Performance

**To access:** Click the **Performance** icon on the **Admin Panel** or Access [http://example.org/tiki-admin.php?page=performance](http://example.org/tiki-admin.php?page=performance)

By default, Tiki is configured with default performance settings which should suit most contexts. For example, Tiki uses the **Smarty template engine** and it has **built-in cache**. If you find Tiki slow, this page is here to help.

**Basic tips**

- Don’t be cheap on hardware or hosting. Get the good stuff.
- Use recent versions of PHP/MySQL/Apache etc. as each new version is typically faster than the previous
  - PHP 5.3 is 1.2 times faster than PHP 5.2 for raw execution speed
  - Use the latest stable Tiki version or LTS version (but you should be doing this anyway even without performance concerns)
- Use OPcache, which is now the de facto standard starting in PHP 5.5 (and installable on older versions). If that is not working, use APC or XCache (see below)
- Turn off any feature you are not using
- Use the **Performance Admin Panel** at tiki-admin.php?page=performance where you can configure the various performance-related settings, including **Content Delivery Network**. Otherwise, most performance tuning is done by tweaking the server (outside the scope of Tiki)
- Increase the "memory_limit" of your PHP instance (128M is the default)
- Think also about configuring your web server (for example, setting a long expiry date for images, css and js files)
  - **Tiki5** has many enhancements related to **YSlow** tests
    - Activate **htaccess**
- Use a free tool like gtmetrix.com to measure the impact of your optimisations on the loading speed of your site.
- If you run into trouble, check [Troubleshooting](#).

**Real User Measurement**

- [Real User Measurement](#)

**Minify JavaScript**

- [Minify JavaScript](#)

**Minify CSS**

- [Minify CSS](#)
Apache (httpd.conf)
  - httpd.conf

PHP Settings (php.ini)
  - php.ini

Accelerating PHP
OPcache
  - OPcache

Alternative PHP Cache (APC)
  - APC

XCache
  - XCache

eAccelerator
  - eAccelerator

Memcached
  - Memcached

Redis
  - Redis

Database performance
This is a troubleshooting guide for database performance.

MySQL
MySQL has a slow queries feature which is accessible via a log or at the command line. Please read the MySQL manual page to enable this feature.

Using the information in MySQL's chapter on optimization, look for places where indexes may improve the database access speed. Add an index, then re-test. If you think you've found an improved indexing scheme, please open a tracker item on dev.tiki.org.
In tiki-admin.php?page=general, you can activate Log SQL and set Log queries using more than (seconds):

**MySQL replication**

- MySQL replication

**Related pages**

- Compression
- Link Cache

**Related links**

- [http://www.webpagetest.org/](http://www.webpagetest.org/)
- [http://gtmetrix.com/](http://gtmetrix.com/)
- [https://www.dotcom-tools.com/](https://www.dotcom-tools.com/)
- [https://www.ohloh.net/tags/stress-testing](https://www.ohloh.net/tags/stress-testing)
- [mod_perl Performance Tuning](http://www.joedog.org/siege-home/) (This is a page about mod_perl tuning, just ignore the perl stuff and look at the apache tweaks in there.)
- [Häuptling Schnelles Wiesel: Wirksames Tuning für viel besuchte Webauftritte](http://blog.lavoie.sl/2012/09/protect-webserver-against-dos-attacks.html) Additional apache tuning for sites with much traffic (in German)

**Alias**

- Tikiwiki Performance Tuning
- Database performance