

 무료 전자 책

배우기

HTTP

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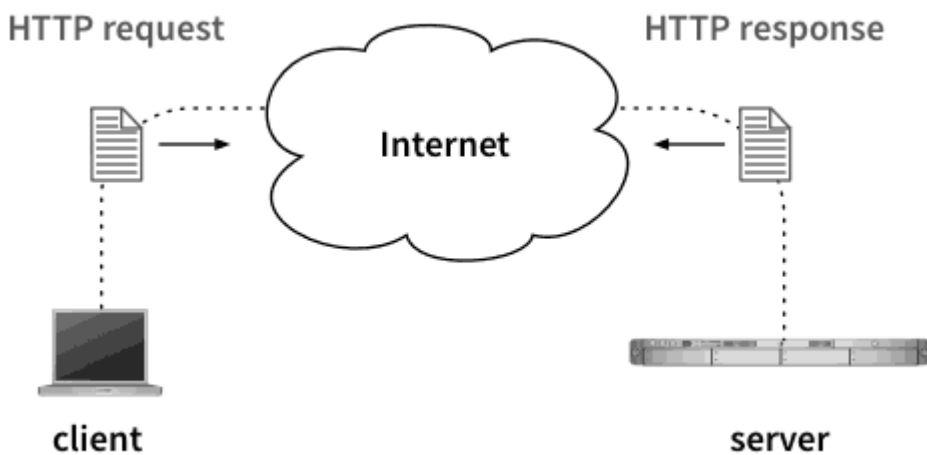
1: HTTP

HTTP ([Hypertext Transfer Protocol](#)) / . HTTP . TCP , .

)	
HTTP / 0.9	" "	1991-01-01
HTTP / 1.0	HTTP / 1.0 , RFC	1992-01-01
HTTP / 1.0 ^{r1}	HTTP RFC	1996-05-01
HTTP / 1.1	,	1997-01-01
HTTP / 1.1 ^{r1}	,	1999-06-01
HTTP / 1.1 ^{r2}		2014-06-01
HTTP / 2	HTTP / 2	2015-05-01

Examples

HTTP



HTTP HTTP HTTP HTTP HTTP .

HTTP . HTTP .

HTTP / 1.0

HTTP / 1.0 [RFC 1945](#) .

HTTP / 1.0 Host .

HTTP / 1.1 (:) HTTP / 1.0 (:).

```
GET / HTTP/1.0
User-Agent: example/1

HTTP/1.0 200 OK
Content-Type: text/plain

Hello
```

HTTP / 1.1

HTTP / 1.1 RFC 2616 () RFC 2617 () 1999 .

RFC2616 . , ().

- [Nottingham, HTTP WG](#)

HTTP / 1.1 RFC 723x .

- [RFC 7230](#) :
- [RFC 7231](#) :
- [RFC 7232](#) :
- [RFC 7233](#) :
- [RFC 7234](#) :
- [RFC 7235](#) :

HTTP / 1.1 .

-
- TCP / IP (HTTP / 1.0)
- ,
- .

HTTP / 1.1 HTTP - . .

```
GET / HTTP/1.0
User-Agent: example/1
Host: example.com

HTTP/1.0 200 OK
Content-Type: text/plain
Content-Length: 6
Connection: close

Hello
```

HTTP / 2

HTTP / 2 ([RFC 7540](#)) HTTP - . HTTP / 2 ([HPACK](#)).

TCP / IP .

HTTP / 2 HTTP HTTP / 1.1 2 .

HTTP / 0.9

HTTP 0.9 " [HTTP As Implemented](#) ". 0.9 " HTTP [ie 1.0] ". 0.9 1.0 .

0.9 . CRLF GET URL . HTML . . . [<isindex>](#) HTML .

HTTP / 0.9 . [ftp](#) .

HTTP : <https://riptutorial.com/ko/http/topic/984/http->

2: API HTTP

HTTP API HTTP JSON XML .

Examples

. API POST PUT .

201 Created. .

, API / .

```
POST /employees HTTP/1.1
Host: example.com
Content-Type: application/json

{
  "name": "Charlie Smith",
  "age": 38,
  "job_title": "Software Developer",
  "salary": 54895.00
}
```

```
HTTP/1.1 201 Created
Location: /employees/1/charlie-smith
Content-Type: application/json

{
  "employee": {
    "name": "Charlie Smith",
    "age": 38,
    "job_title": "Software Developer",
    "salary": 54895.00
    "links": [
      {
        "uri": "/employees/1/charlie-smith",
        "rel": "self",
        "method": "GET"
      },
      {
        "uri": "/employees/1/charlie-smith",
        "rel": "delete",
        "method": "DELETE"
      },
      {
        "uri": "/employees/1/charlie-smith",
        "rel": "edit",
        "method": "PATCH"
      }
    ]
  },
  "links": [
    {
      "uri": "/employees",
      "rel": "create",

```

```
    "method": "POST"
  }
]
}
```

JSON links URI .

API . POST, PUT PATCH . POST PUT PATCH .

200 OK, 202 Accepted . .

PUT PUT . , v f} . [RFC7231](#)

- .
- PUT .
- () 415 Unsupported Media Type .

JSON HAL ...

```
{
  "name": "Charlie Smith",
  "age": 39,
  "job_title": "Software Developer",
  "_links": {
    "self": { "href": "/users/1234" },
    "employee": { "href": "http://www.acmee.com" },
    "curies": [{ "name": "ea", "href": "http://www.acmee.com/docs/rels/{rel}", templated":
true}],
    "ea:admin": [
      "href": "/admin/2",
      "title": "Admin"
    ]
  }
}
```

... .

```
PUT /users/1234 HTTP/1.1
Host: http://www.acmee.com
Content-Type: "application/json; charset=utf-8"
Content-Length: 85
User-Agent: Mozilla/4.0 (compatible; MSIE5.01; Windows NT)

{
  "name": "Charlie Gold-Smith",
  "age": 40,
  "job_title": "Senior Software Developer"
}
```

content-type application/hal+json application/json JSON JSON HAL 415 Unsupported Media Type .

. GET .

```
GET /users/1234 HTTP/1.1
Host: http://www.acmee.com
Accept-Encoding: gzip, deflate
Accept-Language: en-us
User-Agent: Mozilla/4.0 (compatible; MSIE5.01; Windows NT)
ETag: "e0023aa4e"
```

```
{
  "name": "Charlie Gold-Smith",
  "age": 40,
  "job_title": "Senior Software Developer"
}
```

```
GET /users/1234 HTTP/1.1
Host: http://www.acmee.com
Accept-Encoding: gzip, deflate
Accept-Language: en-us
User-Agent: Mozilla/4.0 (compatible; MSIE5.01; Windows NT)
ETag: e0023aa4e
```

```
{
  "name": "Charlie Gold-Smith",
  "age": 40,
  "job_title": "Senior Software Developer",
  "_links": {
    "self": { "href": "/users/1234" },
    "employee": { "href": "http://www.acmee.com" },
    "curies": [{ "name": "ea", "href": "http://www.acmee.com/docs/rels/{rel}", templated": true}],
    "ea:admin": [
      {
        "href": "/admin/2",
        "title": "Admin"
      }
    ]
  }
}
```

PUT (idempotent) ! [RFC7231](#) .

PUT . URI "()" URI (). "URI PUT .

[RFC7231](#) .

(: [RFC5789](#) PATCH) .

- PUT .
- PATCH .

```

GET /users/1234 HTTP/1.1
Host: http://www.acmee.com
Accept: application/hal+json; charset=utf-8
Accept-Encoding: gzip, deflate
Accept-Language: en-us
User-Agent: Mozilla/4.0 (compatible; MSIE5.01; Windows NT)
ETag: "e0023aa4e"

{
  "name": "Charlie Gold-Smith",
  "age": 40,
  "job_title": "Senior Software Developer",
  "_links": {
    "self": { "href": "/users/1234" },
    "employee": { "href": "http://www.acmee.com" },
    "curies": [{ "name": "ea", "href": "http://www.acmee.com/docs/rels/{rel}", templated":
true}],
    "ea:admin": [
      "href": "/admin/2",
      "title": "Admin"
    ]
  },
  "_embedded": {
    "ea:address": {
      "street": "Terrace Drive, Central Park",
      "zip": "NY 10024",
      "city": "New York",
      "country": "United States of America",
      "_links": {
        "self": { "href": "/address/abc" },
        "google_maps": { "href": "http://maps.google.com/?ll=40.7739166,-73.970176" }
      }
    }
  }
}

```

```

PUT /address/abc HTTP/1.1
Host: http://www.acmee.com
Content-Type: "application/json; charset=utf-8"
Content-Length: 109
User-Agent: Mozilla/4.0 (compatible; MSIE5.01; Windows NT)

{
  "street": "Standford Ave",
  "zip": "CA 94306",
  "city": "Pablo Alto",
  "country": "United States of America"
}

```

GET .

```

GET /users/1234 HTTP/1.1
Host: http://www.acmee.com
Accept: application/hal+json; charset=utf-8

```

```
Accept-Encoding: gzip, deflate
Accept-Language: en-us
User-Agent: Mozilla/4.0 (compatible; MSIE5.01; Windows NT)
ETag: "e0023aa4e"
```

```
{
  "name": "Charlie Gold-Smith",
  "age": 40,
  "job_title": "Senior Software Developer",
  "_links": {
    "self": { "href": "/users/1234" },
    "employee": { "href": "http://www.acmee.com" },
    "curies": [{ "name": "ea", "href": "http://www.acmee.com/docs/rels/{rel}", templated":
true}],
    "ea:admin": [
      "href": "/admin/2",
      "title": "Admin"
    ]
  },
  "_embedded": {
    "ea:address": {
      "street": "Standford Ave",
      "zip": "CA 94306",
      "city": "Pablo Alto",
      "country": "United States of America"
    },
    "_links": {
      "self": { "href": "/address/abc" },
      "google_maps": { "href": "http://maps.google.com/?ll=37.4241311,-122.1524475"
    }
  }
}
```

PATCH [RFC5789](#) HTTP . PATCH .

PATCH Request-URI . "" .

A B .

JSON [JSON](#) .

JSON PATCH .

```
PATCH /users/1234 HTTP/1.1
Host: http://www.acmee.com
Content-Type: application/json-patch+json; charset=utf-8
Content-Length: 188
Accept: application/json
If-Match: "e0023aa4e"

[
  { "op": "replace", "path": "/age", "value": 40 },
  { "op": "replace", "path": "/job_title", "value": "Senior Software Developer" },
  { "op": "add", "path": "/salery", "value": 63985.00 }
]
```

PATCH API .

```

HTTP/1.1 200 OK
Location: /users/1234
Content-Type: application/json
ETag: "df00eb258"

{
  "name": "Charlie Smith",
  "age": 40,
  "job_title": "Senior Software Developer",
  "salary": 63985.00
}

```

200 OK .

() ETag, If-Match If-Unmodified-Since .

PATCH .

	400 Bad Request
	415 Unsupported Media Type
, resoure	422 Unprocessable Entity
	404 Not Found
, ()	409 Conflict
, If-Match If-Unmodified-Since If-Match .	412 Precondition Failed 409 Conflict
, PATCH	409 Conflict

HTTP API . DELETE .

200 OK . .

Charlie Smith .

```

DELETE /employees/1/charlie-smith HTTP/1.1
Host: example.com

```

```

HTTP/1.1 200 OK
Content-Type: application/json

{
  'links': [
    {
      'uri': '/employees',
      'rel': 'create',
      'method': 'POST'
    }
  ]
}

```

```
]
}
```

HTTP API . GET .

200 OK .

```
GET /employees HTTP/1.1
Host: example.com
```

```
HTTP/1.1 200 OK
Content-Type: application/json
```

```
{
  'employees': [
    {
      'name': 'Charlie Smith',
      'age': 39,
      'job_title': 'Software Developer',
      'salary': 63985.00
      'links': [
        {
          'uri': '/employees/1/charlie-smith',
          'rel': 'self',
          'method': 'GET'
        },
        {
          'uri': '/employees/1/charlie-smith',
          'rel': 'delete',
          'method': 'DELETE'
        },
        {
          'uri': '/employees/1/charlie-smith',
          'rel': 'edit',
          'method': 'PATCH'
        }
      ]
    },
    {
      'name': 'Donna Prima',
      'age': 30,
      'job_title': 'QA Tester',
      'salary': 77095.00
      'links': [
        {
          'uri': '/employees/2/donna-prima',
          'rel': 'self',
          'method': 'GET'
        },
        {
          'uri': '/employees/2/donna-prima',
          'rel': 'delete',
          'method': 'DELETE'
        },
        {
          'uri': '/employees/2/donna-prima',

```

```
        'rel': 'edit',
        'method': 'PATCH'
    }
]
},
'links': [
    {
        'uri': '/employees/new',
        'rel': 'create',
        'method': 'PUT'
    }
]
}
```

API HTTP : <https://riptutorial.com/ko/http/topic/3423/api-http>

3: HTTP

HTTP . RFC 7231 sec. 6 : "status-code 3 ."

000 999 . 100 599 .

HTTP / 1.1 (HTTP) HTTP .

.

- 1xx
- 2xx
- 3xx - .
- 4xx -
- 5xx - .

.

Examples

500

HTTP 500 . () 500 . .

:

```
HTTP/1.1 500 Internal Server Error
```

404

HTTP 404 Not Found URI .

```
HTTP/1.1 404 Not Found
```

(HTTP 403).

, Microsoft IIS 404.0 (0) . 404.5-404.19 . [Microsoft](#) .

403 Forbidden . /admin 403 .

```
GET /admin HTTP/1.1  
Host: example.com
```

```
HTTP/1.1 403 Forbidden
```

200 HTTP . HTTP .

HTTP/1.1 200 OK

OK . () . 201 No Content .

If-None-Match If-Modified-Since If-None-Match

304 Not Modified .

, If-Modified-Since: Fri, 22 Jul 2016 14:34:40 GMT HTTP/1.1 304 Not Modified HTTP/1.1 304 Not Modified .

10 HTTP

2xx

- **200 OK** - HTTP .
- **201 Created** - .
- **204** - .

3xx

- **304 Not Modified** - If-Modified-Since If-None-Match .

4xx

- **400 Bad Request** - (: , ,) .
- **401 Unauthorized** - 403 . WWW-Authenticate .
- **403** - . .
- **404** - . .
- **409 Conflict** - .

5xx

- **500** - .

HTTP : <https://riptutorial.com/ko/http/topic/2577/http-->

4: HTTP

HTTP	
OPTIONS	URI () .
GET	URI URI .
HEAD	GET . .
POST	URI () . .
PUT	URI .
DELETE	URI .
TRACE	: HTTP 200 (OK) .

CONNECT (: SSL) .

Examples

Telnet HTTP

HTTP HTTP HTTP .

Telnet HTTP .

1. 80 www.example.org .

```
telnet www.example.org 80
```

.

```
Connected to www.example.org.  
Escape character is '^]'.  
.
```

2. GET URL / HTTP 1.1 ,

```
GET / HTTP/1.1
```

3. HTTP HTTP 1.1 URL .

```
Host: www.example.org
```

4. .

HTTP .

200 OK HTTP . HTTP , HTML .

```
$ telnet www.example.org 80
Trying 2606:2800:220:1:248:1893:25c8:1946...
Connected to www.example.org.
Escape character is '^]'.
GET / HTTP/1.1
Host: www.example.org

HTTP/1.1 200 OK
Accept-Ranges: bytes
Cache-Control: max-age=604800
Content-Type: text/html
Date: Thu, 21 Jul 2016 15:56:05 GMT
Etag: "359670651"
Expires: Thu, 28 Jul 2016 15:56:05 GMT
Last-Modified: Fri, 09 Aug 2013 23:54:35 GMT
Server: ECS (lga/1318)
Vary: Accept-Encoding
X-Cache: HIT
x-ec-custom-error: 1
Content-Length: 1270

<!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" />
</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>
```

(HTML style .)

HTTP 1.1 HTTP Host .

```
GET /search HTTP/1.1 \r\n
Host: google.com \r\n
\r\n
```

Method Request-URI HTTP-Version CRLF

Method HTTP Method . [1] [2] :

- OPTIONS
- GET
- HEAD
- POST
- PUT
- DELETE
- PATCH
- TRACE
- CONNECT

Request-URI **URI** . . .

- **scheme, host, (optional) port path** **URI**;
- Host Host

HTTP-Version **HTTP** HTTP-Version . **HTTP 1.1** HTTP/1.1 .

\r\n .

HTTP (") . . .

Host , User-Agent Referer .

```
GET /search HTTP/1.1 \r\n
Host: google.com \r\n
User-Agent: Chrome/54.0.2803.1 \r\n
Referer: http://google.com/ \r\n
\r\n
```

HTTP 1.1 . . :

- Host - **URL** (**HTTP / 1.1**)
- User-Agent - .
- Referer - **URI**.
- If-Modified-Since - .

Name: Value CRLF . Name User-Agent . Value **CRLF** . , !#\$%&'*+-.^_`|~ _ `!#\$%&'*+-.^_`|~
(RFC 7230 3.2.6) .

Referer **RFC1945** 'referrer' .

HTTP . . **POST PATCH PUT** .

Content-Length .

CRLF . **PUT** .

```
PUT /files/129742 HTTP/1.1\r\n
Host: example.com\r\n
User-Agent: Chrome/54.0.2803.1\r\n
Content-Length: 202\r\n
\r\n
This is a message body. All content in this message body should be stored under the
```

/files/129742 path, as specified by the PUT specification. The message body does not have to be terminated with CRLF.

HEAD TRACE .

HTTP : <https://riptutorial.com/ko/http/topic/2909/http->

5: HTTP

	- -
100	- .
101	- .
200	- .
201	Created - Location URI .
202	- .
203	- . .
204	- 200 (OK) .
205	- 204 () .
206	- Range 200 (OK) .
300	- URI URI .
301	- URI Location URI .
302	Found - URI . Location URI .
303	- 302 (Found) URI . URI GET .
304	- If-Modified-Since . .
305	- Location .
307	- 302 (Found) HTTP 1.0 307 .
400	- .
401	Unauthorized - . Authorization .
402	- .
403	- . .
404	- URI . 403 .
405	- (HTTP) . Allow .
406	- .

	- -
407	- 401 (Unauthorized) .
408	Request Timeout - .
409	- .
410	- 404 () . .
411	Length Required - Content-Length .
412	Precondition Failed - .
413	Request Entity Too Large - .
414	Request-URI - Request-URI .
415	- MIME .
416	Requested Range Not Satisfiable - .
417	Expectation Failed - Expect .
500	- .
501	- . .
502	- .
503	Service Unavailable () - .
504	- .
505	HTTP - HTTP .

Examples

HTTP [HTTP](#) . HTTP 1.1 . .

```
HTTP/1.1 200 OK \r\n
```

```
HTTP/1.1 404 Not Found \r\n
```

```
HTTP/1.1 503 Service Unavailable \r\n
```

HTTP 1.1 .

```
HTTP-Version Status-Code Reason-Phrase CRLF
```


HTTP-Version HTTP . HTTP 1.1 HTTP/1.1 .

Status-Code 3 . [5] .

- 1xx - .
- 2xx - .
- 3xx **Redirection ()** - .
- 4xx **Client Errors** -
- 5xx - .

Reason-Phrase . , 200 OK . (404 Not Found . , HTTP .

\r\n .

HTTP HTTP .

§6.2 . .

- Server `User-Agent` .
- Location , URI 201 3xx .
- ETag .

Name: Value CRLF

Name ETag Location Value . CRLF .

```
HTTP/1.1 201 Created \r\n
Server: WEBrick/1.3.1 \r\n
Location: http://example.com/files/129742 \r\n
```

HTTP . . , GET 200 OK . (, 204 No Content .)

CRLF . , Content-Length . GET .

```
HTTP/1.1 200 OK\r\n
Server: WEBrick/1.3.1\r\n
Content-Length: 39\r\n
ETag: 4f7e2ed02b836f60716a7a3227e2b5bda7ee12c53be282a5459d7851c2b4fdfd\r\n
\r\n
Nobody expects the Spanish Inquisition.
```

HTTP : <https://riptutorial.com/ko/http/topic/3077/http->

6: HTTP

URL HTTP .

HTTP [RFC 7234](#) .

- - . .
- - . .
- . , HTTP URL Vary .
- **revalidation** - . If-Modified-Since If-None-Match 304 .
- - (:) . .
- - (:) . .

Examples

1

```
Cache-Control: public, max-age=31536000
```

public (). max-age . 31536000 = 60 * 60 * 24 * 365.

.

1 .

```
Cache-Control: private, max-age=60
```

private . .

.

```
Cache-Control: no-cache
```

.

no-cache ().

. no-cache .

```
Cache-control: no-store
```

.

(HTTPS) .

, API . no-cache revalidation "uncacheable" .

- Expires - . . Cache-control: max-age Expires .
- post-check pre-check Internet Explorer . stale-while-revalidate .
- Pragma: no-cache - 1999 . Cache-control .

URL . URL (:

```
http://example.com/image.png?version=1
http://example.com/image.png?version=2
```

URL , ...?version=1 ...?version=2 .

URL . Cache-control: no-cache Cache-control: no-store . URL no-store (push out) .

HTTP : <https://riptutorial.com/ko/http/topic/3296/http-->

7:

Examples

HTTP

HTTP (HTTP / 1.1). Content-Encoding Transfer-Encoding .

Accept-Encoding .

.

- "gzip" (RFC1952) CRC32 gzip - deflate (LZ77)
- deflate - "zlib" (RFC1950), deflate (hybrid LZ77 Huffman) Adler32

HTTP . . , deflate gzip .

```
Content-Encoding: deflate, gzip
```

Content-Encoding .

```
Content-Encoding: deflate
Content-Encoding: gzip
```

gzip

gzip Accept-Encoding .

```
GET / HTTP/1.1\r\n
Host: www.google.com\r\n
Accept-Encoding: gzip, deflate\r\n
\r\n
```

gzip Content-Encoding .

```
HTTP/1.1 200 OK\r\n
Content-Encoding: gzip\r\n
Content-Length: XX\r\n
\r\n
... compressed content ...
```

: <https://riptutorial.com/ko/http/topic/5046/--->

8:

```

401 401 , 407
WWW-Authenticate Proxy-Authenticate , Proxy-Authenticate Proxy-Authenticate
Authorization , Proxy-Authorization
Basic Digest SPNEGO . HTTP .
. .
Basic : base64 . username:password base64-encoded dXNlcm5hbWU6cGFzc3dvcmQ=

```

RFC2617 . 407 (Proxy Authentication Required) 401 Unauthorized . () .

Examples

HTTP

HTTP . . .

```
GET /secret
```

401 Unauthorized .

```
401 Unauthorized
WWW-Authenticate: Basic realm="Secret Page"
```

Authorization . username:password base64 encoded.

```
GET /secret
Authorization: Basic dXNlcm5hbWU6cGFzc3dvcmQ=
```

```
HTTP/1.1 200 OK
```

: <https://riptutorial.com/ko/http/topic/3286/>

9:

AJAX . HTTP .

Examples

: CORS (Cross-Origin Resource Sharing)

Origin Origin . . , http://example.com http://example.org :

```
GET /cors HTTP/1.1
Host: example.org
Origin: example.com
```

: CORS

CORS Access-Control-Allow-Origin CORS Access-Control-Allow-Origin Access-Control-Allow-Origin . . .

- . . .
- * . . .
- null CORS .

, http://example.com CORS example.com .

```
HTTP/1.1 200 OK
Access-Control-Allow-Origin: example.com
```

(:

```
HTTP/1.1 200 OK
Access-Control-Allow-Origin: *
```

CORS CORS . (: - CORS).

OPTIONS Access-Control-Allow-Credentials . CORS DELETE .

```
OPTIONS /cors HTTP/1.1
Host: example.com
Origin: example.org
Access-Control-Request-Method: DELETE
```

```
HTTP/1.1 200 OK
Access-Control-Allow-Origin: example.org
Access-Control-Allow-Methods: DELETE
Access-Control-Allow-Credentials: true
```

Access-Control-Allow-Credentials: true DELETE CORS .

CORS .

-
-

. POST CORS .

, OPTIONS . , DNT PUT .

```
OPTIONS /cors HTTP/1.1
Host: example.com
Origin: example.org
Access-Control-Request-Method: PUT
Access-Control-Request-Headers: DNT
```

:

(:).

. Max-Age .

- .

```
OPTIONS /cors HTTP/1.1
Host: example.com
Origin: example.org
Access-Control-Request-Method: PUT
Access-Control-Request-Headers: DNT
```

```
HTTP/1.1 200 OK
Access-Control-Allow-Origin: example.org
Access-Control-Allow-Methods: PUT
Access-Control-Allow-Headers: DNT
```

: <https://riptutorial.com/ko/http/topic/3424/--->

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