ClearOS Community is a cloud-connected Server, Network, and Gateway operating system designed for homes, hobbyists and Linux developers. ClearOS comes with a Marketplace full of easy to install apps and the solution is a snap to configure thanks to the intuitive web-based interface.

It is a central component of Tiki Suite and has a very large number of well integrated features to choose from: Mail & Webmail, LDAP, VPN & Firewall, etc.

- ClearOS official site
- https://www.ohloh.net/p/clearos
- http://www.clearcenter.com/support/documentation/clearos_guides/start
- Join the Tiki/Tiki Suite group on the ClearOS site.
- How to install Tiki on ClearOS
  - Tiki on Clearos first experiments
- Creating A ClearOS Module
- From CentOS to ClearOS
- https://github.com/clearos/app-tiki

PHP & MySQL & jQuery & jQuery Mobile like Tiki. And next version will use Bootstrap, like Tiki

Benefits

- ClearOS self-updates by default. Once we add Tiki in the marketplace, we can work towards a self-updating Tiki (within LTS branches)
- ClearOS is available as a hardware appliance and thus, it will eventually become possible to purchase a Tiki-branded box, with self-updating Tiki, that can be installed on site or in a colo.
- ClearCenter offers many services, such as Domain names & DNS services, Remote backups, etc. in a unified interface.
  - Later, SSL certificates, phone numbers and SMS.
- Tiki is generally really good at things that can be done in PHP/MySQL/JavaScript on shared hosting. However, for some things, we need root server access, and concentrating on a reference implementation is the smart thing to do. As a community, we'll make sure it all works well together.
  - wkhtmltopdf for really nice PDFs
- [http://www.clearfoundation.com/docs/howtos/wkhtmltopdf](http://www.clearfoundation.com/docs/howtos/wkhtmltopdf)
- The various software to **Search within files** (Perhaps re-use some that Zarafa installs anyway)
- **ElasticSearch**, for advanced searching and natural language processing features
- Better interop with the OpenLDAP server
- Better interop with the web server
  - **Link checker** All visits to Tiki error pages or Apache error pages should be available in a unified report (ex: top-10 errors your visitors are getting this week) so site admin can make redirect pages. See also Piwik
- Better interop with the mail server
  - For example **Forum and List Synchronization** (but really with recent work on Mail-in and Notifications in Tiki 13, we should be really close to being able to do a real Mailing List in Tiki, with a cron job to check/send messages)
  - High-volume newsletters: Tiki **newsletters** are fine for small & medium volumes, but they need to be improved for large volumes and the interop with ClearOS's mail server will permit things like: bounce handling, reduce chance of messages to be identified as SPAM, etc.
  - Things in Tiki like tracker items, pages, groups, file galleries, etc. could be assigned email addresses. Ex.: So take a picture on smartphone and email to be added to file gallery or tracker item. We can already do some of this, but it's manual process to set up.
- **Cron jobs** and **Batch** processes
- Improve **TRIM** and eventually add a nice GUI
- Node.js apps such as Mozilla Together
- Should be able to convert files if appropriate tools are available on the server
  - FFmpeg
- Better security and performance
  - **Antivirus**
  - **Memcached**
  - **httpd.conf**
  - **php.ini**
  - Make sure SSL is OK as per [https://www.ssllabs.com/ssltest/analyze.html?d=doc.tiki.org](https://www.ssllabs.com/ssltest/analyze.html?d=doc.tiki.org)
  - **IDS / IPS**
    - While **Intrusion prevention systems** do exist in PHP (and we may add **PHPIDS** one day), they generally are done at the server level and we do run into interoperability challenges, such as False positives in ModSecurity
    - [http://www.clearcenter.com/support/documentation/user_guide/intrusion_prevention](http://www.clearcenter.com/support/documentation/user_guide/intrusion_prevention)
    - [http://www.clearcenter.com/support/documentation/user_guide/intrusion_detection](http://www.clearcenter.com/support/documentation/user_guide/intrusion_detection)
  - WebDAV via **SabreDAV** will be added to Tiki in the future and server configuration is important: [http://sabre.io/dav/webservers/](http://sabre.io/dav/webservers/)
- **ClearOS** also has many benefits
  - Diversify community via Tiki's user & dev base:
    - [http://info.tiki.org/article192-Tiki-Passes-1-Million-Downloads](http://info.tiki.org/article192-Tiki-Passes-1-Million-Downloads)
  - can access different web expertise and become more "webby" (Bootstrap, SEO, etc)
  - Tiki can serve as a reference implementation for any PHP app
Existing Apps

- Zarafa

Apps to create or improve

- Tiki
- Piwik
- Elasticsearch
- Syncthing
- XMPP -> Openfire Meetings
- Kimchi, WebVirtMgr or phpVirtualBox
- CronJob GUI
- FreeSWITCH & FusionPBX

http://www.clearfoundation.com/docs/developer/framework/tutorials/adding_clearos_apps_in_github
http://www.clearfoundation.com/docs/developer/framework/tutorials/hello_world

To do: test text based browsers in ClearOS to work with Syncthing, Kimchi and Tiki (and the ClearOS GUI)

Included projects

And many others:
http://www.clearfoundation.com/Foundation/integrated-code.html

Top feature requests / bug reports

- 0001358: Avoid writing to the file system if disk is nearly full.
- Easy CSR / SSL support

On radar

- MPEG-DASH on ClearOS
Long term

- We could see ClearOS for ARM processors

Related links