

MediaWiki Farm Extension

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Presentation and context

- MediaWikiFarm is a MediaWiki extension created for Wiki Valley french company.
- MediaWikiFarm will be released soon in some Git repository under GPL 3.0 licence
- Already drafted on mw.org at
- <https://www.mediawiki.org/wiki/Extension:MediaWikiFarm>
- Currently used and tested by Wiki Valley to manage its projects with its customers in a wiki way : without sending many emails and/or creating files : just sharing information on one wiki.

Farm organisation and security

- Goals : Isolate clients data from the each other
- Wikis are organised by "group" or "family" which can represent a customer or a project. New wikis are created for confidential purposes.
- Each wiki of the same family uses the same database but different prefixes. Thus a customer who wants to leave the wiki farm receive only one database containing all his wikis data.

Multi-version wiki farm

As a standard MediaWiki extension, it turns MediaWiki into a single-version farm; installed "in front of MediaWiki" it becomes possible to create multi-version farms

How does it work ?

- You have to install MediaWiki for each version you need and the MediaWikiFarm extension on every MediaWiki installation.
- For each wiki you can decide which version of MediaWiki it uses. This could be done in a yaml configuration file.

Wikis version configuration file

In every wiki family directory you can decide which wiki uses which version of MediaWiki by creating a yaml file containing for example :

```
docs: 1.25.6
```

```
accounting: 1.26.3
```

For 2 wikis called « docs » and «accounting»

Wikis configuration file

Goals : reducing admin's work and providing custom wikis

Configuration files could be written in YAML, PHP, or JSON in a hierarchical manner:

- default value for each wiki in the farm
- default value for each wiki of one family erasing the default value for each wiki
- custom value for a single wiki

Configuration file example

```
wgLanguageCode: 'fr'  
wgDefaultSkin: 'vector'  
# Users rights for private wikis  
+wgGroupPermissions:  
  default:  
    '*':  
      read: false  
myopenwiki:  
  '*':  
    read: true
```

Wiki farm performance

- MediaWikiFarm is directly inspired from configuration management of Wikipedia with a strong focus on performance and versatility

PHP Version	OPCache installed ?	Speed *
5	no	130 ms
5	yes	110 ms
5	no	55 ms
7	yes	49 ms
7	Yes + configuration cache	44 ms

*according to WgBackendResponseTime

Incoming features

- Configuration made by wikis admins themselves (customers) and not only Wiki Valley employees
- Open the platform to none Wiki Valley consulting customers see <http://wiki-valley.com> (fr) (under construction)