# Continuous integration with GitHub Actions, Gitlab pipelines and ci.inria.fr

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# Tentative for a map of continuous integration platforms

### **GitHub Actions**

(launched on 16 October 2018)

- A platform for GitHub projects, providing <u>GitHub-hosted runners</u>
   for Linux, MacOS and Windows.
- File-based workflow specification:

.github/workflows/\*.yml.

A command-line tool, act is available for running workflows locally (or from other continuous integration platforms):

## **Gitlab Pipelines**

(introduced in Gitlab 8.8.0, on 2016-05-22)

- Continuous integration system integrated in Gitlab. gitlab.inria.fr provides shared docker runners, ci.inria.fr can host user-maintained VMs, and self-hosted gitlab runners can be registered.
- File-based workflow specification: .gitlab.yml
   .A command-line
  - tool, gitlab-ci-local is available for running

# ci.inria.fr

- A cloud of virtual machines dedicated for continuous integration:
   VMs are created and maintained by the users.
   Linux, Windows and
   MacOS VMs are supported, but MacOS VMs are quite fragile for the moment (but we are working on it!).
- Provides yet another continuous integration system, Jenkins, and a part of it can be configured by a file-based workflow specification: