## 电子商务实验报告 1

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macOS 搭建 HTTP 服务器

配置 Apache 服务(在这里我们也可以用 NGINX 服务器来搭建 HTTP 服务器)

环境: macOS Ventura 13.1

第一步:由于 mac 自带 Apache 环境,所以我直接在终端 terminal 直接输入 sudo apachectl start 来启动 apache 服务

Last login: Thu Feb 23 12:34:30 on ttys001

The default interactive shell is now zsh.

To update your account to use zsh, please run `chsh -s /bin/zsh`.

For more details, please visit https://support.apple.com/kb/HT208050.

MacBook-Air:~ alex\$ sudo apachectl start

Password:

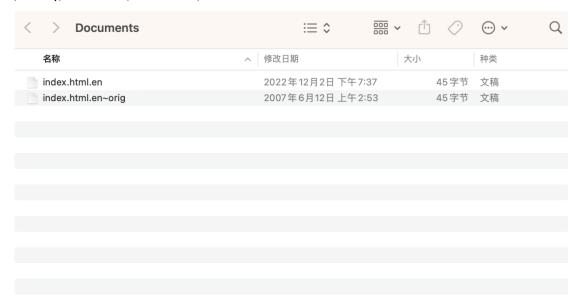
输入完本机密码之后 我们浏览器打开 http://localhost/就会显示 it Works!



It works!

问题: 我要怎么设置自己的域名

第一步: 我们要找到我们的 Apache 所在的目录 首先我们要点击前往文件夹并输入这个 /Library/WebServer/Documents/就能找到



#index.html 是一个特殊的 HTML 文件,用于为访问的网站定义其首页。 您可以将其看作是一个入口,通常在网站根目录中找到,用户访问网站时,此文件会自动显示出来,也就是说我们在可在这个文件里编辑内容最终都会显示在我们的屏幕。

第二步:备份 httpd.conf,在终端先输入 cd /etc/apache2 后输入 sudo cp httpd.conf httpd.conf.bak(备份是为了怕失误操作)

第三步: 查看 apache 的 httpd.conf 如何配置 sudo vim httpd.conf

| This is the main Apache HTTP server configuration file. It contains the  configuration directives that give the server its instructions.  See Willhitzly/inttpd.apache.org/docs/2.4/ for detailed information.  Will inttp://inttpd.apache.org/docs/2.4/ mod/directives.intml> for a discussion of each configuration directive.   |
|--|
| Do NOT simply read the instructions in here without understanding what they do. They're here only as hints or reminders. If you are unsure consult the online does. You have been warned consult the online does. You have been warned.  |
| <pre>configuration and logfile mames: If the filenames you specify for many s of the server's control files begin with '' (or 'drives'/ for Win32), the state of the server's control files begin with '' (or 'drives'/ for Win32), the state '', 'the value of Servermon's for the state of the servermon's for the servermon's for the servermon's for the servermon's servermon's servermon's servermon's with Servermon's for the servermon's serv</pre> |
| # ServerRoot: The top of the directory tree under which the server's configuration, error, and log files are kept.   |
| On not add a slash at the end of the directory path. If you point ServerRoot at a non-local disk, be sure to specify a local disk on the Mutex directive, if file-based mutexes are used. If you wish to share the same ServerRoot for multiple httpd deemons, you will need to change at least PidFile.   |
| serverRoot */us*   |
| W Mutex: Allows you to set the mutex mechanism and mutex file directory # for individual mutexes, or change the global defaults  |
| Uncomment and change the directory if mutexes are file-based and the default mutex file directory is not on a local disk or is not appropriate for some other reason.  |
| Mutex default:/private/var/run   |
| # Visten: Allows you to bind Apache to specific IP addresses and/or # ports, instead of the default. See also the <virtualhost> directive.</virtualhost>   |
| Change this to Listen on specific IP addresses as shown below to prevent Apache from glomming onto all bound IP addresses.   |
| Histon 12.34-56.78:80  CITOPIGN SERVER_APP AS_DEFAULT_PORTS> Listen 8080  CITOPIGN SERVER_APP AS_DEFAULT_PORTS>  CITOPIGN SERVER_APP AS_DEFAULT_PORTS>  CITOPIGN SERVER_APP AS_DEFAULT_PORTS>  |
| W Dynamic Shared Object (DSO) Support  |
| I to be able to use the functionality of a module which was built as a 080 you when the corresponding included out in the control of the corresponding included out in the control of the decision of the directives contained in it are actually available _before_ they are used.  |
|  |

第四步: mac 进入 vim 模式,命令行模式后打/DocumentRoot 找到后更改目录地址

```
# DocumentRoot: The directory out of which you will serve your # documents. By default, all requests are taken from this directory, but # symbolic links and aliases may be used to point to other locations. # DocumentRoot "/Library/WebServer/Sites1" < Directory "/Library/WebServer/Sites1" > # 第五步: 然后继续利用命令模式输入/Listen,看到侦听端口,在这里的我的端口是 8080,一般默认端口是 80
```

```
Listen: Allows you to bind Apache to specific IP addresses and/or # ports, instead of the default. See also the <VirtualHost> # directive. # 
# Change this to Listen on specific IP addresses as shown below to # prevent Apache from glomming onto all bound IP addresses. # 
#Listen 12.34.56.78:80 
<IfDefine SERVER_APP_HAS_DEFAULT_PORTS> Listen 8080 
</IfDefine !SERVER_APP_HAS_DEFAULT_PORTS> Listen 80 
</IfDefine>
```

困难:在这边需要了解一下 vim 模式的操作比如 shift+:是命令行模式,i则是 insert 模式可以插入编辑删除信息等

第六步:继续搜索/ServerName 来知道我们的域名,我们可以修改,不改则服务器 IP 为 localhost

```
# ServerName gives the name and port that the server uses to identify itself.
# This can often be determined automatically, but we recommend you specify
# it explicitly to prevent problems during startup.
#
# If your host doesn't have a registered DNS name, enter its IP address here.
# #ServerName www.example.com:80
```

第七步: 因为我们没有修改域名,所以当我们重新用浏览器打开想看是否运行成功的时候,我们就要在浏览器输入 http://localhost/ 则显示 lt Works! 但我们注意到下面还会显示 Hello World! 这是为什么呢? 原因因为我修改 index.html 文件里的内容, 所以就像上面注释写到, 当用户访问网站时, 此文件会自动显示出来。



It works!

Hello world!

总结:由于 mac 自带了 Apache 环境,所以在这次实验我并不需要太麻烦的操作。