


JAVASCRIPT NODEJS II

HTTP

ASYNC / AWAIT

```
const axios = require('axios');  
// async significa que la función es asíncrona y que dentro  
// tendrá await  
async function getUsuarios() {  
  // el await se espera a obtener la respuesta del servidor  
  const res = await axios.get('https://jsonplaceholder.typicode.com/users')  
  return res;  
}  
// ejecución de la función getusuarios  
(async () => {  
  resultado = await getUsuarios();  
  console.log(resultado);  
})();
```



VERY IMPORTANT

axios.get es equivalente a
teclear una url en el navegador

Axios es una de la librerías más
usadas para acceder a recursos

- El objeto res del axios

```
{  
  status: 200,  
  statusText: 'OK',  
  headers: {  
    date: 'Tue, 08 Mar 2022 18:55:16 GMT',  
    'content-type': 'application/json; charset=utf-8',  
    'transfer-encoding': 'chunked',  
    // aquí hay mas cabeceras  
  },  
  data: aquí van los datos  
}
```

- Los headers son un objeto que contiene
clave : valor

```
{
  status: 200,
  statusText: 'OK',
  headers: {
    date: 'Tue, 08 Mar 2022 18:55:16 GMT',
    'content-type': 'application/json; charset=utf-8'
  }
  // se omiten headers por espacio
}
```

```
data: [
  {
    "id": 1,
    "name": "Leanne Graham",
    "username": "Bret",
    "email": "Sincere@april.biz",
    "address": {
      "street": "Kulas Light",
      "suite": "Apt. 556",
      "city": "Gwenborough",
      "zipcode": "92998-3874",
      "geo": {
        "lat": "-37.3159",
        "lng": "81.1496"
      }
    },
    "phone": "1-770-736-8031 x56442",
    "website": "hildegard.org",
    "company": {
      "name": "Romaguera-Crona",
      "catchPhrase": "Multi-layered client-server neural-net",
      "bs": "harness real-time e-markets"
    }
  },
  // aquí hay más registro
]
```

- El objeto res del axios
- El status 200 es que ha ido bien
- El objeto headers devuelve datos que identifican el tipo de contenido devuelto



trace-http.pcap

File Edit View Go Capture Analyze Statistics Telephony Wireless Tools Help

Apply a display filter ... <Ctrl-/> Expression...

No.	Time	Source	Destination	Protocol	Length	Info
1	0.000000	192.168.1.122	18.9.22.169	HTTP	802	GET /img/MIT_logo.gif HTTP/1.1
2	0.091557	18.9.22.169	192.168.1.122	TCP	1414	80 → 64123 [PSH, ACK] Seq=1 Ack=737 Win=6792 Len=1348 TSval=2386688720 TSecr=549868767 [TCP segment...]
3	0.091645	192.168.1.122	18.9.22.169	TCP	66	64123 → 80 [ACK] Seq=737 Ack=1349 Win=65495 Len=0 TSval=549868858 TSecr=2386688720
4	0.092632	18.9.22.169	192.168.1.122	HTTP	591	HTTP/1.1 200 OK (GIF89a)
5	0.092655	192.168.1.122	18.9.22.169	TCP	66	64123 → 80 [ACK] Seq=737 Ack=1874 Win=65535 Len=0 TSval=549868859 TSecr=2386688720
6	9.429071	192.168.1.122	18.9.22.169	HTTP	892	GET /img/MIT_logo.gif HTTP/1.1
7	9.517857	18.9.22.169	192.168.1.122	HTTP	312	HTTP/1.1 304 Not Modified
8	9.517915	192.168.1.122	18.9.22.169	TCP	66	64123 → 80 [ACK] Seq=1563 Ack=2120 Win=65535 Len=0 TSval=549878267 TSecr=2386698147
9	9.532006	192.168.1.122	18.9.22.169	HTTP	711	GET /favicon.ico HTTP/1.1
10	9.623756	18.9.22.169	192.168.1.122	TCP	1414	80 → 64123 [PSH, ACK] Seq=2120 Ack=2208 Win=8263 Len=1348 TSval=2386698252 TSecr=549878280 [TCP se...]
11	9.623906	192.168.1.122	18.9.22.169	TCP	66	64123 → 80 [ACK] Seq=2208 Ack=3468 Win=65495 Len=0 TSval=549878371 TSecr=2386698252
12	9.624140	18.9.22.169	192.168.1.122	TCP	1434	80 → 64123 [ACK] Seq=3468 Ack=2208 Win=8263 Len=1368 TSval=2386698252 TSecr=549878280 [TCP segment...]
13	9.624748	18.9.22.169	192.168.1.122	TCP	1434	80 → 64123 [ACK] Seq=4836 Ack=2208 Win=8263 Len=1368 TSval=2386698252 TSecr=549878280 [TCP segment...]
14	9.624792	192.168.1.122	18.9.22.169	TCP	66	64123 → 80 [ACK] Seq=2208 Ack=6204 Win=65322 Len=0 TSval=549878371 TSecr=2386698252
15	9.625105	18.9.22.169	192.168.1.122	TCP	1434	80 → 64123 [ACK] Seq=6204 Ack=2208 Win=8263 Len=1368 TSval=2386698252 TSecr=549878280 [TCP segment...]
16	9.626328	192.168.1.122	18.9.22.169	TCP	66	64123 → 80 [ACK] Seq=2208 Ack=7572 Win=65535 Len=0 TSval=549878373 TSecr=2386698252
17	9.630191	18.9.22.169	192.168.1.122	TCP	1434	80 → 64123 [ACK] Seq=7572 Ack=2208 Win=8263 Len=1368 TSval=2386698253 TSecr=549878280 [TCP segment...]
18	9.630692	18.9.22.169	192.168.1.122	TCP	1434	80 → 64123 [ACK] Seq=8940 Ack=2208 Win=8263 Len=1368 TSval=2386698253 TSecr=549878280 [TCP segment...]
19	9.630718	192.168.1.122	18.9.22.169	TCP	66	64123 → 80 [ACK] Seq=2208 Ack=10308 Win=65493 Len=0 TSval=549878377 TSecr=2386698253

> Frame 1: 802 bytes on wire (6416 bits), 802 bytes captured (6416 bits)

> Ethernet II, Src: Apple_ac:6c:26 (10:9a:dd:ac:6c:26), Dst: Cisco-Li_e3:e9:8d (00:16:b6:e3:e9:8d)

> Internet Protocol Version 4, Src: 192.168.1.122, Dst: 18.9.22.169

> Transmission Control Protocol, Src Port: 64123, Dst Port: 80, Seq: 1, Ack: 1, Len: 736

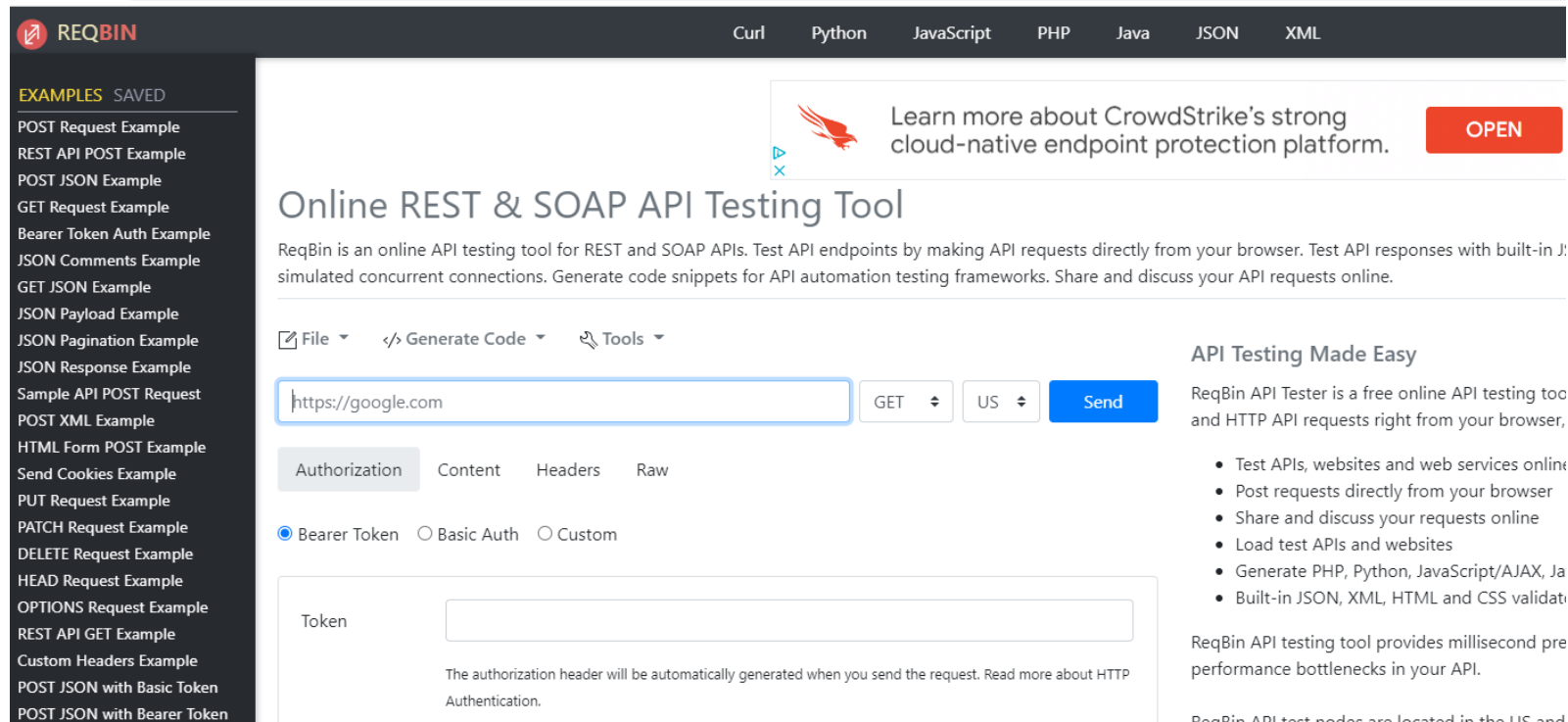
> Hypertext Transfer Protocol

- Ejemplo de una comunicación wireshark. FYI



- CONOCER EL HTTP

https://reqbin.com/



The screenshot shows the ReqBin website interface. At the top, there's a navigation bar with links for Curl, Python, JavaScript, PHP, Java, JSON, and XML. Below this, a sidebar on the left lists various examples like POST Request Example, REST API POST Example, etc. The main content area features a header with the ReqBin logo and a navigation bar. Below the header, there's a section titled "Online REST & SOAP API Testing Tool" with a description of the tool. A form is present with a URL input field (containing "https://google.com"), a method dropdown (set to GET), a user dropdown (set to US), and a "Send" button. Below the form, there are tabs for Authorization, Content, Headers, and Raw. The Authorization tab is selected, showing options for Bearer Token, Basic Auth, and Custom. A "Token" input field is visible under the Bearer Token option. To the right of the form, there's a section titled "API Testing Made Easy" with a list of features and a description of the tool.

ReqBin is an online API testing tool for REST and SOAP APIs. Test API endpoints by making API requests directly from your browser. Test API responses with built-in J simulated concurrent connections. Generate code snippets for API automation testing frameworks. Share and discuss your API requests online.

API Testing Made Easy

ReqBin API Tester is a free online API testing tool and HTTP API requests right from your browser,

- Test APIs, websites and web services online
- Post requests directly from your browser
- Share and discuss your requests online
- Load test APIs and websites
- Generate PHP, Python, JavaScript/AJAX, Ja
- Built-in JSON, XML, HTML and CSS validat

ReqBin API testing tool provides millisecond pre performance bottlenecks in your API.

ReqBin API test nodes are located in the US and