




# cURL




cURL ( Client URL )   
 API 

HTTP/HTTPS/FTP/SFTP

## 1.

### GET

```
curl https://example.com
```

- 
-  

```
curl "https://example.com/api?param1=value1&param2=value2"
```

### POST

```
curl -X POST https://example.com/api \  
-d "key1=value1&key2=value2"
```

-  **JSON**  

```
curl -X POST https://example.com/api \  
-H "Content-Type: application/json" \  
-d '{"key1":"value1", "key2":"value2"}'
```

## 2.



# Header

```
curl -H "Authorization: Bearer token123" \  
-H "User-Agent: MyApp/1.0" \  
https://example.com/api
```



## Headers

```
curl -I https://example.com # Headers
```

## 3. &



```
curl -X POST https://example.com/upload \  
-F "file=@/path/to/file.txt" \  
-F "name=myfile"
```

- F multipart/form-data



```
curl -O https://example.com/file.zip #  
curl -o custom_name.zip https://example.com/file.zip #
```

## 4. & Cookies

### Basic Auth

```
curl -u username:password https://example.com
```

- `curl -u username https://example.com`

```
curl -u username https://example.com
```

## Cookie

```
curl --cookie "name=value" https://example.com
```

- `curl -c cookies.txt https://example.com/login`

```
curl -c cookies.txt https://example.com/login
```

- `curl -b cookies.txt https://example.com/dashboard`

```
curl -b cookies.txt https://example.com/dashboard
```

## 5. `&`

```
curl -v https://example.com # Headers
```

```
curl -v https://example.com # Headers & curl --trace-ascii debug.txt https://example.com # Headers
```

```
curl -L https://example.com # Headers
```

```
curl -L https://example.com # Headers
```

```
curl --limit-rate 100K -O https://example.com/largefile.zip
```

```
curl --limit-rate 100K -O https://example.com/largefile.zip
```

- `100K` = 100KB/s `M` (MB/s) `G` (GB/s)

## 6. `curl`

### HTTP/HTTPS `curl`

```
curl -x http://proxy-server:8080 https://example.com
```

- `curl` `curl`

```
curl -x http://user:pass@proxy-server:8080 https://example.com
```

### SOCKS5 `curl`

```
curl --socks5 127.0.0.1:1080 https://example.com
```

## 7. `curl`

## Bash `curl`

```
response=$(curl -s https://example.com/api)
echo "$response"
```

- `-s` `curl`

## 8. `curl`

### `curl` API `curl`

```
curl -s -o /dev/null -w "%{http_code}" https://example.com/api
```

- `-o /dev/null` `curl`
- `-w "%{http_code}"` `curl` HTTP `curl`



# API



```
curl -w "DNS: %{time_namelookup} | Connect: %{time_connect} | Total: %{time_total}\n" \
-o /dev/null -s https://example.com
```



| GET         | EXAMPLE   |
|-------------|---|
| <b>GET</b>  | curl https://example.com                                      |
| <b>POST</b> | curl -X POST -d "data" https://example.com/api                |
| <b>JSON</b> | curl -H "Content-Type: application/json" -d '{"key":"value"}' |
| FILE        | curl -O https://example.com/file.zip                          |
| UPLOAD      | curl -F "file=@localfile.txt" https://example.com/upload      |
| AUTH        | curl -u user:pass https://example.com                         |
| PROXY       | curl -x http://proxy:8080 https://example.com                 |
| VERBOSE     | curl -v https://example.com                                   |

cURL

API

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