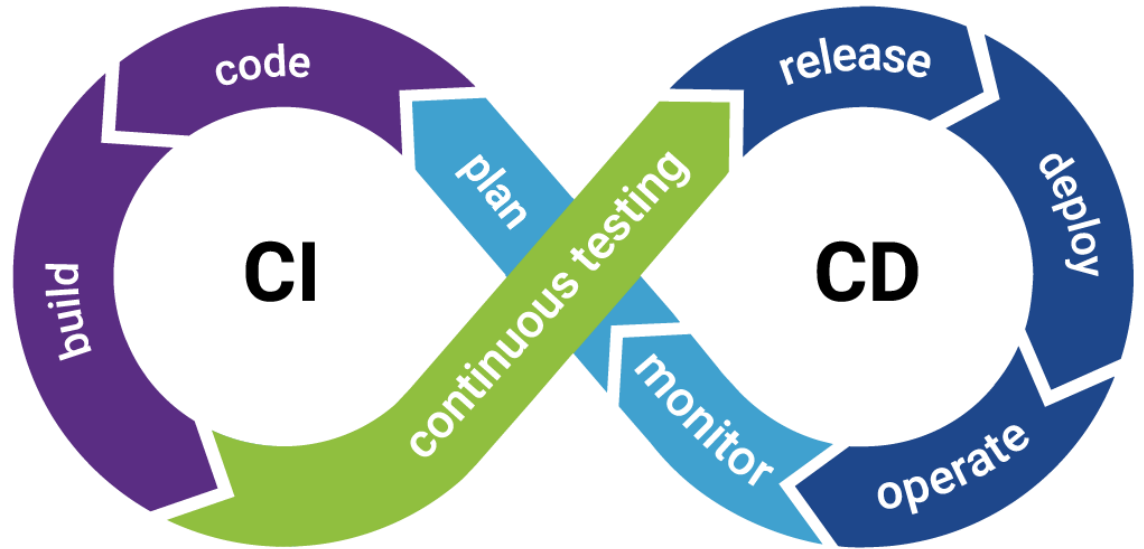# CI/CD to Automate Build, Test and Deployment of Udapeople Product
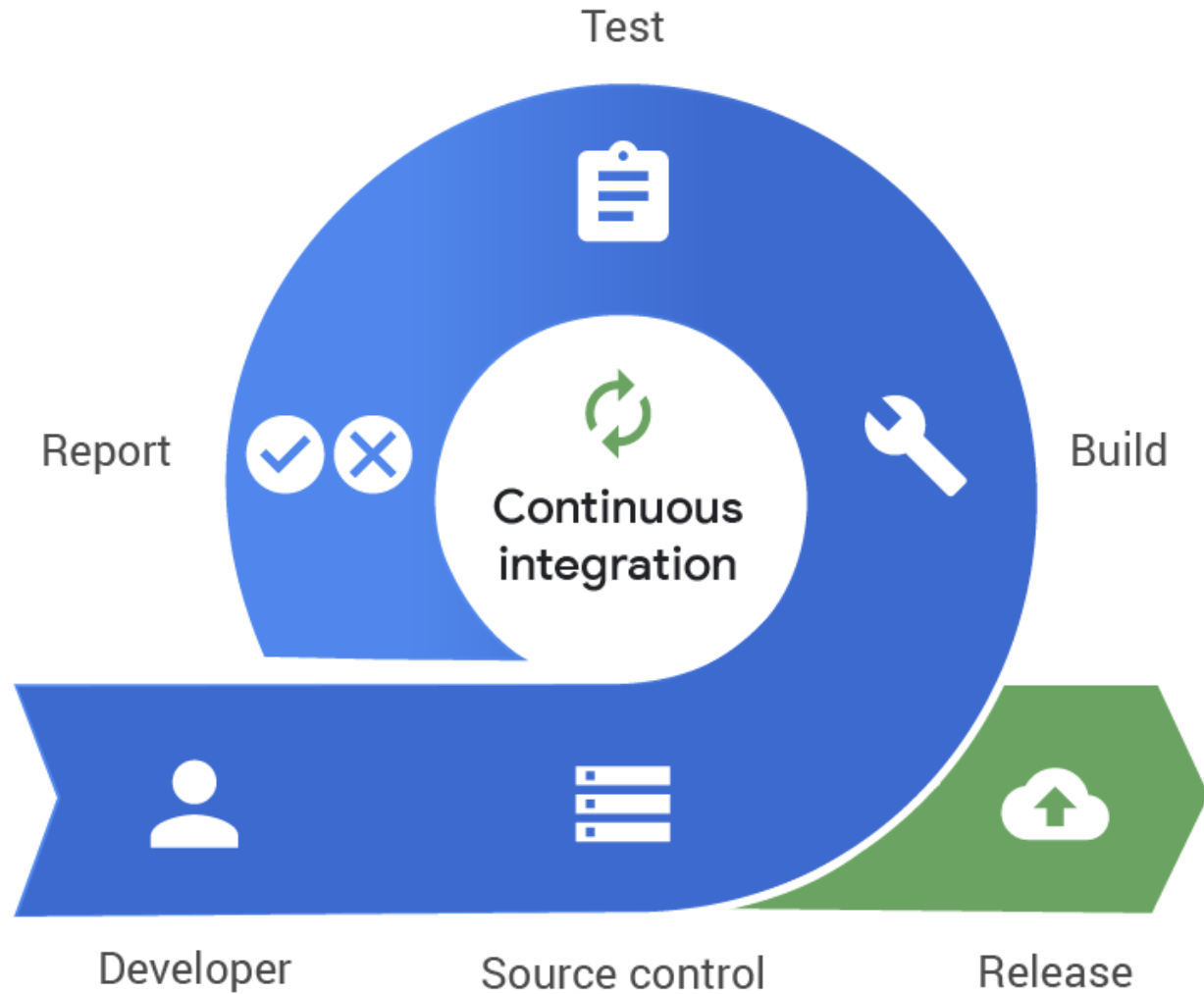
Cyril

What is Continuous Integration/Continuous Deployment?

- Involves introducing automation in the process of building, testing, deploying and releasing of software
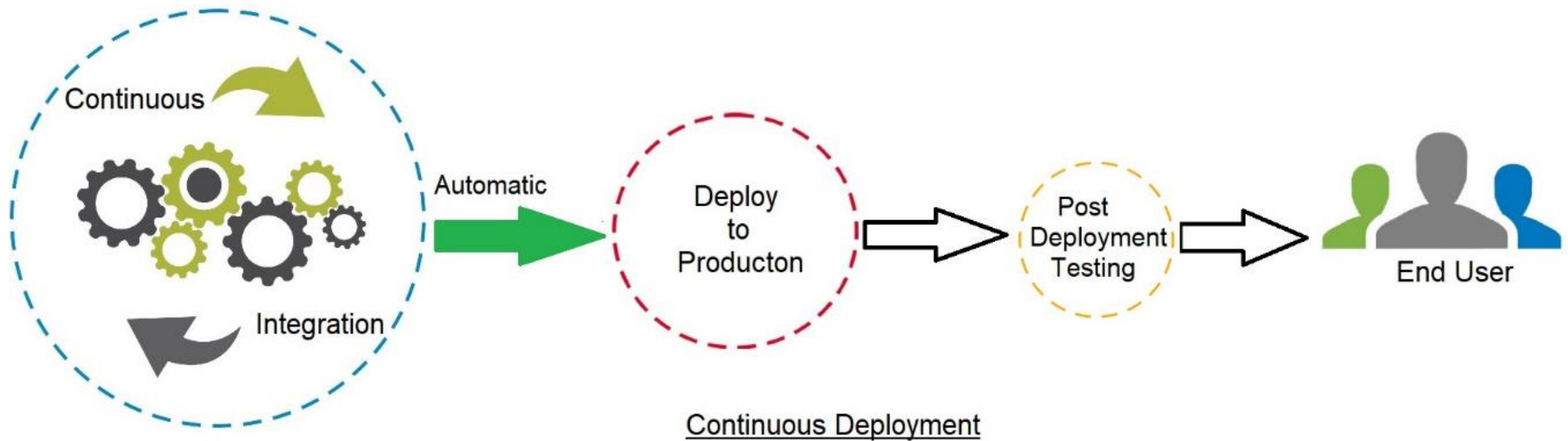
Continuous Integration

- ensures that code changes are regularly tested and released after merging them into a shared repository (version control system) to ensure their stability

Continuous Deployment

- ensures quick and smooth delivery of developer changes, where they can then be deployed into a live production environment.

Continuous Deployment

Benefits to the business

- Reduce Costs and boost profits
  - Eliminate many of the costs involved in testing, deploying or releasing software
- Bring products to market faster
  - Faster generation of revenue
- Build a more reliable and more secure product
  - Improve brand reputation and customer loyalty
- Boost DevOps efficiency
- Respond to customer needs as they evolve
  - Maintain revenue streams

References

- https://www.semanticscholar.org/paper/Continuous-Delivery%3A-Huge-Benefits%2C-but-Challenges-Chen/45159ec8403fa87ebde2d695819b202c52e11e04
- https://cacarer.com/ci-cd-continuous-integration-continuous-delivery-and-continuous-deployment/