Server check

Tiki Check is stable & functional. Below are some ideas for the future, but no more imminent work is planned.

Bugs

- 9.2 Tiki check was reporting "You do not have the recommended PDO database driver/abstraction layer. You do have the MySQLi driver though, so we will to fall back to the AdoDB abstraction layer that is bundled with Tiki.", yet an issue was reported:
  http://irc.tiki.org/irclogger_log/tikiwiki?date=2012-12-19,Wed&sel=120#l116
- 10.x "Notice: Undefined index: max in /www/htdocs/w00ec615/10x/modules/mod-func-facebook.php on line 57" http://demo.tiki.org/18x/tiki-check.php

Next

- tiki-check.php: make all these 50+ values available to Nagios/Icinga/Shinken
- tiki-check.php should refuse being indexed by robots (how to do this in PHP?)
- The checks we have for .htaccess (which are in tiki-admin.php?page=sefurl) should be available in tiki-check.php and when .htaccess is not the correct one for that version, there should be a huge warning
- Make it easy to find for site admins (ex.: add link in menu, or admin panel)
- Backport to branches/9.x
- tiki-install.php -> * PHP error reporting level should not be reverted
  Done in trunk and 9.2
- Testing Tiki installations on major Shared Hosting companies
- Make a section for advanced things that basic users shouldn’t worry about
  Done, I changed the category from bad to info

Questions

- In tiki-admin_system.php, when exporting a zip: Error:PCLZIP_ERR_READ_OPEN_FAIL (-2) : Unable to open archive " in wb mode
- Is realpath_cache check suitable for Tiki Check?
- Is there a reliable way to tell people where to change the settings? (ex: /etc/php.ini /etc/my.cnf )
- Are warnings about default_charset and date.timezone too stern? I have seen them on servers where Tiki works nicely
  ◦ I changed from bad to ugly
- if possible warn when running with another MPM than "prefork" - PHP is NOT thread-safe
  ◦ can this be checked from PHP at all? (without using exec and parsing apachectl output)
- session.save_path = /tmp
  ◦ Does it make sense to check that?! Reasonable values for this vary from server to server and setup to setup.
- Can we check for a working .htaccess?
  ◦ e.g. create a htaccess with some RewriteRule in it, call the URL and see if it is being rewritten
  ◦ any smarter way?
• Can we check for the configuration of mod_deflate/expires/security?
• Disk space check should be KIled completely, it's the wrong place for it here.
  ◦ Is there a more reliable way to detect disk space available, which seems unreliable because of
    quotas and on shared hosting.
  ▪ This is really something the Monitoring system should warn about 😄
  ▪ https://github.com/zendframework/ZendDiagnostics#diskfree

Phase 2

• Zend_Search_Lucene doesn’t work on certain servers
  ◦ Also, sometimes, it crashes during rebuild. If you have two directories (temp/unified-index-new/
    and temp/unified-index/), it means that something went wrong. Tiki Check should detect and
    report this.

Beyond Tiki Check, but let's explore

• Should we have tiki-admin.php?page=server where we attempt to override various settings
  uncovered by Tiki Check?
  ◦ Increase memory_limit to 128M if detected below that value
    ▪ Done in http://sourceforge.net/p/tikiwiki/code/43870 and
      http://sourceforge.net/p/tikiwiki/code/43907
    ◦ Should we turn off magic quotes if we can? ini_set('magic_quotes_gpc', 'Off');
• File storage
  ◦ If more than 50 Megs in MySQL, recommend to the admin to move to filesystem
  ◦ If set to filesystem, but they are not accessible/writable, give a warning
• check if we are often using more than x% of memory_limit and warn the admin
• Run tiki-check automated, regularly in the background and e-mail admin or something like that
  ◦ Run on Pre-Dogfood Servers and send an email report of hard crashes. (email could be stored in
    db/local.php)
• security - how to lock it? (turtle)
  ◦ If a Tiki is installed where tiki-check.php is, it should use tiki auth system and check
    tiki_p_admin, or ask for db/local.php info (because if Tiki is crashed, it can't check for
    tiki_p_admin). If it detects a brute force password attack, it should lock itself like t0iki-
    install.php does.
• what happens, if Tiki is crashed
  ◦ We want it to run in standalone, but we don't want people to DoS a Tiki to read it
• A function to export to txt, csv, html or something for easy distribution to people wanting to help on
  debugging
  ◦ ask LPH for some parsable format
    ▪ Could be .csv to mother.tiki.org
  ◦ We should do this at the end
• In tiki-admin.php it should be warned that activating a feature doesn't help, if the server environment
  doesn't support it
  ▪ e.g. fileinfo extension is needed for 'Validate uploaded file content'
File/folder permissions

- We currently have a check somewhere (tiki-install.php?) which brings up an ugly page if perms are detected to be incorrect and informs the user on what to do next
- In some places, Tiki code checks if it can write somewhere. Ex.: tiki-edit_templates.php, tiki-edit_css.php
  - Maybe these checks should be centralized so we can have an overall diagnostics?
- several different usecases need different treatment in setup.sh
  - if Tiki install fails, we can use permissioncheck (at work, 2012-10) to guide the users

**tiki-recovery.php**

- See Recovery

**Nice to have**

- Can Tiki index file content? -> [Search Within Files](#)
  - Link to Admin->File Galleries
- Check if Tikis Paths fit open_basedir
- It would be nice to run from the command line php tiki-check.php and have a decent looking output (now it's hard to read HTML)
  - Since CLI PHP can be different than the web PHP, is this a good idea?

**Low priority (only do if very easy)**

- Show DB-credentials form in the MySQL section
- Is it possible to report 32bits vs 64 bits? (useful to know what software to install)
- Indicate if MyISAM or InnoDB (people can use adminer.php)
- Warn if correlating values are too far off each other, for example
  - max_execution_time <> max_input_time
  - upload_max_filesize <> post_max_size <> max_allowed_packet

**sh tiki-check.sh**

- Since some things (like Apache worker MPM) can't be detected via PHP, perhaps the next step will be tiki-check.sh Let's move all the checks that can't be done via PHP to this section. And even here, some things will require root.
- Check for these [Server tools](#) or for [requirements for TRIM](#)

**Server check script examples**

- [https://github.com/llaville/php-compat-info](https://github.com/llaville/php-compat-info)
- [http://www.bitweaver.org/wiki/bitweaverRequirements](http://www.bitweaver.org/wiki/bitweaverRequirements)
• http://www.magentocommerce.com/knowledge-base/entry/how-do-i-know-if-my-server-is-compatible-with-magento
• WordPress ServerBuddy (needs a WordPress install)
• http://phpsysinfo.sourceforge.net/
• http://phpsec.org/projects/phpsecinfo/ (very old)
• http://www.phpservermonitor.org/
• https://packagist.org/packages/linfo/linfo

Good, bad, ugly references

• http://en.wikipedia.org/wiki/GStreamer#Plug-ins
• http://en.wikipedia.org/wiki/The_Good,_the_Bad_and_the_Ugly

In Nagios, it's OK, WARNING, UNKNOWN, or CRITICAL

Related

• Reporting errors (to tiki.org) system (like Firefox Talkback)
• Update notifier
• Infrastructure Revamp
• Cron
• Compatibility
• https://docs.zendframework.com/zend-diagnostics/diagnostics/

alias

• System check tool
• pre-flight check
• Test server compatibility
• Check