

Pipeline Operation Details

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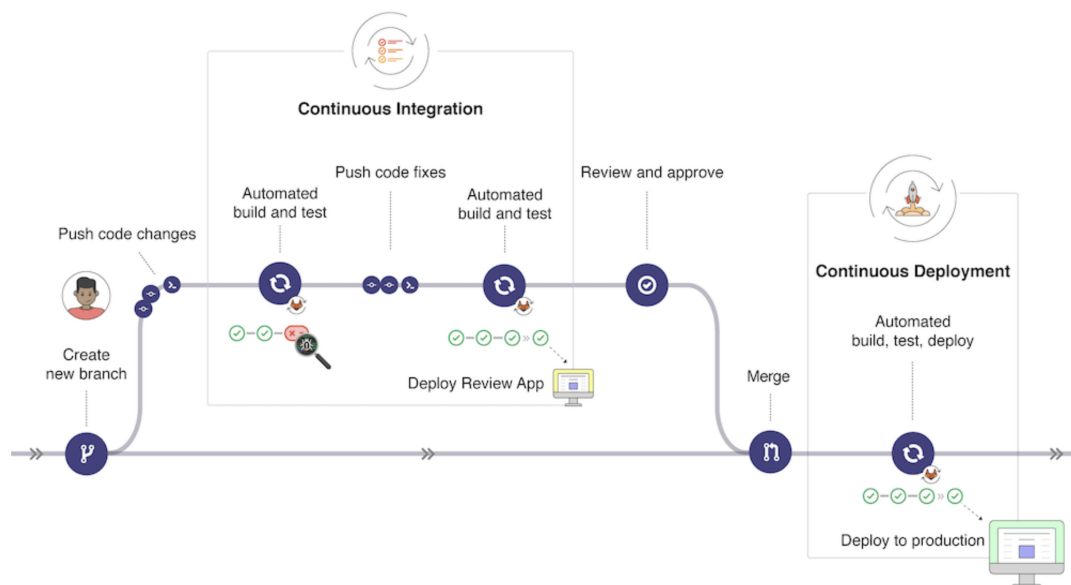
Contents:

[Workflow](#)

[Identifying Issues](#)

Workflow

The pipeline would tie into this workflow:



Example CI Pipeline workflow for GitLab, provided via course slides.

Our CI pipeline would correspond to the diagram above; on pushed code changes, the CI phase would first automate a build and run embedded tests.

GitHub specifically, the pipeline would run as an automated GitHub workflow which is triggered on a push to the git repository remote at the corresponding GitHub URL.

Then, based on the embedded testing, we can push potential code fixes until all the build and all embedded testing passes.

Lastly, the commit is ready to be reviewed, approved, and then merged.

Identifying Issues

Issues the pipeline would identify:

- This depends largely on the embedded testing discussed in document **L05 5.3** **EVI 1**. The pipeline, as it is planned now, would identify issues with: compilation, build, scheduling unit, formatting, coverage.
- Furthermore, it would deliver linting reports and code metrics which would help improve the maintainability of the codebase.