

\$ curl https://example.com -v

The **curl** command to send a request to a server directly via the command line.

* The **-v** flag stands for "verbose", to show ALL the data!

```
* Rebuilt URL to: https://example.com/
* timeout on name lookup is not supported
* Trying 93.184.216.34...
% Total    % Received % Xferd  Average Speed   Time    Time     Time  Current
                                 Dload  Upload   Total   Spent    Left   Speed
0   0    0     0     0      0     0      0      0  --:--:--  --:--:--  --:--:--    0* Connected to example.com (93.184.216.34) port 443 (#0)
0   0    0     0     0      0     0      0      0  --:--:--  --:--:--  --:--:--    0* ALPN, offering http/1.1
* Cipher selection: ALL:!EXPORT:!EXPORT40:!EXPORT56:1aNULL:1LOW:1RC4:@STRENGTH
* successfully set certificate verify locations:
*   CAfile: C:/Users/Liz/AppData/Local/Programs/Git/mingw64/ssl/certs/ca-bundle.crt
*   Caphath: C:/Users/Liz/cacert.pem
* TLSv1.2 (OUT), TLS header, Certificate Status (22):
} [5 bytes data]
* TLSv1.2 (OUT), TLS handshake, Client hello (1):
} [512 bytes data]
* TLSv1.2 (IN), TLS handshake, Server hello (2):
{ [104 bytes data]
* TLSv1.2 (IN), TLS handshake, Certificate (11):
{ [2744 bytes data]
* TLSv1.2 (IN), TLS handshake, Server key exchange (12):
{ [333 bytes data]
* TLSv1.2 (IN), TLS handshake, Server finished (14):
{ [4 bytes data]
* TLSv1.2 (OUT), TLS handshake, Client key exchange (16):
} [70 bytes data]
* TLSv1.2 (OUT), TLS change cipher, Client hello (1):
} [1 bytes data]
* TLSv1.2 (OUT), TLS handshake, Finished (20):
} [16 bytes data]
* TLSv1.2 (IN), TLS change cipher, Client hello (1):
{ [1 bytes data]
* TLSv1.2 (IN), TLS handshake, Finished (20):
{ [16 bytes data]
* SSL connection using TLSv1.2 / ECDHE-RSA-AES128-GCM-SHA256
* ALPN, server accepted to use http/1.1
* Server certificate:
*   subject: C=US; ST=California; L=Los Angeles; O=Internet Corporation for Assigned Names and Numbers; OU=Technology; CN=www.example.org
*   start date: Nov  3 00:00:00 2015 GMT
*   expire date: Nov 28 12:00:00 2018 GMT
*   subjectAltName: example.com matched
*   issuer: C=US; O=DigiCert Inc; OU=www.digicert.com; CN=DigiCert SHA2 High Assurance Server CA
*   SSL certificate verify ok.
} [5 bytes data]
```

```
> GET / HTTP/1.1
> Host: example.com
> User-Agent: curl/7.45.0
> Accept: */*
>
```

Request headers

Extra info sent from the **CLIENT** to the server.

Example: what data format the client wants; whether the client is a web browser, desktop or mobile phone, etc.

```
{ [5 bytes data]
< HTTP/1.1 200 OK
< Cache-Control: max-age=604800
< Content-Type: text/html
< Date: Fri, 01 Jun 2018 20:43:34 GMT
< Etag: "1541025663+ident"
< Expires: Fri, 08 Jun 2018 20:43:34 GMT
< Last-Modified: Fri, 09 Aug 2013 23:54:35 GMT
< Server: ECS (oxr/8314)
< Vary: Accept-Encoding
< X-Cache: HIT
< Content-Length: 1270
<
```

Response headers

Extra info sent from the **SERVER** to the client.

Example: the data format of the data sent by the server; the date and time that the data was sent; more server info.

```
{ [5 bytes data]
100 1270 100 1270 0 0 1113 0 0:00:01 0:00:01 --:--:-- 1113
```

```
<!doctype html>
<html>
<head>
  <title>Example Domain</title>
  <meta charset="utf-8" />
  <meta http-equiv="Content-type" content="text/html; charset=utf-8" />
  <meta name="viewport" content="width=device-width, initial-scale=1" />
  <style type="text/css">
    body {
      background-color: #f0f0f2;
      margin: 0;
      padding: 0;
      font-family: "Open Sans", "Helvetica Neue", Helvetica, Arial, sans-serif;
    }
    div {
      width: 600px;
      margin: 5em auto;
      padding: 50px;
      background-color: #fff;
      border-radius: 1em;
    }
    a:link, a:visited {
      color: #38488f;
      text-decoration: none;
    }
    @media (max-width: 700px) {
      body {
        background-color: #fff;
      }
      div {
        width: auto;
        margin: 0 auto;
        border-radius: 0;
        padding: 1em;
      }
    }
  </style>
</head>
<body>
<div>
  <h1>Example Domain</h1>
  <p>This domain is established to be used for illustrative examples in
documents. You may use this domain in examples without prior coordination
or asking for permission.</p>
  <p><a href="http://www.iana.org/domains/example">More information...
  </a></p>
</div>
</body>
</html>
```

Response Body

The data that the server sends back to the client.

In this case, it's the HTML file for the homepage of example.com