

Continuous Integration

Quality at Speed" is the new norm in software development

More info forthcoming

- <https://jenkins.coeus.ca/job/tiki/> builds master, sends mail upon breakage, and calculates test coverage.
- <https://gitlab.com/tikiwiki/tiki/pipelines> works, gitlab seems to have fixed their Docker cache issue. It now works on both master and 19.x branch. When it breaks it seems to be on real bugs...
- <http://sonarqube.coeus.ca/dashboard?id=tiki> has useful output, and is connected to test coverage.

See also: <https://sourceforge.net/p/tikiwiki/code/HEAD/tree/trunk/.gitlab-ci.yml>

http://en.wikipedia.org/wiki/Continuous_integration

Tiki releases every 6 months. However, the next release should ideally be "releasable at any time". Also, actual releases should be very easy (goal: 30 minutes for the technical part).

To get closer to these goals, the ideal would be community Continuous Integration server.

There are [daily builds](#) but if something breaks, there is no alert system to report the issue.

Wishlist for Tiki community

Pre-Dogfood Server

For humans to be able to see yesterday's data with tomorrow's code

- [Pre-Dogfood Server](#)

Profiles demo server

- Having a test server with main [profiles](#) applied regularly, for testing/demo.

Continuous build

For the daily pre-release zip file to be as close as possible to the final one

- Run the existing [scripts we use at release time](#)
- Automatic commits: we could register a "tikiwiki" user at Sourceforge.
 - update of changelog.txt (maybe once a week?)

Continuous Testing Server

Machines testing code, according to a series of tests

- Run all tests
 - Check PHP & Smarty Syntax, etc.
 - Check that all JavaScript can be safely minified with [JSLint](#)
 - Detect closing `?>` tags from [DevTips](#)
- Run the security tests regularly (monthly?) and report to Security Team about new potentially risky files
- Ideas from [How to improve the release process](#)

- `php doc/devtools/translate.php englishupdate lag=10-audit --email=me@example.org` to report if anyone breaks strings over the last 10 days
- etc

Please see [Continuous Testing Server](#)

Notes

Database Compare

In order to run the script `doc/devtools/check_schema_upgrade.php` which will compare your current database with what it should be you need to install DBDiff with this command:

```
. php temp/composer.phar require "dbdiff/dbdiff:@dev"
```

Related links

- <https://trunkbaseddevelopment.com/>
- <https://continuousdelivery.com/>
- PHPCI is a free and open source continuous integration tool specifically designed for PHP.
 - <https://www.ohloh.net/p/phpci>
 - <https://www.phptesting.org/hosted-phpci>
- <http://erichogue.ca/2011/05/php/continuous-integration-in-php/>
- <http://docs.codehaus.org/display/SONAR/PHP+Plugin>
- https://github.com/changi67/Tiki_CodeSniffer
- <https://www.ohloh.net/p/xinc-continuous-integration-for-php>
- <http://confluence.public.thoughtworks.org/display/CC/CI+Feature+Matrix>
- <https://github.com/wimg/PHPCompatibility>
- <http://sourceforge.net/blog/how-to-use-webhooks-for-git-mercurial-and-svn-repositories/>
- <https://medium.com/linagora-engineering/dockerized-ci-of-linagoras-james-team-b01bd34a2641>
- <https://github.com/phpstan/phpstan>
- https://github.com/squizlabs/PHP_CodeSniffer

Related projects

CDash and CMake

GoCD

Buildbot

Jenkins

- <http://jenkins-php.org>
- [Jenkins XMPP](#)

PHPCI

CruiseControl (Java)

Travis CI

Strider

Integrity

<http://integrity.github.io>

Xinc

Apache Gump

GitLab Continuous Integration & Deployment

<https://about.gitlab.com/features/gitlab-ci-cd/>

<https://docs.gitlab.com/ee/ci/pipelines.html>

- That's why we'll be starting right away by bringing Gemnasium security checks to GitLab CI/CD. GitLab already supports security testing for JavaScript, Python and Ruby. The next version, GitLab 10.5, will include an implementation of Gemnasium, which will improve significantly the dependencies check for these languages. We expect to have coverage for PHP and Java in 10.6 (to be released on March 22).

Alias

- [Continuous Integration and Continuous Delivery](#)
- [CI/CD](#)