MediaWiki should be **exceptionally** easy to install and administrate

Who would this benefit?

1. New users
2. People who have others maintaining wikis for them
3. Experienced maintainers
4. Support providers
5. Consultants
6. WMF

Install

Where does a new user begin?

Manual:Installation guide

(Redirected from Installation)

Summary [edit | edit source]

For experienced users, here is the quick version of the installation instructions. Most users will want to go through all the passages.

1. Check that your system meets the minimum requirements shown nearby; Installation requirements has more details.
2. Download MediaWiki (direct link to download the stable release version) and extract the archive to a web-accessible folder on your server.
3. Point your browser to the directory where MediaWiki was extracted and follow the link to the setup screen. It should be in the form `http://domain/directory/mw-config/index.php`. Replace *directory* with the path to your extracted MediaWiki folder. If installing on a local machine, replace *domain* with `localhost`. If you install locally and later want to access your wiki from *domain*, then you will need to change LocalSettings.php from `localhost` to *domain*. If installed on a remote server, replace *domain* with your server's domain name (eg: www.myserver.com).
4. Follow the on-screen instructions to complete the process.

Requirements in short

Make sure to also check the RELEASE NOTES shipped with MediaWiki for requirements.

- Download MediaWiki (current stable version is 1.32.0)
- **Web server** such as Apache or IIS
  - Local or command line access is needed for running maintenance scripts
- **PHP** version 7.0.13 or later
  - with Perl Compatible Regular Expressions
  - with Standard PHP Library
  - with JSON support
- **Database server**, one of the following:
  - MySQL 5.5.8+
  - MariaDB
  - PostgreSQL 9.2+
  - SQLite 3.3.7+

Image thumbnailing and TeX require additional programs. Parsoid (required by VisualEditor) and other services have their own requirements.

These instructions are deliberately brief. There is a lot that could go wrong, so if in doubt, you are advised to read the full instructions!

Main installation guide [edit | edit source]

- Before installation
  - Read what MediaWiki is
  - Check the MediaWiki feature list
  - Installation requirements - Check these before going any further!
- Installing MediaWiki
- Configuring MediaWiki
  - Initial configuration (using the configuration script)
  - Further configuration
  - Installing extensions

Alternatives to manual installation [edit | edit source]

You can avoid manual installation by using a pre-integrated MediaWiki software appliance, hosting services with 1-

Software bundles

Translate this page

Other languages:	Deutsch • **English** • català • dansk • español • français • српски / srpski • বাংলা • 中文 • 日本語 • 한국어

Manual installation of MediaWiki can be painful and time consuming, especially for users lacking technical proficiency. Some users find it easier to get up and running with MediaWiki using a **software bundle**. These software bundles include some combination of operational system, AMP package, MediaWiki software, extension package and/or template package.

Be warned that third-party packages often introduce unexpected or potentially damaging changes enforcing Filesystem Hierarchy Standard or other vendor-specific requirements. These patches are not reviewed by core developers and tend to break the wiki in a number of subtle (or even not so subtle) ways. Also, packages may contain older versions of MediaWiki, so pay close attention to compatibility information for directions and extensions. The MediaWiki development team refers you to your operational system distributor and the individual communities and companies who maintain these packages for assistance with installing, configuring or using these software bundles.

Contents [hide]

Automatic installation [edit | edit source]

The following website provides a free service that enables MediaWiki to be installed, configured, and maintained using a website's FTP information. For increased security, a separate FTP account and MySQL/MariaDB database should be created for use with this service.

- Installatron.com
- Softaculous.com

MediaWiki software appliances [edit | edit source]

A MediaWiki software appliance is a MediaWiki and AMP software preintegrated in a just-enough operational system. It allows users to altogether skip manual installation of MediaWiki and its dependencies, and instead deploy a self-contained, ready-to-use system that requires little to no setup, especially in combination with virtual machine software such as VirtualBox or VMware.

MediaWiki-Vagrant is a set of configuration scripts for Vagrant that automate the creation and update of a virtual machine that runs MediaWiki and your choice of extensions and services (source code). This is ideal for MediaWiki developers.

Several third-party MediaWiki software appliances exist. These are LAMP software bundles (Linux+AMP) including a MediaWiki server:

- Cloudron makes it easy to run web apps on your server and keep them up-to-date and secure. The MediaWiki app installs MediaWiki on Cloudron and can be configured to be a public or private wiki. The installation can be tested at the demo (username: cloudron password: cloudron)
- TurnKey MediaWiki, based on Debian includes a pre-integrated collection of popular extensions.
- rPath MediaWiki, based on rPath Linux. (No extensions included.)
- Webuzo MediaWiki, based on CentOS Linux. Runs on VMware. NOTE: Requires Premium Webuzo License Purchase
- Bitnami virtual machine Linux image with MediaWiki Stack. (No extensions included.) Requires VMware or

System-specific instructions [edit

The following pages give more detailed in
Manual:Installing MediaWiki is more up to
recommended you first consult the main i

- Intranet
- FreeBSD
- GNU/Linux
  - ALT Linux
  - Arch Linux
  - Damnsmalllinux
  - Debian or Ubuntu
  - Fedora
  - Gentoo
  - Mandriva
  - Red Hat Enterprise Linux
  - Slackware
- Mac OS X
- NetWare
- Solaris
  - Solaris 10
- Windows
  - Windows XP
  - Windows Server 2003
  - Windows Server 2008
  - Windows Server 2008 R2
  - Windows Server 2016
  - Newcomers guide
  - Streamlined Guide
  - Simple Windows Apache Installati

Notes [edit | edit source]

- MediaWiki can share the database of
- Some users find it helpful to install an
  phpPgAdmin (Postgres) to help admin

Web server

In order to serve wiki pages to browsers, MediaWiki requires some web server software. Often you will not have a choice of which software to use – it will be the one provided by your hosting provider.

Most installations use the Apache web server, available at the official download page. However, MediaWiki has also been tested under IIS 7.0, Cherokee, Hiawatha, LiteSpeed, nginx (configuration examples), lighttpd, and Caddy.

PHP

PHP is the programming language in which MediaWiki is written, and is required in order to run the software.

Note that although MediaWiki ships with an installation script which provides web-based configuration of the most important elements, some knowledge of PHP is required for more detailed customizations.

- For the latest stable version of MediaWiki, **PHP version 7.0.13 or later** is required. PHP 7 is generally supported, but PHP 7.1 causes various warnings for MediaWiki 1.28 when some extensions are enabled, see task T153505.
- The following extensions are required:
  - Perl Compatible Regular Expressions (PCRE) (MediaWiki 1.23 requires PCRE 7.2+)
  - session
  - spl
  - openssl
  - json (since 1.22)
  - mbstring (required since 1.27, recommended for earlier versions)
  - fileinfo (required since 1.30)
- Note that all of these are enabled in PHP by default.
- MediaWiki's installer will warn if you don't have the optional PHP intl extension "to handle Unicode normalization".
  - In most Debian/Ubuntu-based distros this is the php-intl package.
- PHP OpenSSL extension is also recommended. See Manual:$wgSessionInsecureSecrets.
- On most Debian/Ubuntu-based distros the php-mysql package is required if you want MediaWiki to use MySQL.
- Some features of MediaWiki may require PHP functions that execute external processes, like image thumbnailing, that some cheap hosts usually disable. This has surfaced specially in MediaWiki 1.23 on file uploads (task T68467). Please take this into consideration if you plan to install MediaWiki on a shared host.
- MediaWiki extensions may require additional PHP features, e.g. VisualEditor requires libcurl support (php-curl on Debian/Ubuntu-based distros).

If you need to compile PHP from source, then see PHP configuration for compilation options that affect MediaWiki.

- *Some servers may also require the equivalent database module and session management module be installed. See individual operating system instructions for more information.*
- *When installing on Windows using the Microsoft installer, add the extension for your database of choice (MySQL/MariaDB or Postgres) to the features to be installed.*

Database server

MediaWiki stores all the text and data (content pages, user details, system messages, etc.) in a database, which it is capable of sharing with other web-based applications (phpBB, etc.). You will need **one** of the following database servers to run the latest version of MediaWiki:

- MySQL 5.5.8+ or MariaDB 5.1+
- PostgreSQL 9.2+ (supported since MediaWiki 1.8) See Manual:Installing MediaWiki#PostgreSQL for more detail.

Optional dependencies

Other software [edit | edit source]

- **ImageMagick** or **GD** is required for image thumbnailing.
- **TeX** is required for inline display of mathematical formulae. In most Debian/Ubuntu-based distros, this is in the `texlive` package.
- **Sendmail** is required in order for the system to be able to send e-mails.
- **Shell access** is required to run Maintenance scripts; upgrading MediaWiki may be more difficult without it.
- **GNU diff3** can be provided to automatically resolve conflicts.

For further information about the above items, see Manual:Installing third-party tools.

VisualEditor [edit | edit source]

Install: Ideal future

1 action

Upgrades: Typical method

1. Set read-only
2. Get new versions of MW/extensions/etc
3. Update database
4. Try not to break anything

Upgrades: Ideal future

Auto-upgrade

Reconfigure: Typical method

1. Edit LocalSettings.php
2. Download/unzip or git-clone extensions
3. Maybe update database
4. Maybe install additional services

Reconfigure: Ideal future

Everything from the web interface

More MediaWiki admin pain

1. Making reliable backups
2. Job queue
3. Keeping configuration clean/managed
4. Moving servers and importing data

How can Meza help?

1. Install: Run `meza deploy` command

2. Upgrade: `meza update` then `meza deploy`

3. Reconfiguration: Change config then `meza deploy` to apply changes

How can Meza help?

4. Backups: `meza backup`

5. Job queue: Each `deploy` ensures the job queue runner is running

How can Meza help?

6. Keeping config clean/managed: Keep it in a Git repo and many servers can pull from it

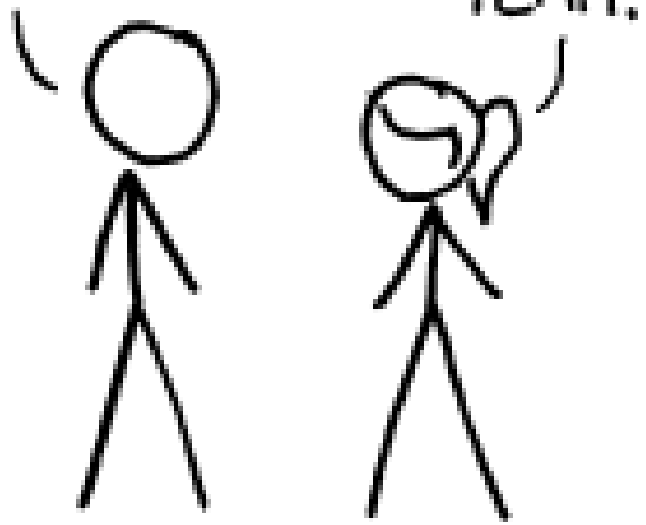
7. Moving servers: imports can pull live from existing servers using `meza deploy --overwrite`

Another install method?

HOW STANDARDS PROLIFERATE:
(SEE: A/C CHARGERS, CHARACTER ENCODINGS, INSTANT MESSAGING, ETC)

SITUATION:
THERE ARE
14 COMPETING
STANDARDS.

14?! RIDICULOUS!
WE NEED TO DEVELOP
ONE UNIVERSAL STANDARD
THAT COVERS EVERYONE'S
USE CASES.



SOON:

SITUATION:
THERE ARE
15 COMPETING
STANDARDS.

https://xkcd.com/927/

What's different about Meza?

Most of the install docs are *just manuals,*
not comprehensive installers

Other full installers

1. MediaWiki-Vagrant: Development only
2. Docker-based projects: Development only
3. Puppet-based: Production-only, extensible?
4. Debian packages: Debian-only, ~MW core only

Meza’s goals

“To make it possible for everyone to have a modern, fully-featured MediaWiki installation”

1. Install easy enough for anyone
2. Automate everything possible
3. For production and dev
4. Support more than just Debian

Meza’s weaknesses

1. Far from 1-action install
2. Upgrade is easy (auto-upgrade would be better)
3. Built-in extensions (planned removal in 32.x)
4. No extensions from web interface (yet)
5. No settings changes from web interface

Meza's strengths

1. Simplified install, upgrade, reconfig, backups, imports, job queue
2. Encourage good config management (and autodeployer)
3. Wiki farm – `meza create wiki`
4. Difficult extensions: VE, CirrusSearch, SMW, etc
5. Multi-server (optional)

Autodeployer

1. Make a change to config repository
2. Autodeployer detects changes to config or Meza, then deploys
3. Gives announcements on chat program

Add Extension:Cargo

Showing 1 changed file with 7 additions and 0 deletions

MezaLocalExtensions.yml

```
...  ...  @@ -4,3 +4,10 @@ list:
4    4      - name: RevisionSlider
5    5        repo: https://github.com/wikimedia/mediawiki-e
6    6        version: "{{ mediawiki_default_branch }}"
     7  +
     8  +    - name: Cargo
     9  +      repo: https://gerrit.wikimedia.org/r/p/mediawi
    10  +      version: master
    11  +      config: |
    12  +        $smwgEnabledCompatibilityMode = true;
    13  +        $wgCargoDefaultQueryLimit = 5000;
```

EMW.o Autodeployer APP 8:20 AM

Public config changed versions:

FROM: `b9162ebf3a057579ab8193562340664d786428eb`

TO: `95d8b5c281f8cdce11d1833cf8a9d1126b14bde7`

Tracking version: `master`

Commits:

95d8b5c Fix landing page title

Diff:

```
diff --git a/public.yml b/public.yml
index c305b77..221a528 100755
--- a/public.yml
+++ b/public.yml
@@ -15,7 +15,7 @@ m_use_production_settings: True
# meza_auth_type: "viewer-read"
meza_auth_type: "anon-read"

-blender_landing_page_title: Test of Meza Wikis
+blender_landing_page_title: Meza Wikis

# Email senders
# Refs:
```

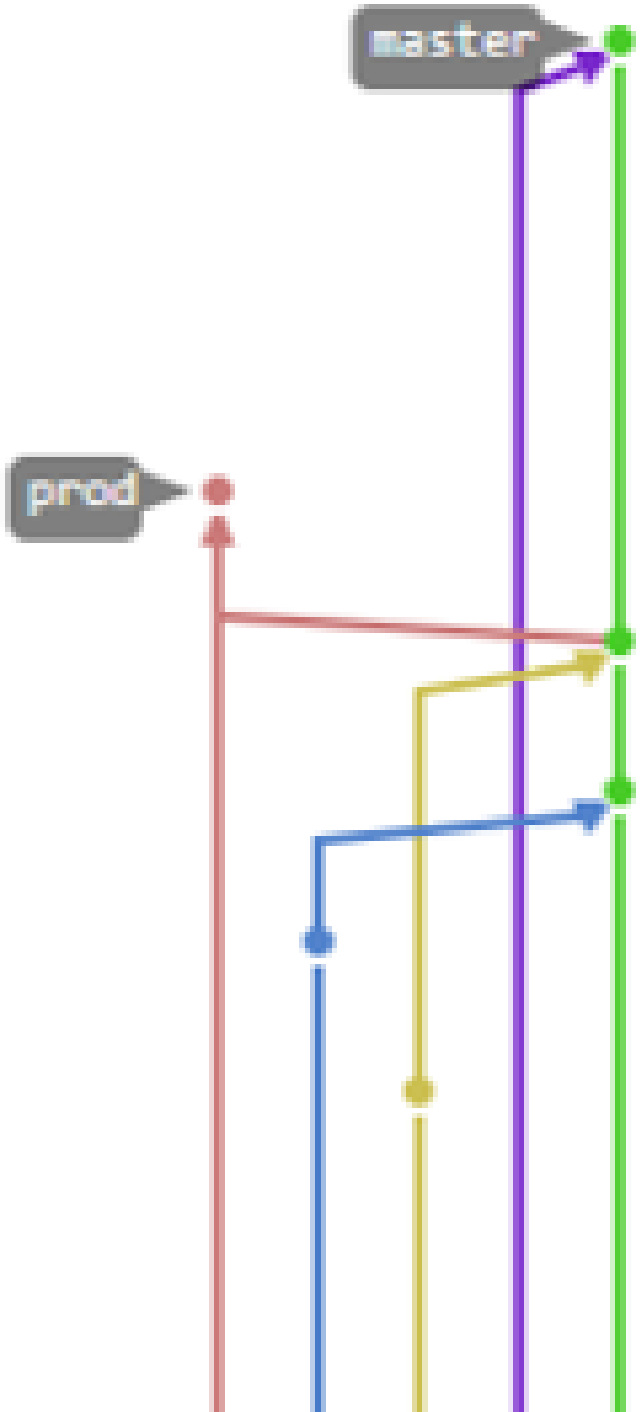
Show less

Deploy starting

https://gitlab.com/enterprisemediawiki/emw.o-public

Handling config

- Configuration saved in a Git repo
- Users make merge requests for config changes, new extensions, etc
- Config repo:
  - master branch → staging server
  - prod branch → production server



High level

MediaWiki should be **exceptionally** easy to install and administrate

Links

- Code: https://github.com/enterprisemediawiki/meza
- Docs: https://www.mediawiki.org/wiki/Meza