilities	Reduce compliance issues	Reduces cost in audit/Increases profit 
Automatic clean resources	Reduce manhours/no leftover of unused resources	Reduces infrastructure cost 
Faster and Many deployments	Bigger Market Share/Release features	Increases revenue 
Automatic Rollback	Lesser prod downtime/Customer satisfaction	Increases revenue/reduce costs 
Automatic Deployments	Less Man-hours	Reduces costs 