Requisições em API usando o cURL Ricardo Oliveira (TI acessível)

Vídeo: https://www.youtube.com/watch?v=1wbnp4A8_CY

No terminal (prompt de comando), entre com:

curl --help

curl --version

C:\xampp\htdocs>curl --version
curl 7.83.1 (x86_64-pc-win32) libcurl/7.83.1 OpenSSL/3.0.3 (Schannel) zlib/1.2.12 brotli/1.0.9 libidn2/2.3.2 libssh2/1.10.0 nghttp2/1.47.0 libgsasl/1.10.0
Release-Date: 2022-05-11
Protocols: dict file ftp ftps gopher gophers http https imap imaps ldap ldaps mqtt pop3 pop3s rtsp scp sftp smb smbs smtp smtps telnet tftp
Features: alt-svc AsynchDNS brotli gsasl HSTS HTTP2 HTTPS-proxy IDN IPv6 Kerberos Largefile libz MultiSSL NTLM SPNEGO SSL SSPI TLS-SRP UnixSockets

curl -V

C:\xampp\htdocs>curl -V
curl 7.83.1 (x86_64-pc-win32) libcurl/7.83.1 OpenSSL/3.0.3 (Schannel) zlib/1.2.12 brotli/1.0.9 libidn2/2.3.2 libssh2/1.10.0 nghttp2/1.47.0 libgsasl/1.10.0
Release-Date: 2022-05-11
Protocols: dict file ftp ftps gopher gophers http https imap imaps ldap ldaps mqtt pop3 pop3s rtsp scp sftp smb smtp smtps telnet tftp
Features: alt-svc AsynchDNS brotli gsasl HSTS HTTP2 HTTPS-proxy IDN IPv6 Kerberos Largefile libz MultiSSL NTLM SPNEGO SSL SSPI TLS-SRP UnixSockets

GET

Fazendo uma consulta com o cURL:

curl http://viacep.com.br/ws/53425410/json

```
C:\xampp\htdocs\requisicoes_curl>curl http://viacep.com.br/ws/53425410/json
{
    "cep": "53425-410",
    "logradouro": "Rua da Palma",
    "complemento": "",
    "bairro": "Nossa Senhora da Conceição",
    "localidade": "Paulista",
    "uf": "PE",
    "ibge": "2610707",
    "gia": "",
    "ddd": "81",
    "siafi": "2513"
}
C:\xampp\htdocs\requisicoes_curl>
```

Utilizando o pipe para alterar a saída da resposta recebida

Dessa forma, por exemplo, é possível redirecionar a saída (response) para um arquivo de texto.

curl http://viacep.com.br/ws/53425410/json > info_cep.txt

```
C:\xampp\htdocs\requisicoes_curl>curl http://viacep.com.br/ws/53425410/json > info_cep.txt
% Total % Received % Xferd Average Speed Time Time Time Current
                                                                            Time Current
Left Speed
                                      Dload Upload
                                                  0
                                        781
C:\xampp\htdocs\requisicoes_curl>dir
O volume na unidade C é win10
O Número de Série do Volume é DEB0-7288
Pasta de C:\xampp\htdocs\requisicoes_curl
26/05/2022 05:57
                        <DIR>
26/05/2022
                        <DIR>
26/05/2022 05:57
                                     231 info cep.txt
                 1 arquivo(s)
                                            231 bytes
                                121.723.609.088 bytes disponíveis
                 2 pasta(s)
```

info_cep.txt

```
info_cep.txt 🖸
  1
      1
        "cep": "53425-410",
        "logradouro": "Rua da Palma",
  3
        "complemento": "",
  4
        "bairro": "Nossa Senhora da Conceição",
  5
        "localidade": "Paulista",
  6
        "uf": "PE",
        "ibge": "2610707",
  8
        "gia": "",
  Q
        "ddd": "81",
        "siafi": "2513"
 11
 12
```

POST

É possível passar dados no corpo da requisição (body) ou no cabeçalho da requisição (header).

Para passar no body usa-se -d. Para passar no header usa-se -H.

https://jsonplaceholder.typicode.com\users

```
C
                         jsonplaceholder.typicode.com/users
     // 20220526062132
      // https://jsonplaceholder.typicode.com/users
3
4 ×
       "id": 1,
5 .
5
          "name": "Leanne Graham",
8
          "username": "Bret",
          "email": "Sincore@april.biz",
9
         "address": {
18 .
            "street": "Kulas Light",
11
12
           "suite": "Apt. 556",
13
           "city": "Gwenbarough"
           "zipcode": "92998-3874",
14
15 .
           "geo": (
             "lat": "-37.3159",
16
17
             "lng": "81.1496"
           3
18
19
28
         "phone": "1-778-736-8831 x56442",
21
         "website": "hildegard.org",
22 .
         "company": {
            "name": "Romaguera-Croma",
23
           "catchPhrase": "Multi-layered client-server neural-net",
24
25
           "bs": "harness real-time e-markets"
26
27
        1,
28 . .
         "id": 2,
29
         "name": "Ervin Howell",
38
31
          "username": "Antonette",
         "email": "Shanna@melissa.tv",
32
         "address": (
33 +
           "street": "Victor Plains",
34
35
           "suite": "Suite 879",
36
           "city": "Wisokyburgh"
           "zipcode": "90566-7771",
37
           "geo": {
    "lat": "-43.9589",
38 . .
39
48
             "Ing": "-34.4618"
41
           7
42
         "phone": "810-692-6593 x89125",
43
         "website": "anastasia.net",
44
45 +
         "company": (
            "name": "Deckow-Crist",
46
           "catchPhrase": "Proactive didactic contingency",
47
           "bs": "synergize scalable supply-chains"
48
49
```

.

```
190
        "id": 9,
          "name": "Glenna Reichert",
          "username": "Delphine",
192
          "email": "Chaim_McDermott@dama.io",
193
          "address": {
194 +
195
            "street": "Dayna Park",
         "street "Suite 449",
196
           "city": "Bartholomebury", 
"zipcode": "76495-3189",
197
198
           "goo": (
199 +
          "lng": "-168.8889"
200
283
            7
262
283
284
          "phone": "(775)976-6794 x41286",
         "website": "conrad.con",
205
        "company": {
286 +
           "name": "Yost and Sons",
"catchPhrase": "Switchable contextually-based project",
287
268
            "bs": "aggregate real-time technologies"
289
211
       "id": 10,
212 +
213
214
          "name": "Clementina DuBuque",
          "username": "Moriah.Stanton"
215
          "email": "Rey.Padberg@karina.biz",
216
         "address": (
217 .
            "street": "Kattic Turnpike",
218
219
           "suite": "Suite 198",
            "city": "Lebsackbury"
220
           "zipcode": "31428-2261",
221
           "geo": (
222 +
           "lat": "-38.2386",
"lng": "57.2232"
223
225
            1
226
        "phone": "824-648-3884", 
"website": "ambrose.net",
227
228
         "company": {
          "name": "Hoeger LLC",
"catchPhrase": "Centralized enpowering task-force",
238
231
            "bs": "target end-to-end models"
232
233
```

curl -X POST -H "Content-Type: application/json" -d "{\"name\":\"ricardo oliveira\",\"username\":\"visaodedev\"}" https://jsonplaceholder.typicode.com/users

-X especifica o verbo HTTP.

```
C:\xampp\htdocs\requisicoes_curl>curl -X POST -H "Content-Type: application/json" -d "{\"name\":\"ricardo oliveira\",\"username\":\"visaodedev\"}" https://jsonplaceholder.typicode.com/users
{
    "name": "ricardo oliveira",
    "username": "visaodedev",
    "id": 11
}
C:\xampp\htdocs\requisicoes_curl>
```

Passando a informação no body via arquivo de texto

request.txt

curl -X POST -H "Content-Type: application/json" -d "@request.txt" https://jsonplaceholder.typicode.com/users

```
C:\xampp\htdocs\requisicoes_curl>curl -X POST -H "Content-Type: application/json" -d "@request.txt" https://jsonplaceholder.typicode.com/users
{
    "name": "ricardo oliveira",
    "username": "visaodedev",
    "id": 11
}
C:\xampp\htdocs\requisicoes_curl>
```

Recebendo a resposta em um arquivo de texto

curl -X POST -H "Content-Type: application/json" -d "@request.txt" https://jsonplaceholder.typicode.com/users > response.txt

```
response txt 2

1 {
2    "name": "ricardo oliveira",
3    "username": "visaodedev",
4    "id": ll
5 }
```