## Installing Trac as CGI

Please note that using Trac via CGI is the slowest deployment method available. It is slower than <u>mod\_python</u>, <u>FastCGI</u> and even <u>IIS/AJP</u> on Windows.

CGI script is the entrypoint that web-server calls when a web-request to an application is made. To generate the trac.cgi script run:

trac-admin /path/to/env deploy /path/to/www/trac

trac.cgi will be in the cgi-bin folder inside the given path. *Make sure it is executable by your web server*. This command also copies static resource files to a htdocs directory of a given destination.

## Apache web-server configuration

In <u>Apache</u> there are two ways to run Trac as CGI:

- i. Use a ScriptAlias directive that maps an URL to the trac.cgi script (recommended)
- ii. Copy the trac.cgi file into the directory for CGI executables used by your web server (commonly named cgi-bin). You can also create a symbolic link, but in that case make sure that the FollowSymLinks option is enabled for the cgi-bin directory.

To make Trac available at http://yourhost.example.org/trac add ScriptAlias directive to Apache configuration file, changing trac.cgi path to match your installation:

ScriptAlias /trac /path/to/www/trac/cgi-bin/trac.cgi

Note that this directive requires enabled mod\_alias module.

If you're using Trac with a single project you need to set its location using the TRAC\_ENV environment variable:

<Location "/trac"> SetEnv TRAC\_ENV "/path/to/projectenv" </Location>

Or to use multiple projects you can specify their common parent directory using the TRAC\_ENV\_PARENT\_DIR variable:

```
<Location "/trac">
```

SetEnv TRAC\_ENV\_PARENT\_DIR "/path/to/project/parent/dir"
</Location>

Note that the SetEnv directive requires enabled mod\_env module. It is also possible to set TRAC\_ENV in trac.cgi. Just add the following code between "try:" and "from trac.web ...":

import os os.environ['TRAC\_ENV'] = "/path/to/projectenv"

Or for TRAC\_ENV\_PARENT\_DIR:

import os os.environ['TRAC\_ENV\_PARENT\_DIR'] = "/path/to/project/parent/dir"

If you are using the Apache suEXEC feature please see <a href="http://trac.edgewall.org/wiki/ApacheSuexec">http://trac.edgewall.org/wiki/ApacheSuexec</a>.

On some systems, you *may* need to edit the shebang line in the trac.cgi file to point to your real Python installation path. On a Windows system you may need to configure Windows to know how to execute a .cgi file (Explorer -> Tools -> Folder Options -> File Types -> CGI).

## Using WSGI

You can run a <u>WSGI handler under CGI</u>. You can write your own application function, or use the deployed trac.wsgi's application.

## Mapping Static Resources

See <u>TracInstall#MappingStaticResources</u>.

Adding Authentication

See <u>TracInstall#ConfiguringAuthentication</u>.

See also: TracGuide, TracInstall, TracModWSGI, TracFastCgi, TracModPython