

## Pipeline As Code

Pipeline as code is a practice of defining deployment pipelines through source code, such as Git. Pipeline as code is part of a larger “as code” movement that includes infrastructure as code.

A pipeline as code file specifies the stages, jobs, and actions for a pipeline to perform. Because the file is versioned, changes in pipeline code can be tested in branches with the corresponding application release.

The pipeline as code model of creating continuous integration pipelines is an industry best practice, but deployment pipelines used to be created very differently.

Pipeline as code also has operational and practical benefits:

1. CI pipelines and application code are stored in the same source repository. All the information teams need is located in the same place.
2. Developers can make changes without additional permissions and can work in the tools they're already using.
3. Teams can collaborate more efficiently. Keeping information accessible means teams can collaborate and then act on their decisions.
4. Pipeline changes go through a code review process, avoiding any break in the pipeline integration.
5. Deployment pipelines are in a version control system independent of continuous integration tools. Pipelines can be restored if the continuous integration system goes down. If a team wants to switch CI tools later on, pipelines can be moved into a new system.