Benefits of CI/CD

YOUR APPLICATION WITHIN YOUR CLICK

Why you need CI/CD to the businesses?

▶ **Quick Story;** Before I delve into the details of selling CD to your businesses, you should understand what is at stake if we don't. Each year, businesses lose $3 trillion dollars in failed IT projects. These are projects that do not meet business needs for whatever reason—non-completion, failure to release, failure to solve business needs, completed over time or over cost. You've seen it.

Why is That ?

▶ because of dysfunctional IT organizations. calls one common pattern of dysfunction that leads to this level of failure , It's a situation where deadlines are missed, issues arise in production, the business reacts badly, and IT starts padding deadlines and acting out of fear

Increasing Profit with Ci/CD

▶ **How can CI/CD help in increasing a firm's profits efficiently and effectively?**

Every developer commits daily, or even more often, to a shared mainline code repository

Every commit triggers an automated build and test of the codebase If the build or any test fails, it's repaired quickly – often within minutes

Continuous integration works hand-in-hand with Agile methodologies. Team members work on incremental "stories" and the code for these software changes is merged incrementally into the shared software repository multiple times a day.
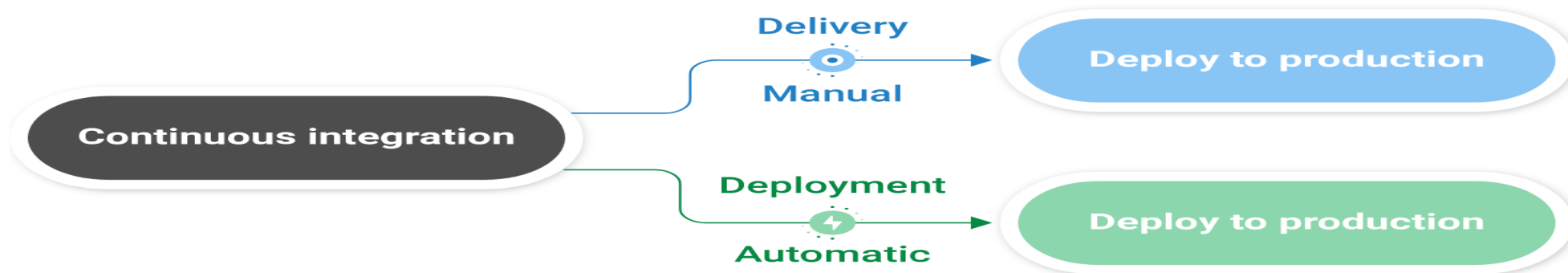
What is CI/CD

▶ **Continuous integration**
The automated building and testing of your application on every new commit.

▶ **Continuous delivery**
A state where your application is always ready to be deployed. A manual step is required to actually deploy the application.

▶ **Continuous deployment**
The automation of building, testing, and deploying. If all tests pass, every new commit will push new code through the entire development pipeline to production with no manual intervention.

Delivery

Manual

Deploy to production

Continuous integration

Deployment

Automatic

Deploy to production

Advantages of CI/CD

- **The Advantages of CI/CD :**

- aster time to market. The primary goal of a CI/CD pipeline is to deliver working software to users quickly and frequently.

- Better code quality

- Maximized creativity

- Faster time to market and risk reduction