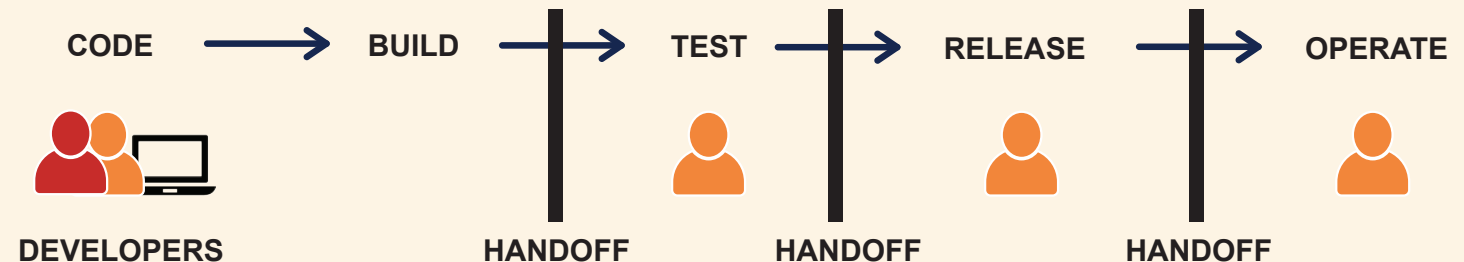


Continuous Integration & Continuous Delivery

⚙️ Current Deployment Process



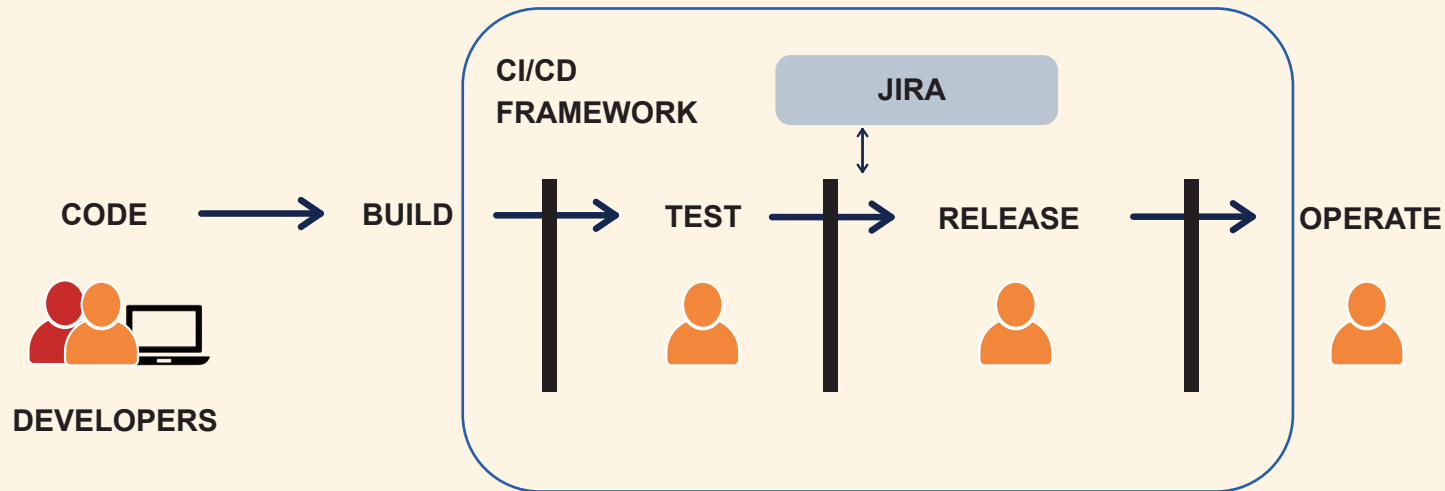
AS-IS PROCESS



⚙️ Challenges

- With the traditional deployment approach the turnaround time required between various environments is extended. Example: after QA sign-off a deployment needs to be scheduled for UAT
- Due to lengthy regression test cycles, regimented quarterly release cycles are available, which leads to significant waiting time
- Monitoring/maintaining multiple environments with up-to-date code
- Difficulty in establishing coordination between development, testing, and operations teams
Example: missed status update in Jira but code is deployed and available for testing
- Resource availability/dependency at a particular phase of the project lifecycle

FUTURE PROCESS



💡 Solution Overview

- CI/CD framework is used to automate entire deployment journey
- Developers and testers work simultaneously, and Jira acts as source of truth
- Testers write Cucumber scripts, and tag with Jira ticket number and push the code to GitHub
- Developer provides solution to the problem in Appian and pushes the code to Test environment using Appian's 'Compare and Deploy' feature
- Jenkins takes over after this point, connecting all systems and triggering next activity in workflow. Outcomes are monitored and updates shown in Jira

Benefits

- The model **supports BDD(Behaviour Driven Development) approach**. Both testing and development team can start **working together**
- Jira Integration - helps in **keeping track** of work, sends real time notifications and alerts
- Highly Flexible - **pipeline can be customize based on customer's need**
- **Automatically triggers DevOps pipeline** once developer integrated the code on test environment
- CI/CD framework provides **Graphical representation** of cucumber test cases
- Capable of running **full regression** suite before production deployment
- Release can contain **multiple builds** e.g. database scripts and customization files
- The model **leverages Appian's Compare and Deploy** utility for continuous integration
- Solution **leverages Appian's Programmatic Deployment API** rather than Automated Deployment Manager plugin(soon to be deprecated)

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