Wikiprint Book

Title: Installing Trac as CGI

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Installing Trac as CGI

> *Please note that using Trac via CGI is the slowest deployment method available. It is slower than mod_python, FastCGI and even ?IIS/AJP 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 ?Apache 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 ?http://trac.edgewall.org/wiki/ApacheSuexec.

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 ?WSGI handler ?under CGI. You can write your own application function, or use the deployed trac.wsgi's application.

Mapping Static Resources

See TracInstall#MappingStaticResources.

Adding Authentication

See TracInstall#ConfiguringAuthentication.

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