

A large red speech bubble with a white outline, pointing downwards, is centered on the slide. Inside the bubble, the text 'CI/CD' is written in a large, white, sans-serif font. Below it, the phrase 'The power of automation' is written in a smaller, white, sans-serif font. The background of the slide is white with faint, light gray concentric circles and dashed lines radiating from the center.

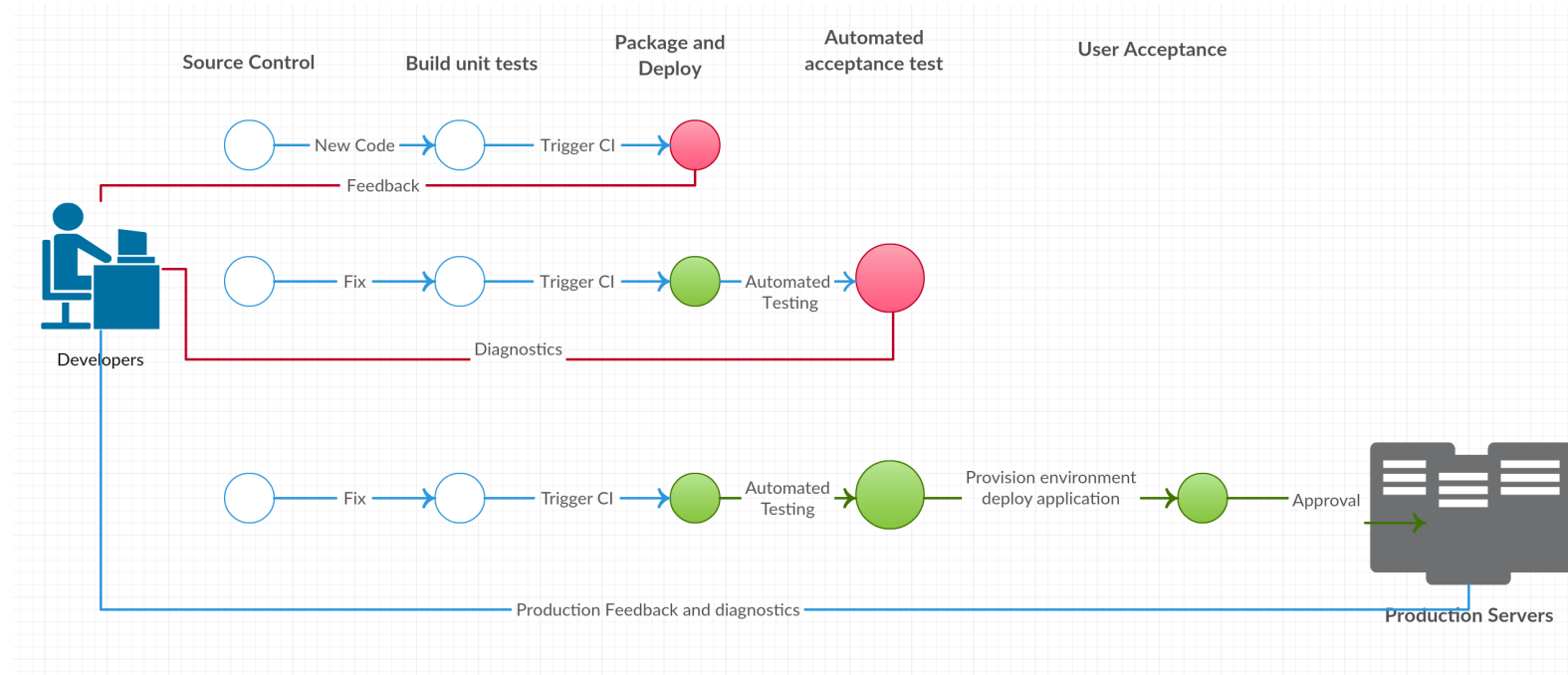
CI/CD

The power of automation

Continuous Integration

- **CI is the process/practice of automating the code integration throw multiple contributors into a software project/feature.**
- Dev team members merge the code into same repository
- Builds and TDDs runs, and the code correctness checked before integration.
- Now days CI is an essential aspect of development and high-performance software teams.

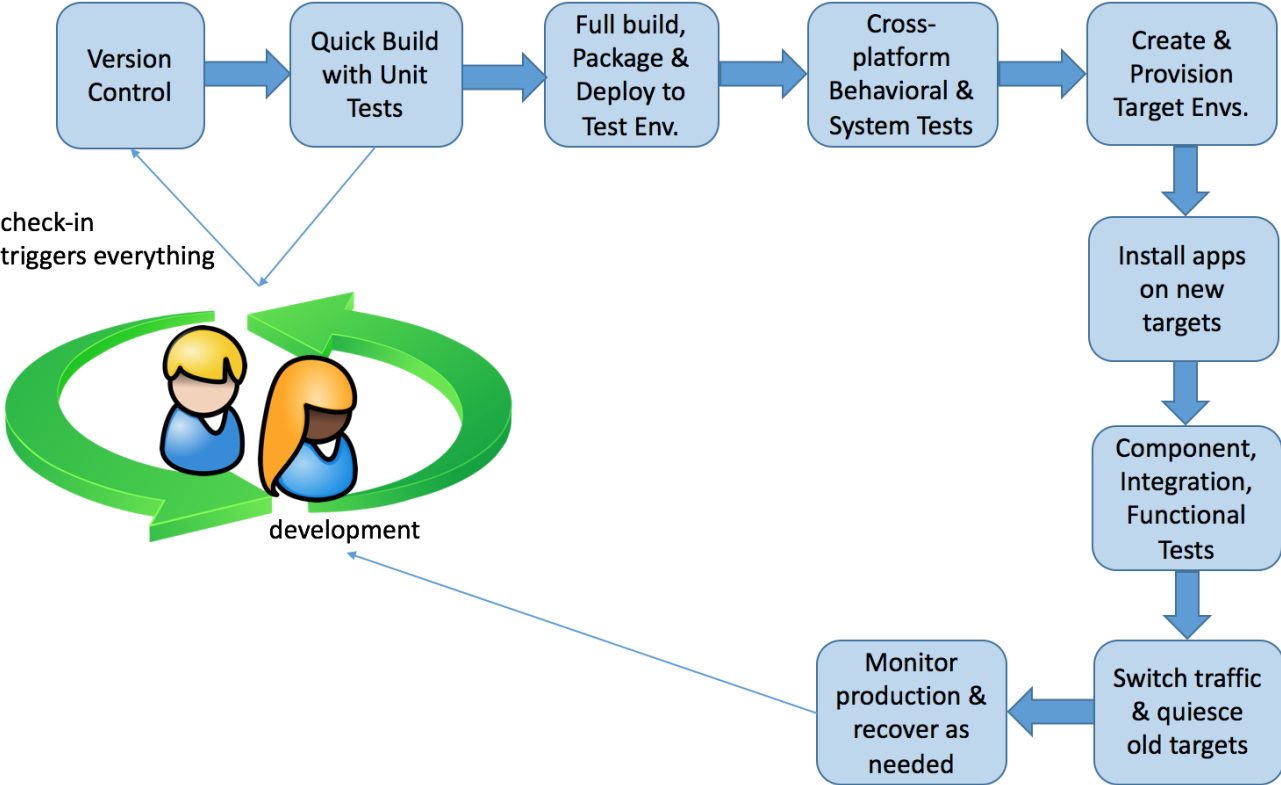
CI Phases



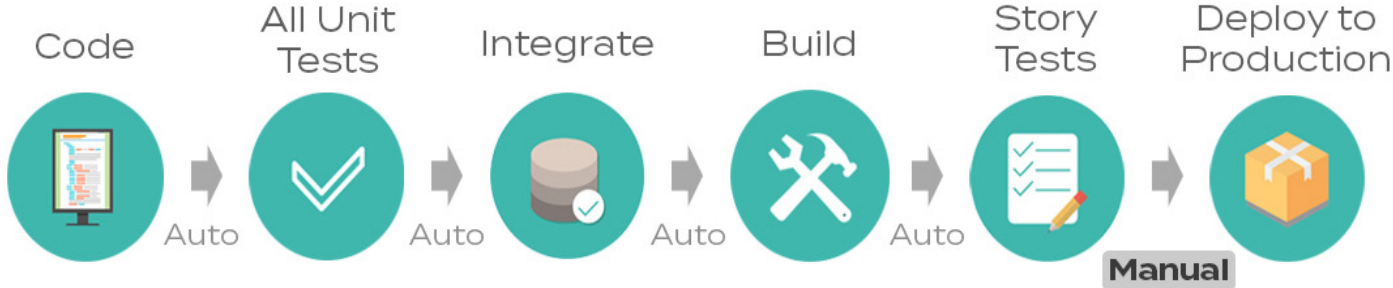
Continuous Delivery

- The term CI stands for “Continuous Delivery”
- CD is the process/practice to deliver and produce software features in short cycles allowing the software to be reliably released anytime.
- CD allowing the incremental updates into production which reduce unexpected performance problems, risk, time and cost.

CD Phases



Continuous Delivery



Business Benefits of CI/CD

- Integrating CI & CD provides the optimum solution for both integration and delivery. By providing high quality deployable artifacts
- Accelerated Release Cycles
- With ci/cd the development cycle is now visualized from commit to production.
- Production releasing could be done multiple times after testing without considering compare the quality parameters.

Business Benefits of CI/CD (cont')

- **Detection & Isolation**

- The small code batches is easier to be reviewed and rectified
- Breakdowns and other critical issues can be limited by isolating bugs and vulnerabilities before damage spreading.

- **Cost Deduction**

- CI/CD is the perfect solution to shorten time to develop new project and market new feature and that meet the time to market goals of any successful entity.

Conclusion

- Based on AWS documentations
 - Continuous integration and continuous delivery provide an ideal scenario for your organization's application teams. Your developers simply push code to a repository and the code will be integrated, tested, deployed, tested again, merged with infrastructure, go through security and quality reviews, and be ready to deploy with extremely high confidence.
 - When CI/CD is used, code quality is improved, and software updates are delivered quickly and with high confidence