



# What is CI/CD ?

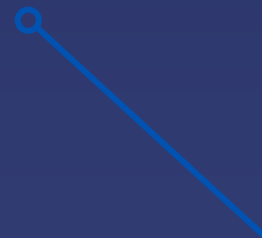
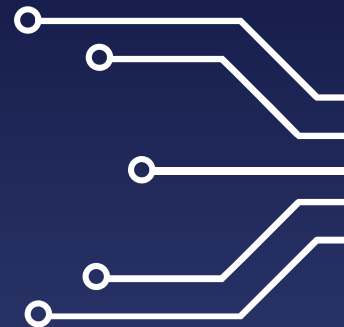
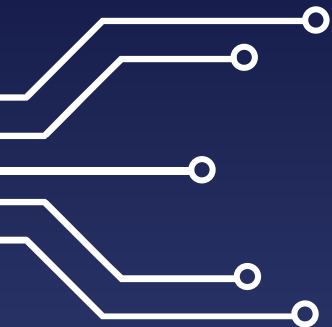
And how it leads business to best performance !

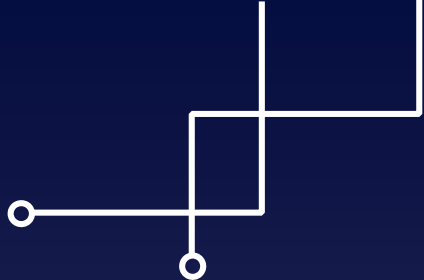



# What 's Continuous Integration



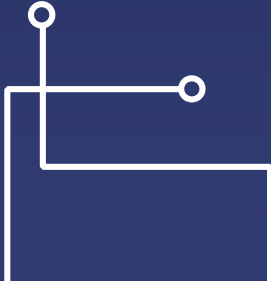


**Continuous integration** is a practice that encourages developers to integrate their code into a main branch of a shared repository early and often.



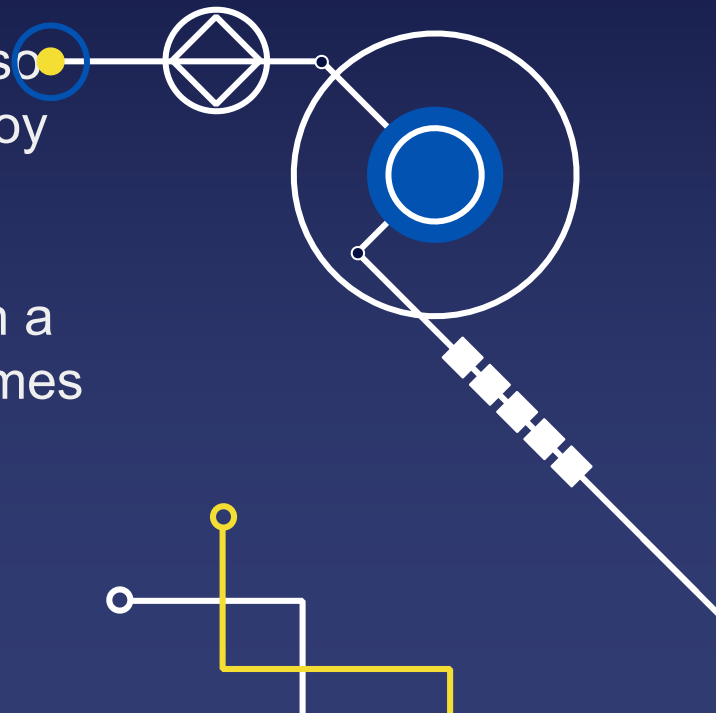


Instead of building out features in isolation and integrating them at the end of a development cycle, code is integrated with the shared repository by each developer multiple times throughout the day.

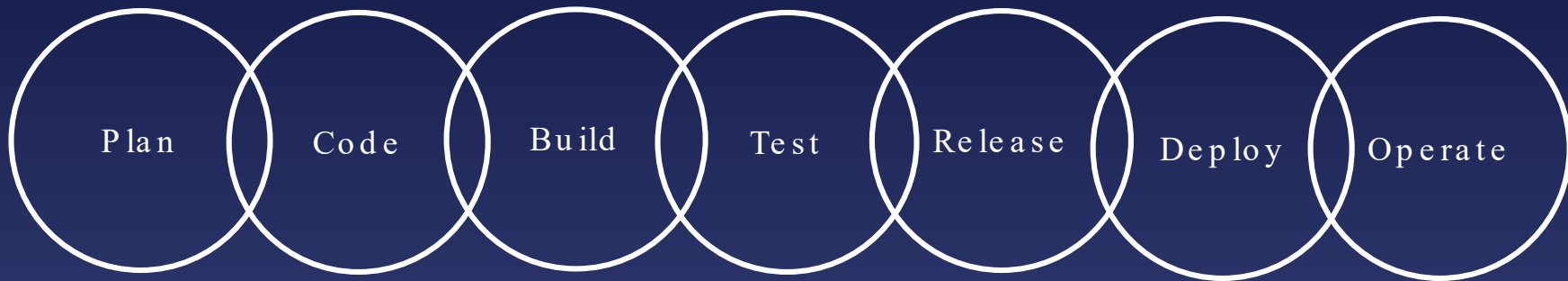


# What 's Continuous Delivery

- **Continuous delivery** is an extension of continuous integration. It focuses on automating the software delivery process so that teams can easily and confidently deploy their code to production at any time.
- By ensuring that the codebase is always in a deployable state, releasing software becomes an unremarkable event, without any complicated rituals.



# CI/CD Pipeline

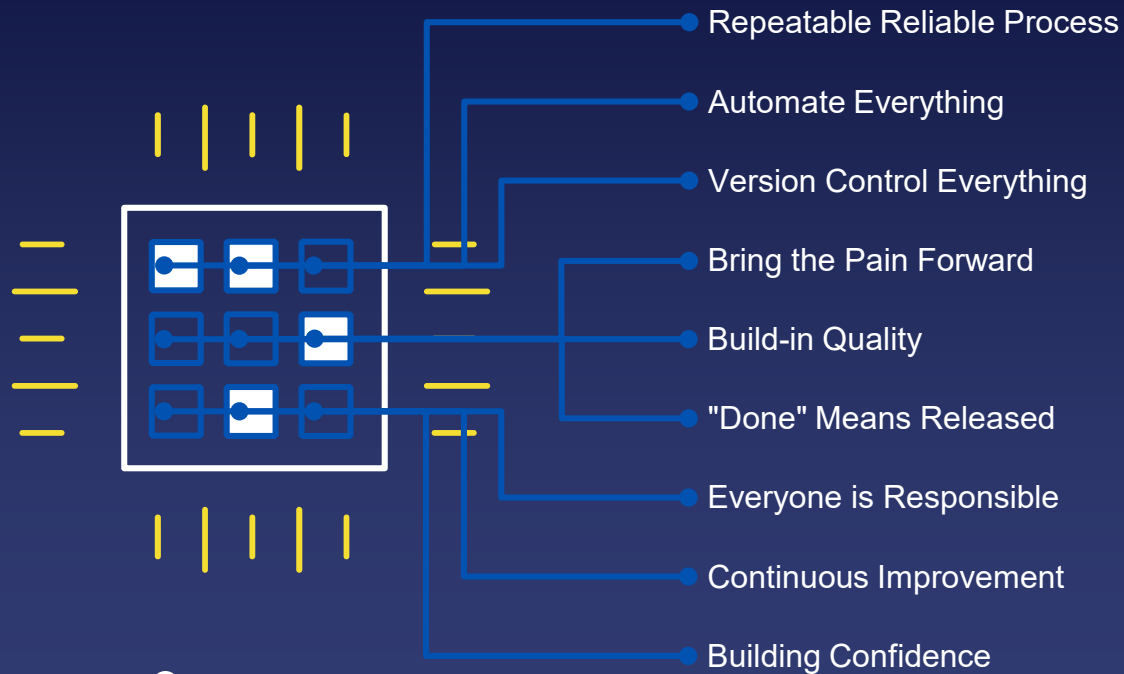


Continuous Integration

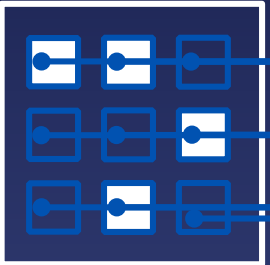
Continuous Delivery



# Principles of CI/CD



# Benefits of CI/CD

- 
- Catch Compile Errors After Merge • Less developer time
  - Catch Unit Test Failures • Less bugs in production
  - Detect Security Vulnerabilities • Prevent security holes
  - Automate Infrastructure Creation • Less human error
  - Automate Infrastructure Cleanup • Less infrastructure costs
  - Faster and More Frequent Production Deployments • Features released quickly
  - Deploy to Production Without Manual Checks • Less time to market
  - Automated Smoke Tests • Reduced downtime
  - Automated Rollback Triggered by Job Failure • Quick undo to return production to working state



# Thank You

