**Summary**

Up to this stage, we have practiced the packaging of an application using Docker and its deployment to a Kubernetes cluster using kubectl commands. As well, we have explored the simplified developer experience of application release with Cloud Foundry. However, in both cases, a user has to manually trigger and complete all the operations. This is not sustainable if tens and hundreds of releases are performed within a day. Automation of the release process is fundamental!

In the case of a PaaS offering, the release of a new feature is managed by the provider. For example, Cloud Foundry monitors the repository with the source code, and when a new commit is identified, the user can easily deploy the latest changes with a click of a button. On the other side, releasing an application to a Kubernetes cluster consists of a series of manually typed docker and kubectl commands. At this stage, this approach has no automation integrated.

In this lesson, we will not cover how a PaaS automates the release process, since this is already solutionized by the 3rd party providers. Instead, we will focus on building a delivery pipeline to automate the deployment to Kubernetes using cloud-native tooling.