

Continuous Integration with GitLab

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Automatic execution at (nearly) each commit

- for tests
- for distribution/package generation
- for documentation generation
- for website generation

Various CI platforms

travis

- independant software
 - works with svn/git/...
 - need configuration
- travis.org linked with github
 - easy config in this case

pages extension of gitlab

- linked to gitlab
- config integrated with gitlab

travis

- commit results in (other) branch
- display all kind of results
 - website
 - stats/evolution of tests results
 - support for CTest and other test frameworks
 - ...

pages

- initially dedicated to website management
- a sub-directory will be published 'as-is' on a website
- mail/notification if the build fails

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A config file

- by default `/.gitlab-ci.yml`
- various info :
 - docker image used to build
 - commands to run
 - directory to publish
 - branches to track

Builder(s)

- machines used to run build
- on `gricad-gitlab`, one global builder
 - one can setup builder per group or per project

Wich docker image ?

- avoid the default image (can depends on the builder used)
- for now, any image in docker repo can be used
- some available images I used :
 - vdanjean/web-org : Make, emacs + org-mode, etc.
 - for basic static website
 - monachus/hugo : Hugo software (more later)
 - for more complex static website
 - vdanjean/autotools : autotools, C++ compilers, L^AT_EX, etc.
 - for C/C++ software build and tests

URLs

- `https://'group'.gricad-pages.univ-grenoble-alpes.fr/project`
- no support (yet) for subgroup in gitlab
 - bug opened for a long time...
- gricad disabled the possibility to publish in other domains
- projects with `'group'.gricad-pages.univ-grenoble-alpes.fr` name in group `'group'` will be published under `https://'group'.gricad-pages.univ-grenoble-alpes.fr/`

Simple static website

a plain org-mode file as sources

- only one HTML page generated
 - (multi pages with more complex config)
- enough for most teaching websites

What to rebuild

- should PDF of TP rebuild at each commit ?
- if not, where/how to commit PDF ?
- if yes, how to recover the (old) state of the website ?

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Goal : setup a minimal website with Gitlab-pages

- org-mode based (otherwise Arnaud will expell me)
- Basic example site with read-the-doc style

<https://gricad-gitlab.univ-grenoble-alpes.fr/danjeanv/basic-org-website.git>

- multipage website based on Hugo
<https://du-isn.gricad-pages.univ-grenoble-alpes.fr/>