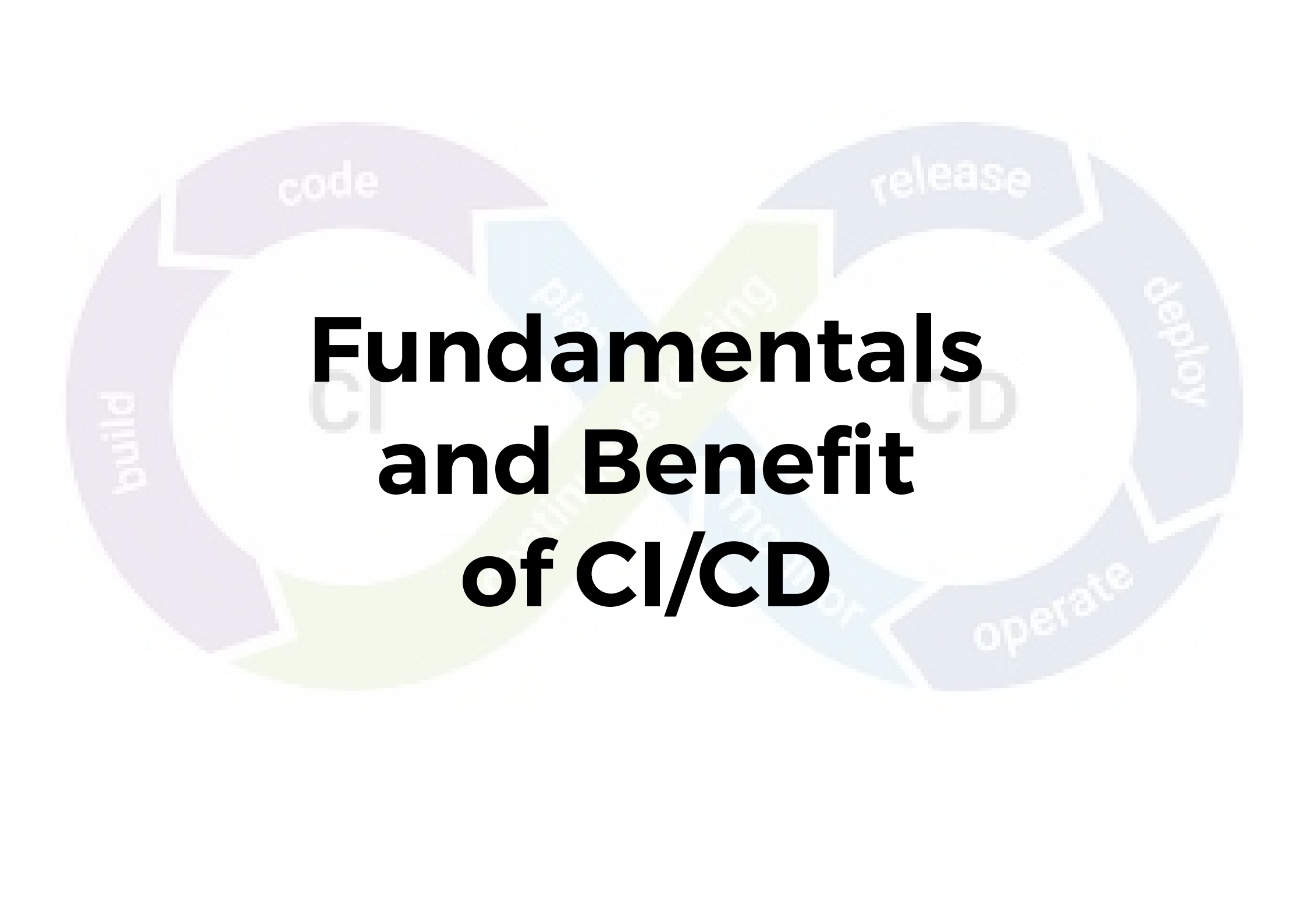

Fundamentals and Benefit of CI/CD

What is CI/CD?

Continuous Integration is method of automating the integration of code changes from various developers into a single software project, while Continuous Delivery (CD) is a software development practice where code changes are automatically prepared for a release to production.

Hence, CI/CD can be defined as a combination of principles, practices, and capabilities that allow for software changes of all kinds to get to users in a quick, efficient, repeatable, and safe manner.

It is the method to frequently deliver apps to customers by introducing automation into the stages of app development.

Benefits of CI/CD

Detect Vulnerabilities in Security:

We can all agree that security is a key concern in this firm. CI/CD immediately identifies any vulnerability in our codes before they are deployed to production, as it even gives it more priority, thereby saving saving money by preventing humiliating and/or expensive security vulnerabilities.

As important as it is to save time and deliver top quality codes, it's equally as important to save cost and increase revenue.

Benefits of CI/CD

Automated Rollback Triggered by Job Failure:
There are occasions when a code will include problems after it has been deployed (put into use).
Therefore, attempting to identify the error's cause can take minutes, hours, days, or even weeks.
However, with CI/CD, there is a rapid way to return to the code's prior working state, protecting revenue and saving time.

Benefits of CI/CD

Codes Get Deployed to Production Faster:
Automating the integration and deployment of codes makes it possible to deploy code to the production state considerably, more quickly than with human checks. As a result, the development and operations teams spend less time reviewing and rechecking the code's quality, which boosts productivity and saves time, thereby boosting revenue.