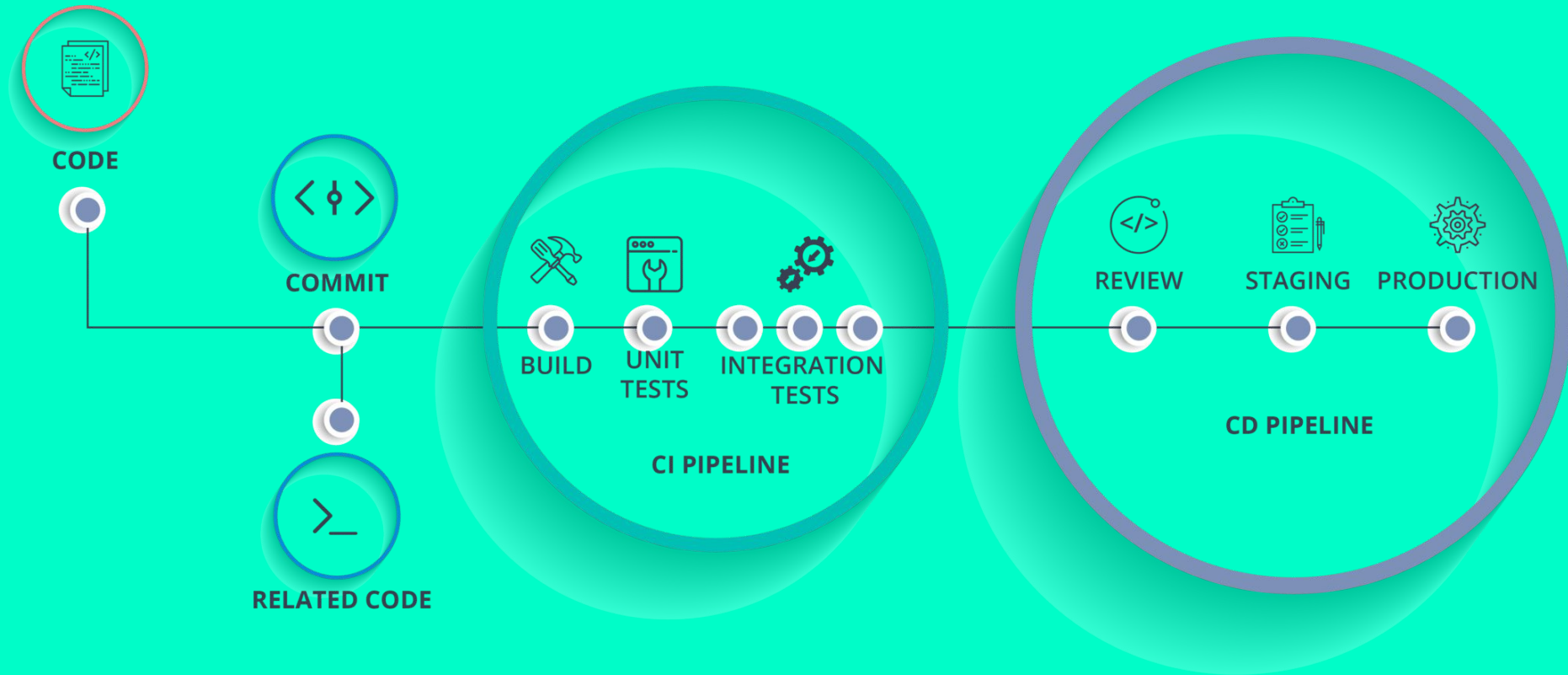


FUNDAMENTALS OF CI/CD

WHAT IS CI/CD?

CI stands for Continuous Integration and CD stands for Continuous Delivery and Continuous Deployment. You can think of it as a process which is similar to a software development lifecycle.

Now let us see how does it look like.



CI

Benefits of CI

- Compile
- Unit Test
- Static Analysis
- Dependency vulnerability testing
- Store artifact

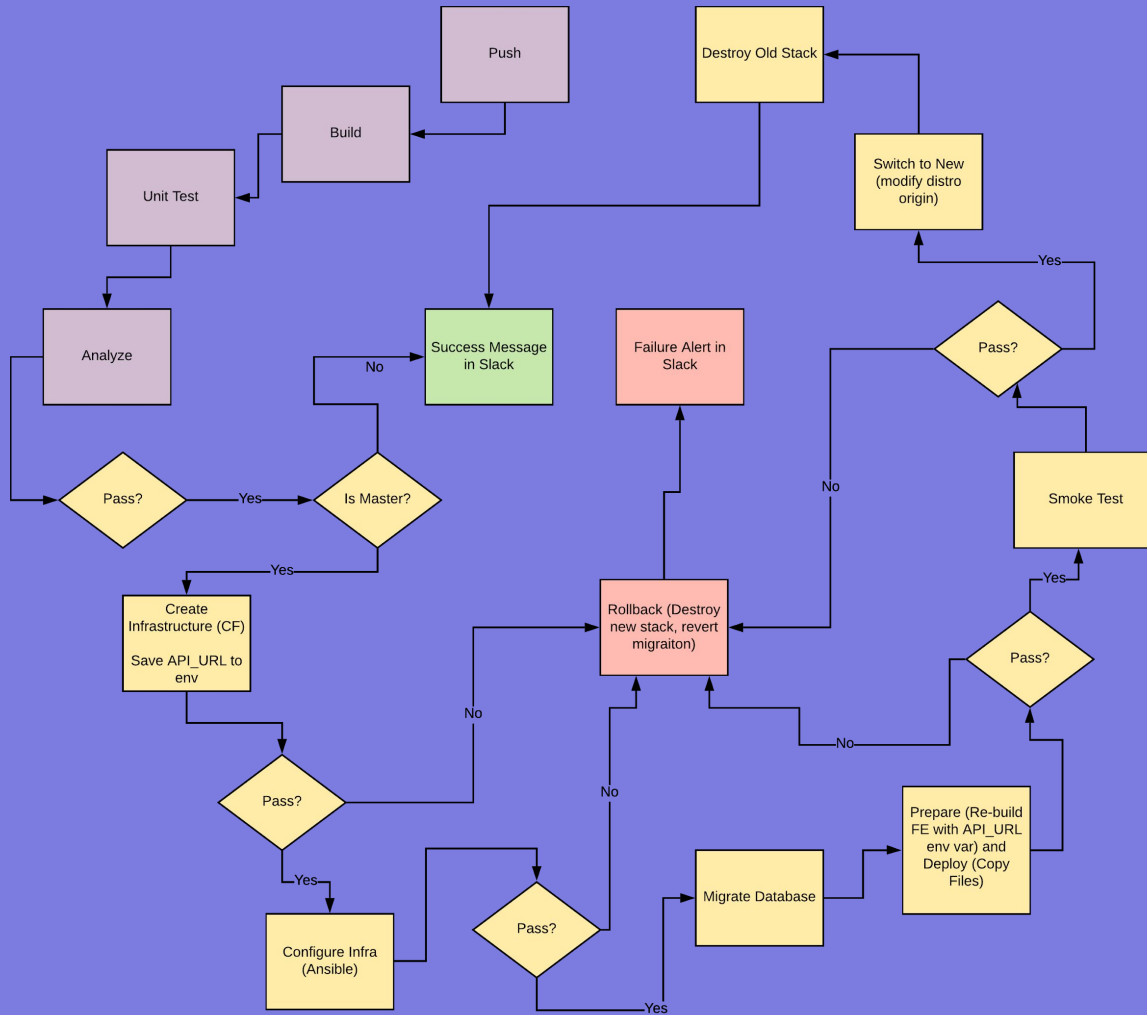


Benefits of CD

- Creating infrastructure
- Provisioning servers
- Copying files
- Promoting to production
- Smoke Testing (aka Verify)
- Rollbacks

Core reasons for implementing CI/CD in our Company

- Decoupled and robust Pipeline: Each step in CI/CD is a separate task and the pipeline will not let bad/Fail code Go out in production without tests passing
- Repeatable: It is made for Collaborative environment where multiple dev's can work on multiple features without Thinking about the Interlocking dependencies and How will those changes get Deployed
- Fail and Recover: One of the Core features is the ability to Rollback to a previous version of your code if your Smoke tests fail
- Tracking: you get the benefit of Tracking which developer pushed/deployed which code on production for the sake of visibility and transparency



THANK YOU

HARSHIT LUTHRA

