**apache2支持cgi配置**

[**http://code-maven.com/set-up-cgi-with-apache**](http://code-maven.com/set-up-cgi-with-apache)

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**Install Apache 2**

If you don't have it installed yet, you will need to install the web servers itself:

*$ sudo apt-get install apache2*

**Install curl**

curl can be used to fetch web pages. It is not a requirement for our set up, but it is nice to have on the server as it can be used to check the pages without opening a real browser. Besides, at least in my set up, I have configured the web server on a Virtual Environment, but I have not set up port-forwarding for port 80 yet and thus I would not be able to access the web server from my desktop. (The article about Vagrant development environment has explanation how to set up the port forwarding.)

*$ sudo apt-get install curl*

Try the web server

At this point we can try if the web server works:

$ curl <http://127.0.0.1/>

It will print some HTML on the screen.

**Configure CGI**

I looked around the /etc/apache2 directory, which is the standard place to find the configuration files of Apache. I've found the /etc/apache2/conf-available/serve-cgi-bin.conf file that has a symbolic link from /etc/apache2/conf-enabled/serve-cgi-bin.conf. It has a section that maps the /cgi-bin path in the URLs to the /usr/lib/cgi-bin/ directory in the hard disk and enables CGI execution in this directory.

examples/apache/serve-cgi-bin.conf

*<IfModule mod\_alias.c>*

*<IfModule mod\_cgi.c>*

*Define ENABLE\_USR\_LIB\_CGI\_BIN*

*</IfModule>*

*<IfModule mod\_cgid.c>*

*Define ENABLE\_USR\_LIB\_CGI\_BIN*

*</IfModule>*

*<IfDefine ENABLE\_USR\_LIB\_CGI\_BIN>*

*ScriptAlias /cgi-bin/ /usr/lib/cgi-bin/*

*<Directory "/usr/lib/cgi-bin">*

*AllowOverride None*

*Options +ExecCGI -MultiViews +SymLinksIfOwnerMatch*

*Require all granted*

*</Directory>*

*</IfDefine>*

*</IfModule>*

# vim: syntax=apache ts=4 sw=4 sts=4 sr noet

That's not enough though. We also need to enable the CGI module of Apache.

The installed modules of Apache can be found in the /etc/apache2/mods-available directory. The cgi module is called cgi.load

The enabled modules have symbolic links in /etc/apache2/mods-enabled, but as I found out, the CGI module did not have a symbolic link there: The CGI module was not enabled by default.

*$ cd /etc/apache2/mods-enabled*

*$ sudo ln -s ../mods-available/cgi.load*

Added the symbolic link.

**Reload Apache configuration**

As the configuration of Apache has changed we need to tell Apache to reload its configuration files:

*$ sudo service apache2 reload*

**Create the first CGI script**

Now that we have enable CGI we can create our first CGI script.

This first CGI example will be created in Bash. Later on you can check out the solutions to the various web exercises Especially the Hello World! exercise and the Web Echo exercise and their solutions.

I've created a file called /usr/lib/cgi-bin/hw.sh using sudo vim /usr/lib/cgi-bin/hw.sh

examples/apache/hw.sh

#!/bin/bash

printf "Content-type: text/html\n\n"

printf "Hello World!\n"

Made it executable:

*$ sudo chmod +x /usr/lib/cgi-bin/hw.sh*

Then I could access it through Apache using:

$ curl <http://127.0.0.1/cgi-bin/hw.sh>

Hello World!

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在default文件中添加如下内容：

*ScriptAlias /cgi-bin/ /usr/lib/cgi-bin/*

*<Directory "/usr/lib/cgi-bin">*

*AllowOverride None*

*Options +ExecCGI -MultiViews +SymLinksIfOwnerMatch*

*Require all granted*

*AddHandler cgi-script .cgi*

*</Directory*>