

cURL

cURL?????????????curl?libcurl?????????????????URL??????
cURL????????????????????????????????

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Tips

Cheat Sheet



| hide progress | verbose | extra info | output | timeout |
|---------------------------------------|--|---|-------------------------------------|---------------------------|
| -s | -v --trace-ascii <file> | -w "format" | -O -o <file> | -m <seconds> |
| POST | POST encoded | multipart formpost | PUT | HEAD (ers too) |
| -d "string" -d @file | --data-urlencode "[name]=val" | -F name=value -F name=@file | -T <file> | -I -i |
| custom method | read cookiejar | write cookiejar | send cookies | user-agent |
| -X "METHOD" | -b <file> | -c <file> | -b "c=1; d=2" | -A "string" |
| proxy | add/remove headers | custom address | smaller data | insecure HTTPS |
| -x <host:port> | -H "name: value" -H "name:" | --resolve <host:port:addr> | --compressed | -k |
| Basic auth | follow redirects | parallel | generate code | list options |
| -u user:passwd | -L | -Z | --libcurl <file> | --help |

Options in the integration with Shell

```
CURL_CMD="curl"  
CURL_OPT="-qSfs -m 60"  
CURL_OPT_POST="-qSfs -m 60 -X POST"
```

POST Request

Send an Empty POST Request

```
curl -X POST https://catonmat.net
```

Send a POST Request with Form Data

```
curl -d 'login=emma&password=123' -X POST https://google.com/login
```

GET Request

Send a GET Request and Print the Response to Screen

```
curl https://catonmat.net/api?a=1&b=2
```

Send a GET Request and Save the Response to a File

```
curl -o response.txt https://catonmat.net/api?a=1&b=2
```

Self-Signed Certificate

“Error: curl: (60) SSL certificate problem: unable to get local issuer certificate

? curl ?? HTTPS ?????? self-signed certificate ?????????????????????? curl
???????????????????????????????? curl ????

????????

1. ? Firefox ? Chrome ?????????? CA ?? *.pem
2. curl ?? *.pem CA ??????

```
curl -s -k -H "Host: CA" *.pem
```


| | | |
|--|--|--|
| | | |
|--|--|--|

```
curl --cacert your-server-ca.pem https://your-server-name
```


| | | |
|--|--|--|
| | | |
|--|--|--|

```
# curl -CApath, CA file
```

```
curl --cacert XXX https://your-server-name
```

```
curl: (77) error setting certificate verify locations:
```

CAfile: xxx

CAPATH: /etc/ssl/certs <===

```
# CApath /usr/local/share/ca-certificates.crt , /usr/local/share/certs
```

[illegible]

```
# curl CA file
```

```
cat your-server-ca.pem >> /etc/ssl/certs/ca-certificates.crt
```

```
curl https://your-server-name
```

HTTP Status Codes

"HTTP Status Code" --> A 3 Digit "Server Response" sent by a web server to a client, indicating the request was completed successfully or not.

| 1XX : HTTP Information Code | 3XX : HTTP Redirection Codes | 4XX : HTTP Client Error Codes |
|---|--|---|
| -100 : Continue | -300 : Multiple Choices | -400 : Bad Request |
| -101 : Switching Protocols | -301 : Moved Permanently | -401 : Unauthorized |
| -102 : Processing | -302 : Found | -402 : Payment Required |
| -103 : Checkpoint | -303 : See Other | -403 : Forbidden |
| -122 : Request-URI too Long | -304 : Not Modified | -404 : Not Found |
| | -305 : Use Proxy | -405 : Method Not Allowed |
| 2XX : HTTP Successful Codes | 3XX : HTTP Redirection Codes | 4XX : HTTP Client Error Codes |
| -200 : OK | -306 : Switch Proxy | -406 : Not Acceptable |
| -201 : Created | -307 : Temporary Redirect | -407 : Proxy Authentication Required |
| -202 : Accepted | -308 : Permanent Redirect | -408 : Request Timeout |
| -203 : Non-Authoritative Information | | -409 : Conflict |
| -204 : No Content | 5XX : HTTP Server Error Codes | -410 : Gone |
| -205 : Reset Content | -500 : Internal Server Error | -411 : Length Required |
| -206 : Partial Content | -501 : Not Implemented | -412 : Precondition Failed |
| -207 : Multi-Status | -502 : Bad Gateway | -413 : Request Entity Too Large |
| -208 : Already Reported | -503 : Service Unavailable | -414 : Request URI too long |
| -226 : IM Used | -504 : Gateway Timeout | -415 : Unsupported Media Type |
| | -505 : HTTP Version Not Supported | -416 : Requested Range not Satisfiable |
| Request Methods : | -506 : Variant Also Negotiates | -417 : Expectation Failed |
| -GET : Requests a representation of the specified resource | -507 : Insufficient Storage | -418 : I am a teapot |
| -POST : Requests the server to accept the entity enclosed in the request | -508 : Loop Detected | -422 : Unprocessable Entity |
| -HEAD : Request similar to GET but without the response body | -509 : Bandwidth Limit Exceeded | -423 : Locked |
| -PUT : Requests to store the enclosed entity to supplied URI | -510 : Not Extended | -424 : Failed Dependency |
| -DELETE : Deletes the specified resource | -511 : Network Authentication Required | -425 : Unordered Collection |
| -OPTIONS : Returns the HTTP Methods supported by server for URL Specified | -512 : Network Read Timeout Error | -426 : Upgrade Required |
| -CONNECT : starts a two-way communication with requested resource | -513 : Network Connect Timeout Error | -428 : Precondition Required |
| | | -429 : Too Many Requests |
| | | -431 : Request Header Fields too large |
| | | -444 : No Response |
| | | -449 : Retry With |
| | | -450 : Blocked by Windows Parental Controls |
| | | -451 : Unavailable for Legal Reasons |
| | | -499 : Client Closed Request |

Use a Proxy

```
curl -x username:Password@myproxy.com:8080 https://catonmat.net
```

Download

```
curl --request GET \
--url 'https://www.tenable.com/downloads/api/v2/pages/nessus/files/Nessus-10.5.1-es9.x86_64.rpm' \
--output 'Nessus-10.5.1-es9.x86_64.rpm'
```


Online Tools

More online tools

- [Online CSV Tools](#)
- [Online Time Tools](#)

Get Public IP

```
↔ curl ifconfig.me
```

```
219.68.222.111↵
```

```
↔ curl ifconfig.me/ip
```

```
219.68.222.111↵
```

```
curl ifconfig.co
```

```
curl checkip.amazonaws.com
```

```
curl canihazip.com
```

```
curl ipecho.net/plain
```

```
curl -Ls myip.check.place
```

[rate.sx](#)

[curl-rate.sx.png](#) curl-rate.sx.png is unknown

```
curl rate.sx
```

```
curl rate.sx/btc
```

```
curl rate.sx/btc@3d # for last 3 days
```

```
curl rate.sx/1btc # convert 1 BTC to ?? USD
```

```
curl rate.sx/:help
```

[wttr.in](#)

[curl-wttr.in.png](#) curl-wttr.in.png is unknown

```
curl wttr.in
```

```
curl wttr.in/TaoYuan
```

```
curl wttr.in/:help
```

qrenco.de

[curl-qrenco.de.png](#)

```
curl qrenco.de
curl qrenco.de/www.youtube.com
curl qrenco.de/:help
printf "$@" | curl -F-=\<- qrenco.de
```

0x0.st

[curl-0x0.st.png](#)

```
curl -F 'shorten=https://www.osslab.tw' https://0x0.st
```

Tinyurl.com: short URL from the terminal

```
echo https://URL | xargs -r -l {} curl -s -d url={} -G https://tinyurl{.}com/create.php | \
awk '/indent/ {print substr($2,19,39)}' | sed '2!d' | sed 's/<.*//'
```

Learning cURL

- [Basics of HTTP Requests with cURL: An In-Depth Tutorial](#)
- [Curl Cookbook](#)
- [Httpie](#) - Alternative to Curl