

Installing Trac as CGI

Error: Macro TracGuideToc(None) failed

```
'NoneType' object has no attribute 'find'
```

1. Installing Trac as CGI

1. Apache web-server configuration

1. Python Egg Cache

2. Using WSGI

2. Mapping Static Resources

3. Adding Authentication

Please note that using Trac via CGI is the slowest deployment method available. It is slower than `mod_wsgi`, `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. The `trac.cgi` script can be created using the `trac-admin <env> deploy <dir>` command which automatically substitutes the required paths, see [TracInstall#cgi-bin](#). Make sure the script is executable by your web server.

Apache web-server configuration

In [?Apache](#) there are two ways to run Trac as CGI:

1. Use a `ScriptAlias` directive that maps a URL to the `trac.cgi` script (recommended)
2. 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 that the `mod_alias` module is enabled.

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 that the `mod_env` module is enabled.

An alternative to `SetEnv` is editing `TRAC_ENV` or `TRAC_ENV_PARENT_DIR` in `trac.cgi`:

```
os.environ['TRAC_ENV'] = "/path/to/projectenv"
```

```
os.environ['TRAC_ENV_PARENT_DIR'] = "/path/to/parent/dir"
```

If you are using the [?Apache suEXEC](#) feature please see [?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).

Python Egg Cache

The [egg-cache](#) can be configured using an `os.environ` statement in `trac.cgi`, as shown above. To do the same from the Apache configuration, use the `SetEnv` directive:

```
SetEnv PYTHON_EGG_CACHE /path/to/dir
```

Put this directive next to where you set the path to the [Trac environment](#), i.e. in the same `<Location>` block.

```
<Location /trac>
  SetEnv TRAC_ENV /path/to/projenv
  SetEnv PYTHON_EGG_CACHE /path/to/dir
</Location>
```

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: [TracInstall](#), [TracModWSGI](#), [TracFastCgi](#), [TracModPython](#)