Requirements

This page lists the minimum requirements and recommended settings to install Tiki.

See also Tiki's Lifecycle and Browser Compatibility.

If you are using a standard shared webhost, your webhost most likely meets these requirements and you should be able to install Tiki with no problems. Tiki is designed to run on shared hosting, using the LAMP stack.

These instructions are useful for people that are configuring their own server for Tiki.

Shared Host

Tiki will run in most shared webhost environments. Many hosts offer Tiki installation via a control panel application (such as Fantastico).

You should verify that your webhost meets the minimum requirements:

- HTTP server
- Database
- PHP

See Tiki Friendly Hosts for a list of working shared host environments.

Requirements

Webserver

You must have a fully operational webserver in order to install and use Tiki. Tiki *should* run on **any** webserver that supports PHP (such as nginx, Windows IIS or lighttpd), but is most widely tested and used with Apache. You may need to make minor modifications for non-Apache webservers.

Your webserver should be configured with the following **minimum** requirements:

- 512 MB RAM
- 100 MB free storage

Database 



Tiki requires MariaDB, MySQL or Percona Server for MySQL.

We are moving to a machine readable format:
https://gitlab.com/tikiwiki/tiki-manager/-/blob/master/config/tiki_requirements.yml

Tiki Version	MariaDB Versions	MySQL Versions	Notes
Tiki27 LTS (not released yet)	10.2.2+	5.7+	MariaDB 10.2.2+ or MySQL 5.7+ are recommended. These are the versions where the InnoDB row format is by default Dynamic, required for some tables.
Tiki21 to Tiki26	5.5+	5.7+	No known issues as of 2023-06-15

Tiki Version	MariaDB Versions	MySQL Versions	Notes
Tiki19 or Tiki20	5.5-10.4	5.5.3-5.7	MySQL 5.6+ or MariaDB 10.1+ are recommended. First version to support utf8mb4
Tiki18 LTS	5.1-10.4	5.0-5.7	MySQL 5.6+ or MariaDB 10.1+ are recommended as not all features will be available at lesser versions.
Tiki15 LTS	5.0-10.1	5.0-5.6	In Tiki 15+ Upgrade scripts in in MariaDB 10.1 / MySQL 5.6 may not work from earlier versions of Tiki.
Tiki12 LTS	5.1-5.5	5.0-5.5	

The database can be installed in the same physical location of the webserver (that is, as **localhost**) or Tiki can access a remote database.

PHP



We are moving to a machine readable format:
https://gitlab.com/tikiwiki/tiki-manager/-/blob/master/config/tiki_requirements.yml

Tiki Version	Minimum PHP Version	Maximum PHP Version	Notes
Tiki28 (not released yet)	8.1?	8.3?	We'll decide this once Tiki27 is released. Expected to be OK until PHP 9.0
Tiki27 (not released yet)	8.1	8.3	Expected to be OK until PHP 9.0
Tiki26	8.1	8.1 (8.2 and 8.3 as Beta)	Related: PHP 8
Tiki22, Tiki23, Tiki24 LTS and Tiki25	7.4	7.4	
Tiki21 LTS	7.2	7.3	You can fairly safely use 7.4 if you disregard or suppress the notices and warnings.
Tiki19 or Tiki20	7.1	7.2 (maybe 7.3 as well)	There is known issue with Tiki 20.2 where PHP requirement was bumped up to PHP 7.2 accidentally
Tiki18 LTS	5.6	7.2	

Tiki Version	Minimum PHP Version	Maximum PHP Version	Notes
Tiki15 LTS	5.5	5.6	
Tiki12 LTS	5.3	5.6	

Interesting links about PHP lifecycle

- http://php.net/supported-versions.php
- https://wiki.php.net/rfc/releaseprocess
- https://w3techs.com/technologies/details/pl-php

Note on PHP Memory Limits:
The default memory_limit in a standard PHP installation is **128M**, and this should be fine for the vast majority of Tiki installations. Some web hosts install PHP with a lower default. Although Tiki may appear to install successfully, you will continually face issues with pages failing to load and system errors.

To review your PHP Memory Limits, access **http://www.example.com/tiki-phpinfo.php** and review the following values:

- max_execution_time = 60 ; Maximum execution time of each script, in seconds
- max_input_time = 60 ; Maximum amount of time each script may spend parsing request data
- memory_limit = 128M ; Maximum amount of memory a script may consume

For some shared webhosts, these values may not be user-configurable and you may need to request changes from your webhost, whereas in other hosts you are allowed to fine tune these settings for your needs. You can try uncommenting the corresponding lines in the .htaccess file at your tiki root folder on the server, like:

```
# increase memory php_value memory_limit 128M # increase execution time... php_value
max_execution_time 90
```

More information

Required PHP Functions

Some webhosts tend to disable some functions which are required for Tiki to run flawlessly.

Function	Notes
eval()	Required by Smarty templating engine. Causes "Please contact support about" messages appearing instead of Modules when *eval()* is disabled in `php.ini`.

Additional Libraries

Library	Notes
libxml	Required

Library	Notes
DOM	Required starting from Tiki 19
mbstring	Useful when working with languages that require it mbstring needs to be compiled with --enable-mbregex or otherwise you will be missing functions like mb_split() which are needed for example by Smarty. Since Tiki 17, the symfony/polyfill-mbstring compatibility library (via symfony-console) is used in core functionality, but mbstring is still required for some functionality.
ctype	Required
calendar	Required
iconv	Required by certain Zend Framework validation and parsing classes
MySQLi	In Tiki 12+ MySQLI is recommended but the Tiki installer will fall back to the older MySQL driver if MySQLi is unavailable.
zip	The ZipArchive class for php must be installed for some features such as XML Wiki Import-Export and PluginArchiveBuilder

php.ini Configuration

We recommend using the following configuration in your **php.ini** file:

PHP.INI Setting	Description
memory_limit = 128M	Specify the maximum memory for PHP scripts.
_file_uploads = On	Required to allow uploads (files, images, etc.) to your Tiki
upload_max_filesize = XXM **post_max_size**	Specify the maximum upload filesize (in MB).
session.save_path = /tmp	The directory where PHP stores session information (for the default handler (*files*)). Ensure that the location exists and is writable. In Shared Hosting environments, if you do not have access to **/tmp**, use **temp** (no slash) instead.
max_execution_time = 60 **max_input_time = 60**	Specify the idle timeout (in seconds). If you experience timeouts (such as when performing Admin functions) you may need to increase these settings.
default_charset = "utf-8"	Specify the default character encoding.
mbstring.func_overload = 0	Tiki will not work properly with **mbstring.func_overload = 7**.

The location of the **php.ini** file may vary, depending on your operating sytem. Some common locations include:

- /etc/php.ini
- /etc/php/php.ini
- /etc/php5/apache2/php.ini (Debian)
- /etc/php/7.x/apache2/php.ini
- \windows\system\php.ini (Windows)

Optional Software or Libraries

Some Tiki features require the following additional software or libraries:

Feature	Additional Requirements
Rewrite Tiki's default URLs	Use the Apache Clean URLs to create shorter, or custom, URLs.
Elasticsearch	See Elasticsearch page (requirements section)
Manticore Search	See Manticore Search page (requirements section)

Tiki Manager

- Tiki Manager checks which version it can install or upgrade to: https://gitlab.com/tikiwiki/tiki-manager/-/merge_requests/233/diffs
- Here is the current data: https://gitlab.com/tikiwiki/tiki-manager/-/blob/master/config/tiki_requirements.yml