# curl的主要使用方法

不指定协议的时候，尝试使用http，ftp等

**掌握curl的要点是学会使用它的可选参数，理解消息头，cookie等，并且注意区分 它的命令的大小写造成的差异**

**最常用的命令：**

-# --progress-bar

-A –user-agent

-b –cookie name=data 使用命令行的cookie

-c --cookie-jar jarfile 保存或使用cookie文件

--compressed 发送压缩的请求，但是保存的是未压缩的

-d --data data 设置post的data

-e -referer <URL> 设置参考的url来源

-G --get 使用get方法

-H --header <header> 设置多余的header参数，例如# curl -H "X-First-Name: Joe" <http://example.com/>

-i --include 显示接收到的header

-I --head 仅仅显示head

-L --location 如果收到30x的消息，就转到目标页面

-o --output file 把网页写到文件中

-s 不显示任何信息（**这个选项应当作为就是具有输出调试程序的标准选项）**

-: --next 使用下一个参数

-0 --http1.0强制使用http1.0代替http1.1

http1.1

# 常用的选项

手机浏览器：

-H 'User-Agent: Mozilla/5.0 (Linux; U; Android 4.4.4; Nexus 5 Build/KTU84P) AppleWebkit/534.30 (KHTML, like Gecko) Version/4.0 Mobile Safari/534.30'

火狐浏览器：

|  |  |
| --- | --- |
|  | -H 'User-Agent: Mozilla/5.0 (Windows NT 10.0; WOW64; rv:47.0) Gecko/20100101 Firefox/47.0'  山寨浏览器:  -H ‘user-agent: UNTRUSTED/1.0’ |

只接受文本消息:

|  |  |
| --- | --- |
| -H 'Accept | : text/plain' |
|  |  |

Accept: text/html,application/xhtml+xml,application/xml;q=0.9,\*/\*;q=0.8

后面的q表示权重系数，0,1之间，0表示完全不接受。accpet的各项之间不必使用空格，而Accept-Encoding: gzip, deflate的各项之间要使用空格；accept的每一项形如:type1/type2[;q=xx] ,\*/\*表示任意文件

Accpet属性：

|  |  |  |
| --- | --- | --- |
| \*.3gpp | audio/3gpp, video/3gpp | 3GPP Audio/Video |
| \*.ac3 | audio/ac3 | AC3 Audio |
| \*.asf | allpication/vnd.ms-asf | Advanced Streaming Format |
| \*.au | audio/basic | AU Audio |
| \*.css | text/css | Cascading Style Sheets |
| \*.csv | text/csv | Comma Separated Values |
| \*.doc | application/msword | MS Word Document |
| \*.dot | application/msword | MS Word Template |
| \*.dtd | application/xml-dtd | Document Type Definition |
| \*.dwg | image/vnd.dwg | AutoCAD Drawing Database |
| \*.dxf | image/vnd.dxf | AutoCAD Drawing Interchange Format |
| \*.gif | image/gif | Graphic Interchange Format |
| \*.htm | text/html | HyperText Markup Language |
| \*.html | text/html | HyperText Markup Language |
| \*.jp2 | image/jp2 | JPEG-2000 |
| \*.jpe | image/jpeg | JPEG |
| \*.jpeg | image/jpeg | JPEG |
| \*.jpg | image/jpeg | JPEG |
| \*.js | text/javascript, application/javascript | JavaScript |
| \*.json | application/json | JavaScript Object Notation |
| \*.mp2 | audio/mpeg, video/mpeg | MPEG Audio/Video Stream, Layer II |
| \*.mp3 | audio/mpeg | MPEG Audio Stream, Layer III |
| \*.mp4 | audio/mp4, video/mp4 | MPEG-4 Audio/Video |
| \*.mpeg | video/mpeg | MPEG Video Stream, Layer II |
| \*.mpg | video/mpeg | MPEG Video Stream, Layer II |
| \*.mpp | application/vnd.ms-project | MS Project Project |
| \*.ogg | application/ogg, audio/ogg | Ogg Vorbis |
| \*.pdf | application/pdf | Portable Document Format |
| \*.png | image/png | Portable Network Graphics |
| \*.pot | application/vnd.ms-powerpoint | MS PowerPoint Template |
| \*.pps | application/vnd.ms-powerpoint | MS PowerPoint Slideshow |
| \*.ppt | application/vnd.ms-powerpoint | MS PowerPoint Presentation |
| \*.rtf | application/rtf, text/rtf | Rich Text Format |
| \*.svf | image/vnd.svf | Simple Vector Format |
| \*.tif | image/tiff | Tagged Image Format File |
| \*.tiff | image/tiff | Tagged Image Format File |
| \*.txt | text/plain | Plain Text |
| \*.wdb | application/vnd.ms-works | MS Works Database |
| \*.wps | application/vnd.ms-works | Works Text Document |
| \*.xhtml | application/xhtml+xml | Extensible HyperText Markup Language |
| \*.xlc | application/vnd.ms-excel | MS Excel Chart |
| \*.xlm | application/vnd.ms-excel | MS Excel Macro |
| \*.xls | application/vnd.ms-excel | MS Excel Spreadsheet |
| \*.xlt | application/vnd.ms-excel | MS Excel Template |
| \*.xlw | application/vnd.ms-excel | MS Excel Workspace |
| \*.xml | text/xml, application/xml | Extensible Markup Language |
| \*.zip | aplication/zip | Compressed Archive |

# 重新连线的代码逻辑

连接上网络的情况下，我们需要确认自身处于可认证的网络内，因此必须访问一个专用的网络，也就是认证页面，这是第一道，确认属于可认证网络

在可认证网络的范围那，每隔一段时间，发送一个请求到一个公用的仅认证的网页可访问的网址，如[www.baidu.com](http://www.baidu.com) 或者m.sm.cn ，如果报告页面找不到或者需要重新定位，就发起认证请求，否则进入下一次检测等待

模块化：

常量：认证网址，用户名，用户密码，公用网址

设置变量inVerifiable ensureVerifiable

代数timeIntval确定时间间隔，函数sleep或者wait用于等待，等待完毕就发出请求。

检测函数对接受到的网页内容进行鉴定，回答是否来确认启动连接函数

连接函数，发送数据进行连接

targetURL1= <http://192.168.52.11/index_1.html>

targetURL2=http://192.168.52.11/cgi-bin/srun\_portal

user=xt

password=1234

sharedURL=m.sm.cn

inVerifiable

ensureVerifiable()

{

curl –head targetURL –o temp.html;

cat temp.html|grep ‘Not Found’

inVerifiable=0;

else ..

}

main()

{

if(inVerifable)

{

sleep timeval;

if(!isConnected())

reconnect()

}

reconnect()

{

curl targetURL –post –data u…

}

可认证检测语句

if curl -G -i 192.168.52.11/index\_1.html -L|grep 'HTTP/1.1 200 OK' ;then echo yes;else echo no;fi

连接检测函数isConnected

if curl -G -i m.sm.cn |grep 'HTTP/1.1 302' ;then echo yes;else echo no;fi

连接发起函数

curl 'http://192.168.52.11/cgi-bin/srun\_portal' -H 'Accept: text/html,application/xhtml+xml,application/xml;q=0.9,\*/\*;q=0.8' -H 'Accept-Encoding: gzip, deflate' -H 'Accept-Language: zh-CN,en-US;q=0.7,en;q=0.3' -H 'Connection: keep-alive' -H 'Content-Type: application/x-www-form-urlencoded' -H 'Cookie: srun\_login=xtw04%7C1234%7C%7C%7C%7C1' -H 'DNT: 1' -H 'Host: 192.168.52.11' -H 'Referer: http://192.168.52.11/srun\_portal\_pc.php?url=&ac\_id=1' -H 'User-Agent: Mozilla/5.0 (Windows NT 10.0; WOW64; rv:47.0) Gecko/20100101 Firefox/47.0' --data 'action=login&username=xtw04%40sam&password=1234&ac\_id=1&type=1&wbaredirect=&mac=&user\_ip=&vrf\_id=0'

# 最终程序

timeVal=10

inVer=0

if curl -G -i 192.168.52.11/index\_1.html -L|grep 'HTTP/1.1 200 OK' ;then inVer=1; fi

if [ inVer –eq 1 ];then

while :

do

if ! curl -G -i m.sm.cn |grep 'HTTP/1.1 302' ;

then

sleep $timeVal;

else

curl 'http://192.168.52.11/cgi-bin/srun\_portal' -H 'Accept: text/html,application/xhtml+xml,application/xml;q=0.9,\*/\*;q=0.8' -H 'Accept-Encoding: gzip, deflate' -H 'Accept-Language: zh-CN,en-US;q=0.7,en;q=0.3' -H 'Connection: keep-alive' -H 'Content-Type: application/x-www-form-urlencoded' -H 'Cookie: srun\_login=xtw04%7C1234%7C%7C%7C%7C1' -H 'DNT: 1' -H 'Host: 192.168.52.11' -H 'Referer: http://192.168.52.11/srun\_portal\_pc.php?url=&ac\_id=1' -H 'User-Agent: Mozilla/5.0 (Windows NT 10.0; WOW64; rv:47.0) Gecko/20100101 Firefox/47.0' --data 'action=login&username=xtw04%40sam&password=1234&ac\_id=1&type=1&wbaredirect=&mac=&user\_ip=&vrf\_id=0'

fi

done

# curl常用参数

**手机版的参数**

-H ‘User-Agent: Mozilla/5.0 (Linux; U; Android 4.4.4; Nexus 5 Build/KTU84P) AppleWebkit/534.30 (KHTML, like Gecko) Version/4.0 Mobile Safari/534.30'

**电脑版的参数**

-H 'User-Agent: Mozilla/5.0 (Windows NT 10.0; WOW64; rv:47.0) Gecko/20100101 Firefox/47.0'

**Accept** -H 'Accept: text/html,application/xhtml+xml,application/xml;q=0.9,\*/\*;q=0.8'

-H 'Accept-Encoding: gzip, deflate'

-H 'Accept-Language: zh-CN,en-US;q=0.7,en;q=0.3'

-H 'Connection: keep-alive'

-H 'Content-Type: application/x-www-form-urlencoded'

-H 'DNT: 1'

-H 'Host: 192.168.52.11'

# python使用httplib2版本