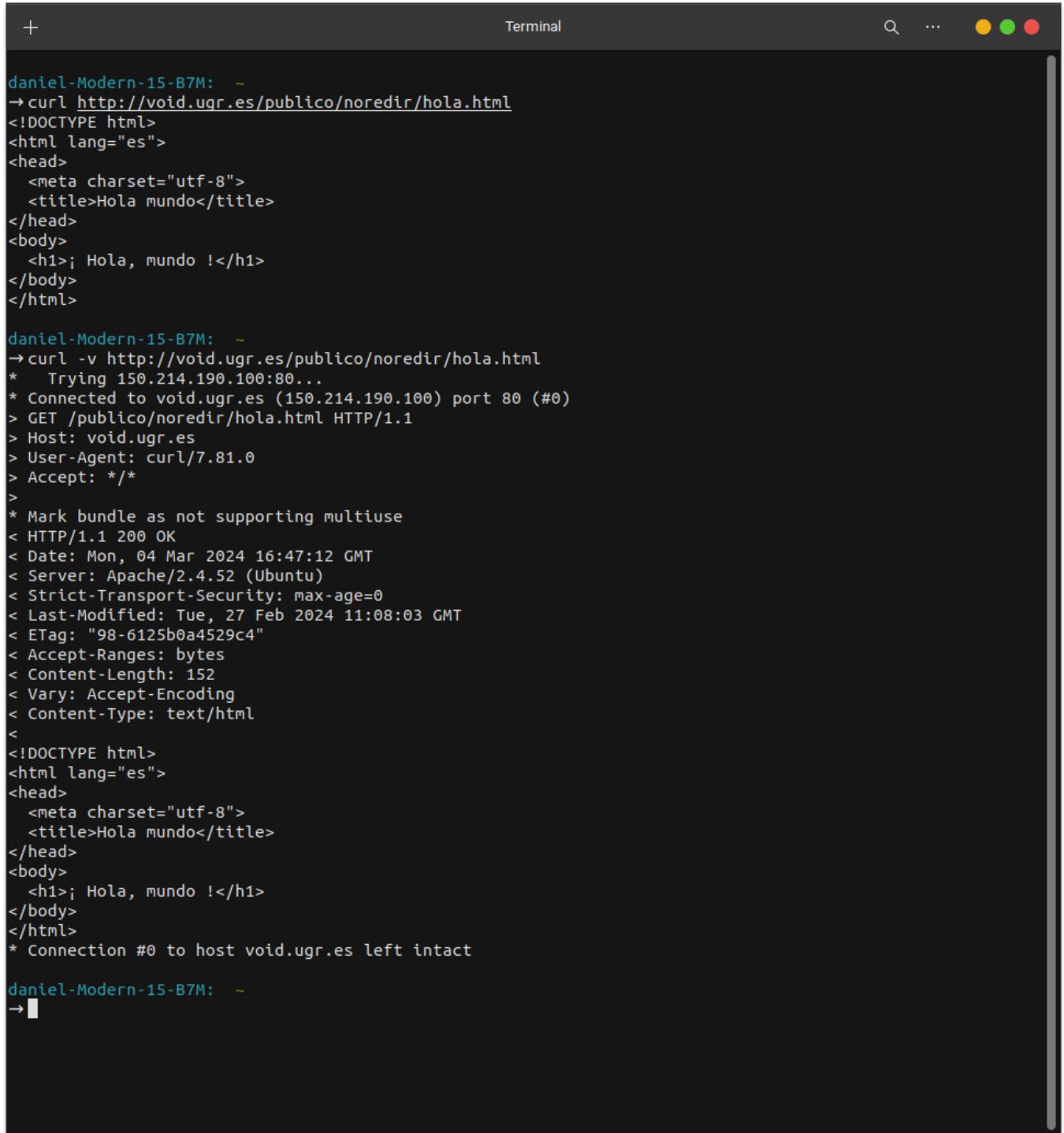


El protocolo HTTP

Daniel Alconchel Vázquez

Ejercicio 1: Petición web con cURL



A screenshot of a macOS Terminal window titled "Terminal". The window shows a session where a user runs two curl commands. The first command retrieves the HTML content of the file "hola.html" from the URL "http://void.ugr.es/publico/noredir/hola.html". The second command uses the -v option to show verbose output for the same request, including the full HTTP exchange and the received HTML content.

```
daniel-Modern-15-B7M: ~
→ curl http://void.ugr.es/publico/noredir/hola.html
<!DOCTYPE html>
<html lang="es">
<head>
  <meta charset="utf-8">
  <title>Hola mundo</title>
</head>
<body>
  <h1>¡ Hola, mundo !</h1>
</body>
</html>

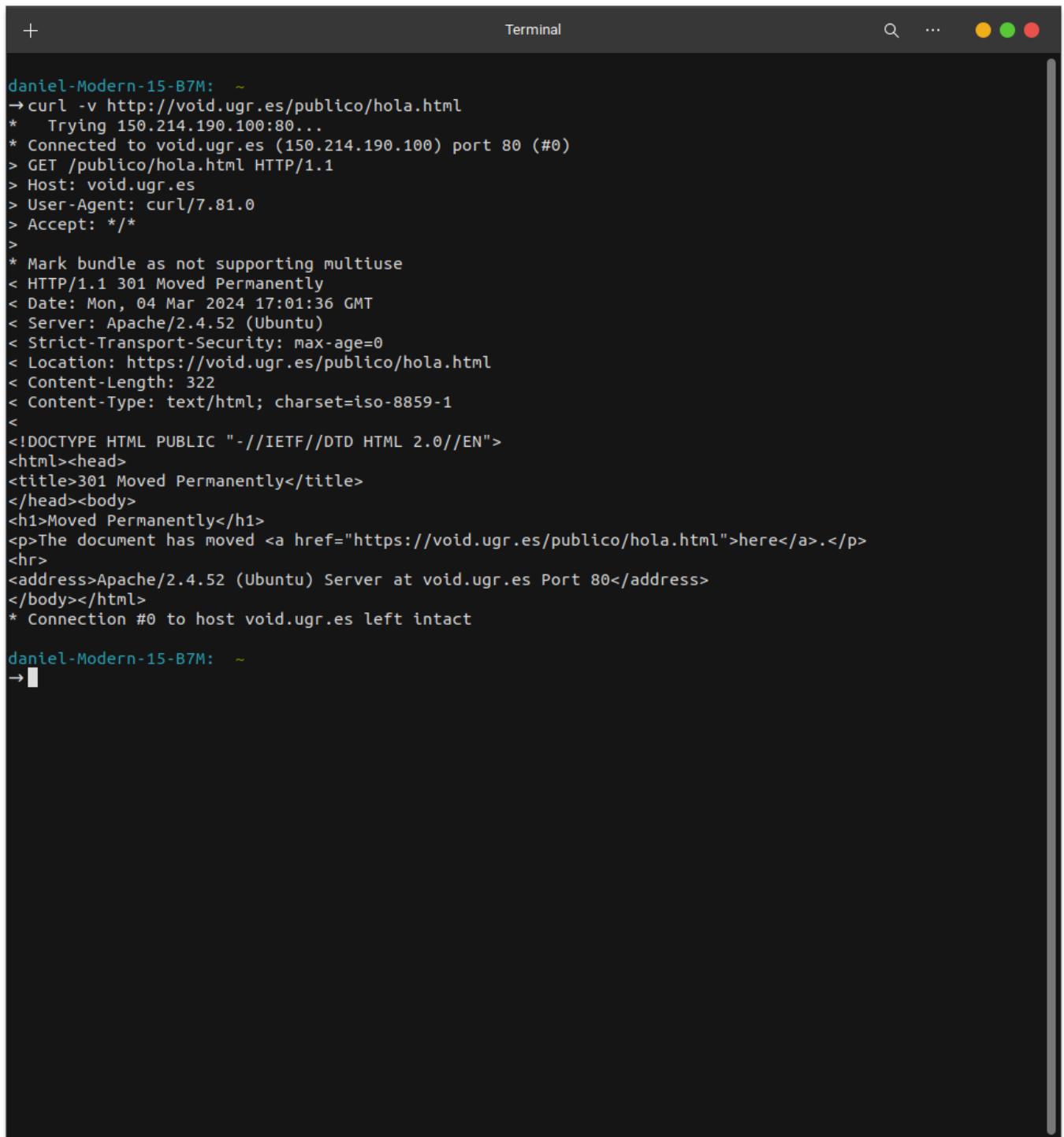
daniel-Modern-15-B7M: ~
→ curl -v http://void.ugr.es/publico/noredir/hola.html
*   Trying 150.214.190.100:80...
*   Connected to void.ugr.es (150.214.190.100) port 80 (#0)
> GET /publico/noredir/hola.html HTTP/1.1
> Host: void.ugr.es
> User-Agent: curl/7.81.0
> Accept: */*
>
* Mark bundle as not supporting multiuse
< HTTP/1.1 200 OK
< Date: Mon, 04 Mar 2024 16:47:12 GMT
< Server: Apache/2.4.52 (Ubuntu)
< Strict-Transport-Security: max-age=0
< Last-Modified: Tue, 27 Feb 2024 11:08:03 GMT
< ETag: "98-6125b0a4529c4"
< Accept-Ranges: bytes
< Content-Length: 152
< Vary: Accept-Encoding
< Content-Type: text/html
<
<!DOCTYPE html>
<html lang="es">
<head>
  <meta charset="utf-8">
  <title>Hola mundo</title>
</head>
<body>
  <h1>¡ Hola, mundo !</h1>
</body>
</html>
* Connection #0 to host void.ugr.es left intact

daniel-Modern-15-B7M: ~
→ █
```

Con el primer comando solo podemos ver el cuerpo de la respuesta, por lo que no podemos comentar nada sobre los encabezados de HTTP.

Con el segundo comando, podemos ver que hay una primera parte donde se construye la petición HTTP. En dicha petición, vemos que en la primera línea se muestra que se trata de una petición `GET`, después sigue el encabezado, donde se muestra el host al que se manda la petición, y el agente usado para mandarlo, que en este caso es `curl`, además de especificar el tipo de contenido que puede aceptar y procesar el cliente (`*/*`). Por último, hay una línea en blanco. A continuación, podemos ver el mensaje de respuesta de HTTP, que sigue una estructura similar. Tiene una primera línea, donde se muestra el protocolo usado y el estado de la respuesta, después, aparecen los encabezados, con la información que podemos ver en la captura y, por último, una línea en blanco, seguido del cuerpo de la respuesta.

Ejercicio 2: Redirecciones con cURL



A screenshot of a macOS Terminal window. The title bar says "Terminal". The window contains the following text:

```
daniel-Modern-15-B7M: ~
→ curl -v http://void.ugr.es/publico/hola.html
*   Trying 150.214.190.100:80...
* Connected to void.ugr.es (150.214.190.100) port 80 (#0)
> GET /publico/hola.html HTTP/1.1
> Host: void.ugr.es
> User-Agent: curl/7.81.0
> Accept: */*
>
* Mark bundle as not supporting multiuse
< HTTP/1.1 301 Moved Permanently
< Date: Mon, 04 Mar 2024 17:01:36 GMT
< Server: Apache/2.4.52 (Ubuntu)
< Strict-Transport-Security: max-age=0
< Location: https://void.ugr.es/publico/hola.html
< Content-Length: 322
< Content-Type: text/html; charset=iso-8859-1
<
<!DOCTYPE HTML PUBLIC "-//IETF//DTD HTML 2.0//EN">
<html><head>
<title>301 Moved Permanently</title>
</head><body>
<h1>Moved Permanently</h1>
<p>The document has moved <a href="https://void.ugr.es/publico/hola.html">here</a>.</p>
<hr>
<address>Apache/2.4.52 (Ubuntu) Server at void.ugr.es Port 80</address>
</body></html>
* Connection #0 to host void.ugr.es left intact
```

At the bottom of the terminal window, there is a small black square icon.

Como podemos ver, no nos redirige automáticamente y nos muestra el código de estado 301 de HTTP, que suele usarse cuando ocurre un cambio de HTTP a HTTPS

+

Terminal



```
daniel-Modern-15-B7M: ~
→ curl -vL http://void.ugr.es/publico/hola.html
*   Trying 150.214.190.100:80...
* Connected to void.ugr.es (150.214.190.100) port 80 (#0)
> GET /publico/hola.html HTTP/1.1
> Host: void.ugr.es
> User-Agent: curl/7.81.0
> Accept: */*
>
* Mark bundle as not supporting multiuse
< HTTP/1.1 301 Moved Permanently
< Date: Mon, 04 Mar 2024 17:05:19 GMT
< Server: Apache/2.4.52 (Ubuntu)
< Strict-Transport-Security: max-age=0
< Location: https://void.ugr.es/publico/hola.html
< Content-Length: 322
< Content-Type: text/html; charset=iso-8859-1
<
* Ignoring the response-body
* Connection #0 to host void.ugr.es left intact
* Clear auth, redirects to port from 80 to 443
* Issue another request to this URL: 'https://void.ugr.es/publico/hola.html'
*   Trying 150.214.190.100:443...
* Connected to void.ugr.es (150.214.190.100) port 443 (#1)
* ALPN, offering h2
* ALPN, offering http/1.1
* CAfile: /etc/ssl/certs/ca-certificates.crt
* CApth: /etc/ssl/certs
* TLSv1.0 (OUT), TLS header, Certificate Status (22):
* TLSv1.3 (OUT), TLS handshake, Client hello (1):
* TLSv1.2 (IN), TLS header, Certificate Status (22):
* TLSv1.3 (IN), TLS handshake, Server hello (2):
* TLSv1.2 (IN), TLS header, Finished (20):
* TLSv1.2 (IN), TLS header, Supplemental data (23):
* TLSv1.3 (IN), TLS handshake, Encrypted Extensions (8):
* TLSv1.2 (IN), TLS header, Supplemental data (23):
* TLSv1.3 (IN), TLS handshake, Certificate (11):
* TLSv1.2 (IN), TLS header, Supplemental data (23):
* TLSv1.3 (IN), TLS handshake, CERT verify (15):
* TLSv1.2 (IN), TLS header, Supplemental data (23):
* TLSv1.3 (IN), TLS handshake, Finished (20):
* TLSv1.2 (OUT), TLS header, Finished (20):
* TLSv1.3 (OUT), TLS change cipher spec (1):
* TLSv1.2 (OUT), TLS header, Supplemental data (23):
* TLSv1.3 (OUT), TLS handshake, Finished (20):
* SSL connection using TLSv1.3 / TLS_AES_256_GCM_SHA384
* ALPN, server accepted to use http/1.1
* Server certificate:
*   subject: CN=void.ugr.es
*   start date: Feb 16 16:33:20 2024 GMT
*   expire date: May 16 16:33:19 2024 GMT
*   subjectAltName: host "void.ugr.es" matched cert's "void.ugr.es"
*   issuer: C=US; O=Let's Encrypt; CN=R3
*   SSL certificate verify ok.
```

```
* TLSv1.2 (IN), TLS header, Supplemental data (23):
* Mark bundle as not supporting multiuse
< HTTP/1.1 200 OK
< Date: Mon, 04 Mar 2024 17:05:19 GMT
< Server: Apache/2.4.52 (Ubuntu)
< Strict-Transport-Security: max-age=0
< Last-Modified: Tue, 05 Dec 2023 08:21:46 GMT
< ETag: "98-60bbece96cf2"
< Accept-Ranges: bytes
< Content-Length: 152
< Vary: Accept-Encoding
< Content-Type: text/html
<
<!DOCTYPE html>
<html lang="es">
<head>
  <meta charset="utf-8">
  <title>Hola mundo</title>
</head>
<body>
  <h1>¡Hola, mundo !</h1>
</body>
</html>
* Connection #1 to host void.ugr.es left intact
```

daniel-Modern-15-B7M: ~
→

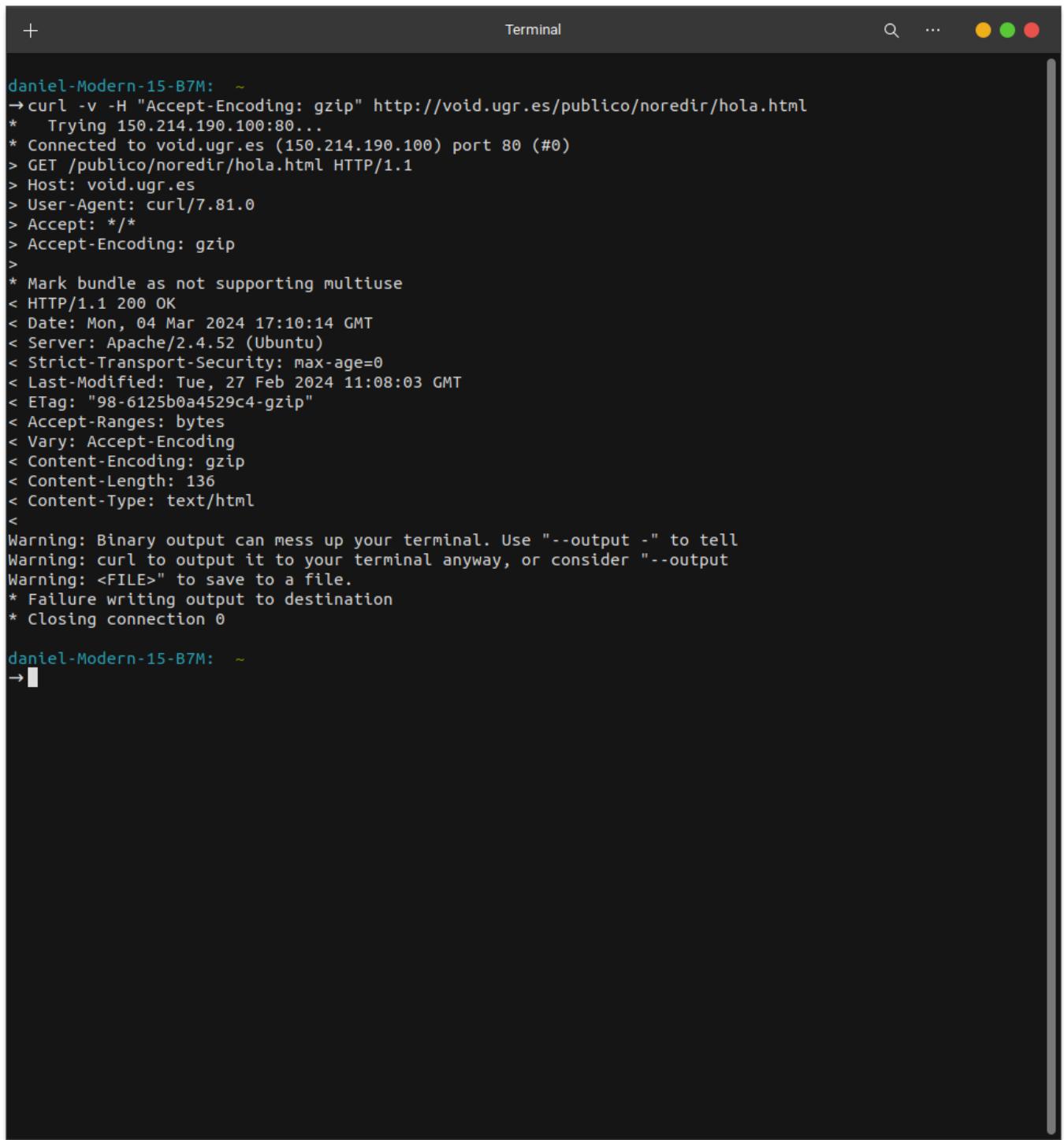
Como podemos ver, esta vez si hace la redirección.

The screenshot shows a browser window with the URL <https://void.ugr.es/publico/hola.html>. The page content is "¡ Hola, mundo !". Below the page, the browser's developer tools are open, specifically the Network tab. The Network tab displays two requests:

Estado	Método	Dominio	Archivo	Iniciador	Tipo	Transferido	Tamaño	0 ms	320 ms
200	GET	void.ugr.es	hola.html	document	html	510 B	152 B	174 ms	
401	GET	void.ugr.es	favicon.ico	FaviconLoader...	html	cacheado	459 B		0 ms

At the bottom of the Network tab, it says "2 solicitudes | 611 B / 510 B transferido | Finalizado: 337 ms | DOMContentLoaded: 224 ms | load: 232 ms".

Ejercicio 3: Añadiendo encabezados sobre compresión gzip con cURL



A screenshot of a macOS Terminal window. The title bar says "Terminal". The window contains the following text:

```
daniel-Modern-15-B7M: ~
→ curl -v -H "Accept-Encoding: gzip" http://void.ugr.es/publico/noredir/hola.html
*   Trying 150.214.190.100:80...
* Connected to void.ugr.es (150.214.190.100) port 80 (#0)
> GET /publico/noredir/hola.html HTTP/1.1
> Host: void.ugr.es
> User-Agent: curl/7.81.0
> Accept: */*
> Accept-Encoding: gzip
>
* Mark bundle as not supporting multiuse
< HTTP/1.1 200 OK
< Date: Mon, 04 Mar 2024 17:10:14 GMT
< Server: Apache/2.4.52 (Ubuntu)
< Strict-Transport-Security: max-age=0
< Last-Modified: Tue, 27 Feb 2024 11:08:03 GMT
< ETag: "98-6125b0a4529c4-gzip"
< Accept-Ranges: bytes
< Vary: Accept-Encoding
< Content-Encoding: gzip
< Content-Length: 136
< Content-Type: text/html
<
Warning: Binary output can mess up your terminal. Use "--output -" to tell
Warning: curl to output it to your terminal anyway, or consider "--output
Warning: <FILE>" to save to a file.
* Failure writing output to destination
* Closing connection 0

daniel-Modern-15-B7M: ~
→ █
```

Podemos ver que evita escribir la información binaria en la consola, tal y como indica el guión.

```
+ Terminal
daniel-Modern-15-B7M: ~
→curl -v -H "Accept-Encoding: gzip" http://void.ugr.es/publico/noredir/hola.html --output -
*   Trying 150.214.190.100:80...
* Connected to void.ugr.es (150.214.190.100) port 80 (#0)
> GET /publico/noredir/hola.html HTTP/1.1
> Host: void.ugr.es
> User-Agent: curl/7.81.0
> Accept: */*
> Accept-Encoding: gzip
>
* Mark bundle as not supporting multiuse
< HTTP/1.1 200 OK
< Date: Mon, 04 Mar 2024 17:12:09 GMT
< Server: Apache/2.4.52 (Ubuntu)
< Strict-Transport-Security: max-age=0
< Last-Modified: Tue, 27 Feb 2024 11:08:03 GMT
< ETag: "98-6125b0a4529c4-gzip"
< Accept-Ranges: bytes
< Vary: Accept-Encoding
< Content-Encoding: gzip
< Content-Length: 136
< Content-Type: text/html
<
↳Qteww
    pUo(♦F♦Q
* Connection #0 to host void.ugr.es left intact
9ey♦J♦♦J ♦♦; .♦♦J♦♦G♦♦[♦E4]
    %DIFIN♦G~N♦Bni^J♦♦D♦♦F♦♦&)♦♦4♦♦B♦R♦ZE♦"C♦R♦♦ ♦d♦♦E
daniel-Modern-15-B7M: ~
→curl -v -H "Accept-Encoding: gzip" http://void.ugr.es/publico/noredir/hola.html --output fichero.html.gz
% Total    % Received % Xferd  Average Speed   Time   Time  Current
          Dload Upload Total Spent   Left Speed
0     0     0     0     0     0     0 ---:---:---:---:---:--- 0*   Trying 150.214.190.100:80...
* Connected to void.ugr.es (150.214.190.100) port 80 (#0)
> GET /publico/noredir/hola.html HTTP/1.1
> Host: void.ugr.es
> User-Agent: curl/7.81.0
> Accept: */*
> Accept-Encoding: gzip
>
* Mark bundle as not supporting multiuse
< HTTP/1.1 200 OK
< Date: Mon, 04 Mar 2024 17:12:32 GMT
< Server: Apache/2.4.52 (Ubuntu)
< Strict-Transport-Security: max-age=0
< Last-Modified: Tue, 27 Feb 2024 11:08:03 GMT
< ETag: "98-6125b0a4529c4-gzip"
< Accept-Ranges: bytes
< Vary: Accept-Encoding
< Content-Encoding: gzip
< Content-Length: 136
< Content-Type: text/html
<
{ [136 bytes data]
100 136 100 136 0 0 5798 0 ---:---:---:---:---:--- 5913
* Connection #0 to host void.ugr.es left intact
daniel-Modern-15-B7M: ~
→█
```

Esta vez, le forzamos a hacerlo con `--output`. Veamos el fichero descomprimido:

A screenshot of a macOS Terminal window titled "Terminal". The window has a dark theme. At the top right are standard OS X window controls: a search icon, a "...", and three colored circles (yellow, green, red). The terminal session shows the following commands and output:

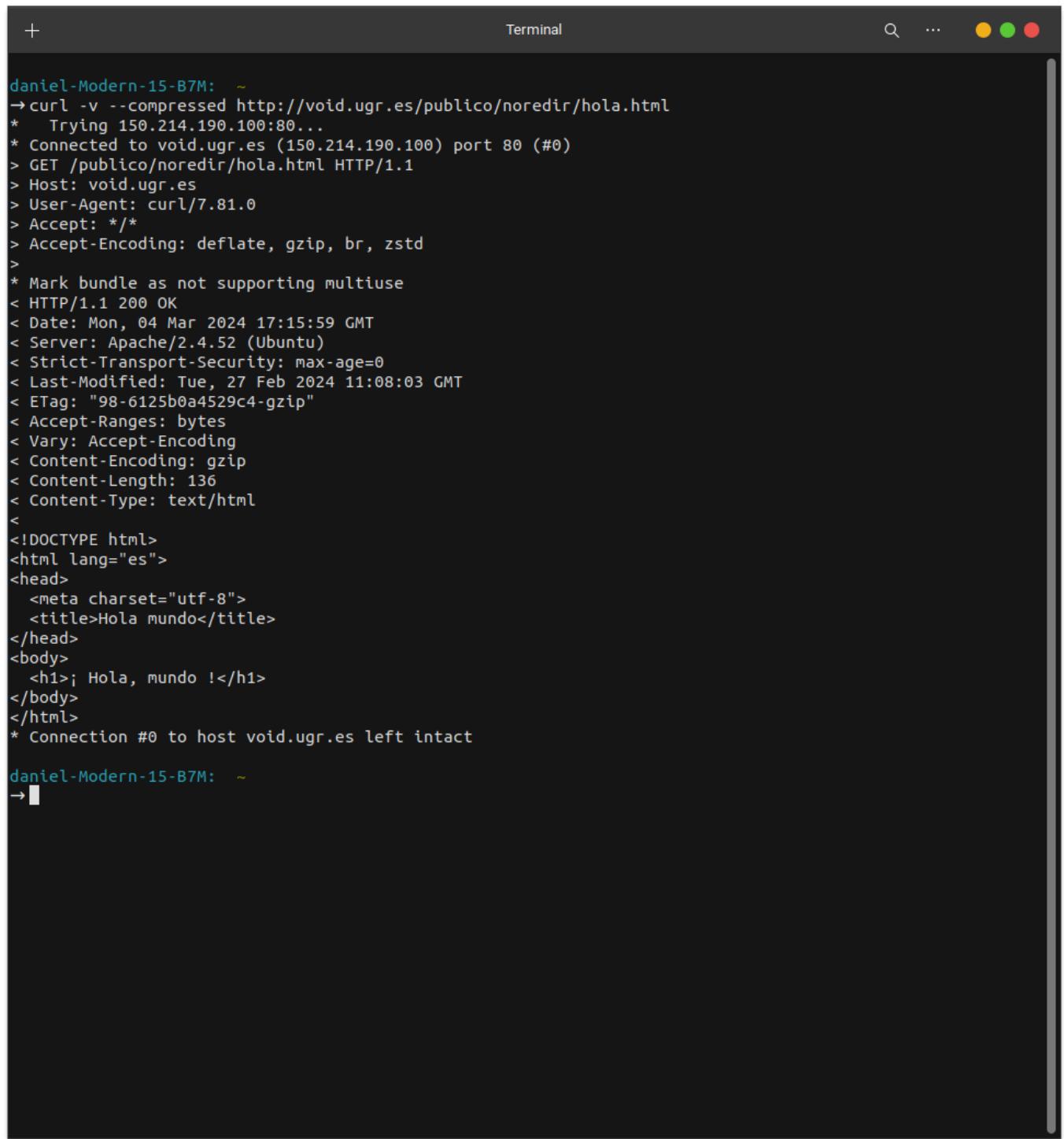
```
daniel-Modern-15-B7M: ~
→ gunzip fichero.html.gz

daniel-Modern-15-B7M: ~
→ ls
auryo_2.5.4_amd64.deb Documentos fichero.html Imágenes Plantillas snap
Descargas Escritorio Git Música Público Vídeos

daniel-Modern-15-B7M: ~
→ cat fichero.html
<!DOCTYPE html>
<html lang="es">
<head>
  <meta charset="utf-8">
  <title>Hola mundo</title>
</head>
<body>
  <h1>¡Hola, mundo !</h1>
</body>
</html>

daniel-Modern-15-B7M: ~
→
```

Probamos, por último, la opción `--compressed` para descomprimir la información y verla directamente en consola:



A screenshot of a macOS Terminal window. The title bar says "Terminal". The window contains the following text:

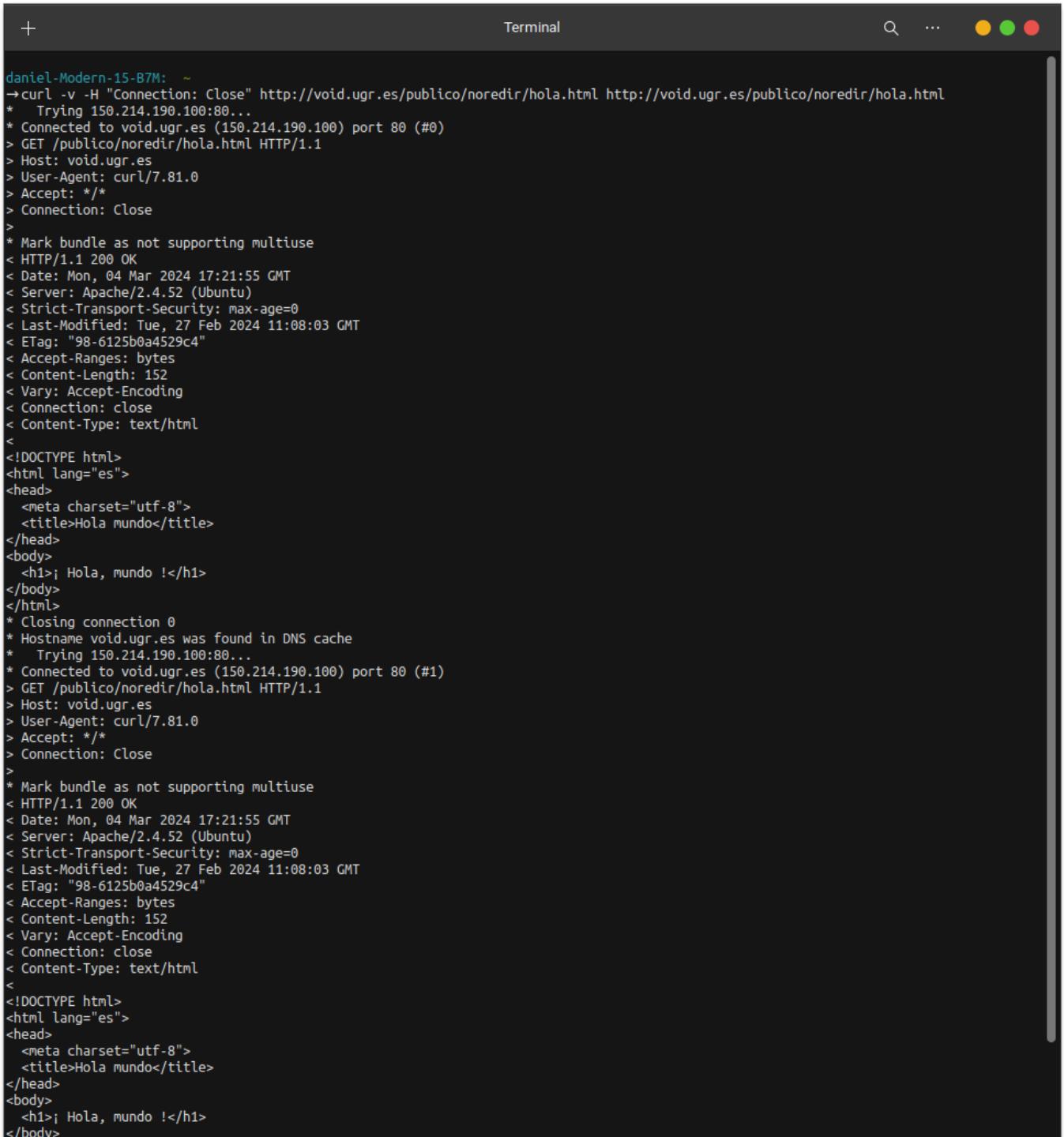
```
daniel-Modern-15-B7M: ~
→ curl -v --compressed http://void.ugr.es/publico/noredir/hola.html
*   Trying 150.214.190.100:80...
* Connected to void.ugr.es (150.214.190.100) port 80 (#0)
> GET /publico/noredir/hola.html HTTP/1.1
> Host: void.ugr.es
> User-Agent: curl/7.81.0
> Accept: */*
> Accept-Encoding: deflate, gzip, br, zstd
>
* Mark bundle as not supporting multiuse
< HTTP/1.1 200 OK
< Date: Mon, 04 Mar 2024 17:15:59 GMT
< Server: Apache/2.4.52 (Ubuntu)
< Strict-Transport-Security: max-age=0
< Last-Modified: Tue, 27 Feb 2024 11:08:03 GMT
< ETag: "98-6125b0a4529c4-gzip"
< Accept-Ranges: bytes
< Vary: Accept-Encoding
< Content-Encoding: gzip
< Content-Length: 136
< Content-Type: text/html
<
<!DOCTYPE html>
<html lang="es">
<head>
  <meta charset="utf-8">
  <title>Hola mundo</title>
</head>
<body>
  <h1>¡Hola, mundo !</h1>
</body>
</html>
* Connection #0 to host void.ugr.es left intact
```

The prompt "daniel-Modern-15-B7M: ~" appears twice, once before the command and once after the response. A cursor icon is visible at the bottom left.

Ejercicio 4: Añadiendo encabezados sobre conexiones persistentes con cURL

```
+ Terminal
daniel-Modern-15-B7M: ~
→curl -v http://void.ugr.es/publico/noredir/hola.html http://void.ugr.es/publico/noredir//hola.html
* Trying 150.214.190.100:80...
* Connected to void.ugr.es (150.214.190.100) port 80 (#0)
> GET /publico/noredir/hola.html HTTP/1.1
> Host: void.ugr.es
> User-Agent: curl/7.81.0
> Accept: */*
>
* Mark bundle as not supporting multiuse
< HTTP/1.1 200 OK
< Date: Mon, 04 Mar 2024 17:19:05 GMT
< Server: Apache/2.4.52 (Ubuntu)
< Strict-Transport-Security: max-age=0
< Last-Modified: Tue, 27 Feb 2024 11:08:03 GMT
< ETag: "98-6125b0a4529c4"
< Accept-Ranges: bytes
< Content-Length: 152
< Vary: Accept-Encoding
< Content-Type: text/html
<
<!DOCTYPE html>
<html lang="es">
<head>
  <meta charset="utf-8">
  <title>Hola mundo</title>
</head>
<body>
  <h1>¡ Hola, mundo !</h1>
</body>
</html>
* Connection #0 to host void.ugr.es left intact
* Found bundle for host void.ugr.es: 0x55c57da517e0 [serially]
* Can not multiplex, even if we wanted to!
* Re-using existing connection! (#0) with host void.ugr.es
* Connected to void.ugr.es (150.214.190.100) port 80 (#0)
> GET /publico/noredir//hola.html HTTP/1.1
> Host: void.ugr.es
> User-Agent: curl/7.81.0
> Accept: */*
>
* Mark bundle as not supporting multiuse
< HTTP/1.1 200 OK
< Date: Mon, 04 Mar 2024 17:19:05 GMT
< Server: Apache/2.4.52 (Ubuntu)
< Strict-Transport-Security: max-age=0
< Last-Modified: Tue, 27 Feb 2024 11:08:03 GMT
< ETag: "98-6125b0a4529c4"
< Accept-Ranges: bytes
< Content-Length: 152
< Vary: Accept-Encoding
< Content-Type: text/html
<
<!DOCTYPE html>
<html lang="es">
<head>
  <meta charset="utf-8">
  <title>Hola mundo</title>
</head>
<body>
  <h1>¡ Hola, mundo !</h1>
</body>
</html>
* Connection #0 to host void.ugr.es left intact
```

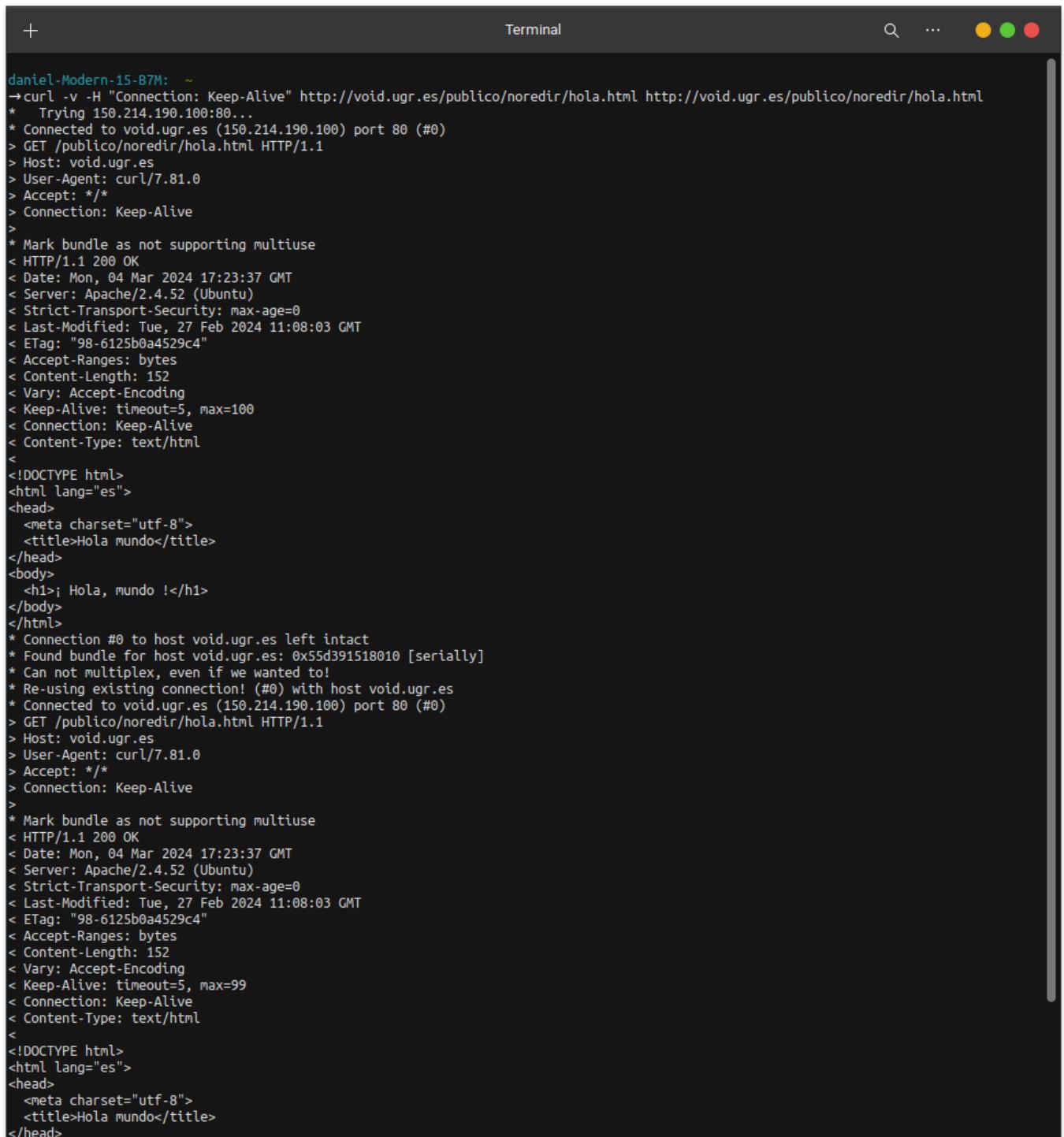
Vemos que, en la segunda petición, se indica *Re-using existing connection!...*, lo que indica que se mantuvo la misma conexión TCP/IP.



A screenshot of a macOS Terminal window. The title bar says "Terminal". The window contains the output of a curl command. The command was run with the -v option to show verbose output. The output shows two separate connections. The first connection (connection 0) is used for the initial request to "void.ugr.es" and its response. The second connection (connection 1) is used for the same host again. Both connections show standard HTTP headers like Host, User-Agent, Accept, and Connection. The response body for both is identical HTML code: "<h1>¡Hola, mundo !</h1>". The terminal interface includes a search bar and window control buttons.

```
daniel-Modern-15-B7M: ~
→curl -v -H "Connection: Close" http://void.ugr.es/publico/noredir/hola.html http://void.ugr.es/publico/noredir/hola.html
*   Trying 150.214.190.100:80...
* Connected to void.ugr.es (150.214.190.100) port 80 (#0)
> GET /publico/noredir/hola.html HTTP/1.1
> Host: void.ugr.es
> User-Agent: curl/7.81.0
> Accept: */*
> Connection: Close
>
* Mark bundle as not supporting multiuse
< HTTP/1.1 200 OK
< Date: Mon, 04 Mar 2024 17:21:55 GMT
< Server: Apache/2.4.52 (Ubuntu)
< Strict-Transport-Security: max-age=0
< Last-Modified: Tue, 27 Feb 2024 11:08:03 GMT
< ETag: "98-6125b0a4529c4"
< Accept-Ranges: bytes
< Content-Length: 152
< Vary: Accept-Encoding
< Connection: close
< Content-Type: text/html
<
<!DOCTYPE html>
<html lang="es">
<head>
  <meta charset="utf-8">
  <title>Hola mundo</title>
</head>
<body>
  <h1>¡Hola, mundo !</h1>
</body>
</html>
* Closing connection 0
* Hostname void.ugr.es was found in DNS cache
*   Trying 150.214.190.100:80...
* Connected to void.ugr.es (150.214.190.100) port 80 (#1)
> GET /publico/noredir/hola.html HTTP/1.1
> Host: void.ugr.es
> User-Agent: curl/7.81.0
> Accept: */*
> Connection: Close
>
* Mark bundle as not supporting multiuse
< HTTP/1.1 200 OK
< Date: Mon, 04 Mar 2024 17:21:55 GMT
< Server: Apache/2.4.52 (Ubuntu)
< Strict-Transport-Security: max-age=0
< Last-Modified: Tue, 27 Feb 2024 11:08:03 GMT
< ETag: "98-6125b0a4529c4"
< Accept-Ranges: bytes
< Content-Length: 152
< Vary: Accept-Encoding
< Connection: close
< Content-Type: text/html
<
<!DOCTYPE html>
<html lang="es">
<head>
  <meta charset="utf-8">
  <title>Hola mundo</title>
</head>
<body>
  <h1>¡Hola, mundo !</h1>
</body>
```

Podemos apreciar en la captura que hemos deshabilitado la opción de reutilizar la misma conexión. También podemos ver que indica con `#n` el número de la conexión, siendo el de la primera 0 y el de la segunda 1.



```
daniel-Modern-15-B7M: ~
→curl -v -H "Connection: Keep-Alive" http://void.ugr.es/publico/noredir/hola.html http://void.ugr.es/publico/noredir/hola.html
* Trying 150.214.190.100:80...
* Connected to void.ugr.es (150.214.190.100) port 80 (#0)
> GET /publico/noredir/hola.html HTTP/1.1
> Host: void.ugr.es
> User-Agent: curl/7.81.0
> Accept: */*
> Connection: Keep-Alive
>
* Mark bundle as not supporting multiuse
< HTTP/1.1 200 OK
< Date: Mon, 04 Mar 2024 17:23:37 GMT
< Server: Apache/2.4.52 (Ubuntu)
< Strict-Transport-Security: max-age=0
< Last-Modified: Tue, 27 Feb 2024 11:08:03 GMT
< ETag: "98-6125b0a4529c4"
< Accept-Ranges: bytes
< Content-Length: 152
< Vary: Accept-Encoding
< Keep-Alive: timeout=5, max=100
< Connection: Keep-Alive
< Content-Type: text/html
<
<!DOCTYPE html>
<html lang="es">
<head>
  <meta charset="utf-8">
  <title>Hola mundo</title>
</head>
<body>
  <h1>Hola, mundo !</h1>
</body>
</html>
* Connection #0 to host void.ugr.es left intact
* Found bundle for host void.ugr.es: 0x55d391518010 [serially]
* Can not multiplex, even if we wanted to!
* Re-using existing connection! (#0) with host void.ugr.es
* Connected to void.ugr.es (150.214.190.100) port 80 (#0)
> GET /publico/noredir/hola.html HTTP/1.1
> Host: void.ugr.es
> User-Agent: curl/7.81.0
> Accept: */*
> Connection: Keep-Alive
>
* Mark bundle as not supporting multiuse
< HTTP/1.1 200 OK
< Date: Mon, 04 Mar 2024 17:23:37 GMT
< Server: Apache/2.4.52 (Ubuntu)
< Strict-Transport-Security: max-age=0
< Last-Modified: Tue, 27 Feb 2024 11:08:03 GMT
< ETag: "98-6125b0a4529c4"
< Accept-Ranges: bytes
< Content-Length: 152
< Vary: Accept-Encoding
< Keep-Alive: timeout=5, max=99
< Connection: Keep-Alive
< Content-Type: text/html
<
<!DOCTYPE html>
<html lang="es">
<head>
  <meta charset="utf-8">
  <title>Hola mundo</title>
</head>
```

Vemos, por último, que de esta forma si hace uso de las conexiones persistentes.

Ejercicio 5: Averiguar el software que usa un servidor web

Servicios en void.ugr.es

Información del sistema

- Sobre apache
- Sobre PHP
- Sobre MySQL

Administración de la Base de Datos

- phpMyAdmin (preferido)
- Adminer
- MyWebSQL

Subida de ficheros al servidor

Dado que subir ficheros al servidor mediante algún cliente que use el protocolo SFTP. Una vez accedas a tu home deberás cambiarte a la carpeta public_html. Un cliente open source muy popular es FileZilla.

Estado	Método	Dominio	Archivo	Iniciador	Tipo	Transferido	Tamaño	Transf. ms	Res. ms	WS	Otros	Desactivar caché	Sin limitación
301	GET	void.ugr.es	/	document	html	1.44 KB	2.81 KB	4 ms	26.48 s	46.96 s	1.02 min		1.37 min
200	GET	void.ugr.es	/	document	html	1.48 KB	2.81 KB	35 ms					
404	GET	void.ugr.es	favicon.ico	FaviconLoader.sys.mis.175 (img)	html	528 B	274 B						6 ms

3 solicitudes | 5.89 KB / 3.45 KB transferido | Finalizado: 1.31 min | DOMContentLoaded: 1.30 min | load: 1.30 min

Podemos ver que realiza una redirección de http a https. Si desglosamos la segunda cabecera, podemos ver que Server: Apache/2.4.52(Ubuntu) , indicandonos que se trata de un servidor apache en ubuntu. Por otro lado, vemos que también se hace una petición para descargar el icono de página.

Página de inicio | Universitat de Granada

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Estado	Método	Dominio	Archivo	Iniciador	Tipo	Transferido	Tamaño	Transf. ms	Res. ms	WS	Otros	Desactivar caché	Sin limitación
200	GET	www.ugr.es	/	document	html	21.87 KB	105.28 KB						
200	GET	www.googletagmanager.com	js?id=UA-4060598-1	script									
200	GET	analticasweb.ugr.es	matomo.js	text/javascript									
200	GET	www.ugr.es	css_kHtlqyEWp7ZzhfGcJQ81BKORXpm5W5ltzbuuElrw.css	stylesheet	css	6.02 KB	23.21 KB						
200	GET	www.ugr.es	css_NIAaxfrjWe6YfCbaMhdF034800qj2OrAl3E.css	stylesheet	css	81.23 KB	715.84 KB						
200	GET	www.ugr.es	modernizr.min.js?v=3.1	script	js	2.65 KB	4.68 KB						
200	GET	www.ugr.es	js_WIVWWSOyrhNsIyuCi7nOh-zkpnyUjkMlc957vupB4.js	script	js	86.94 KB	285.05 KB						
200	GET	www.ugr.es	ugr-horizontal-colors.svg	img	svg	187.43 KB	186.92 KB						
200	GET	www.ugr.es	banner_gruposIA_1.webp?itok=rYtLzAChz	image-set	webp	72.38 KB	71.88 KB						
200	GET	www.ugr.es	destacado-web-ayudas-voluntariado-internacional.webp?itok=Mz-EjxW9	image-set	webp	43.41 KB	42.91 KB						
200	GET	www.ugr.es	banner-central-conoce-la-ugr.webp?itok=t67_Fjw	image-set	webp	73.39 KB	72.90 KB						
200	GET	www.ugr.es	Foto MA Cuadrado Ruiz.webp?itok=eefc2711&itok=JaXV2kvt	image-set	webp	11.16 KB	10.66 KB						
200	GET	www.ugr.es	Foto de grupo Investigadores UGR.webp?itok=40275c406&itok=MqrKrv_K	image-set	webp	32.74 KB	32.26 KB						
200	GET	www.ugr.es	Imagen-exhumacion-asesinas-franquista-Viznar_1746735549_172435583_1200	image-set	webp	21.85 KB	21.37 KB						
200	GET	www.ugr.es	medicina_03.webp?itok=W2V994f6	image-set	webp	13.55 KB	13.05 KB						
200	GET	www.ugr.es	Portada libro mes Saramago.webp?itok=1VP5NH06	image-set	webp	32.73 KB	32.23 KB						
200	GET	www.ugr.es	Captura-de-pantalla-2024-02-06-a-las-8-17-28-579x2024.webp?itok=YKgMMyWF	image-set	webp	16.14 KB	15.64 KB						
200	GET	www.ugr.es	banner-acuerdos-organicos_1_0_1_0_0_1.jpg	img	jpeg	29.56 KB	29.07 KB						
200	GET	www.ugr.es	banner-plan-director-2024.jpg	img	jpeg	45.20 KB	44.70 KB						
200	GET	www.ugr.es	banner-manifestos.jpg	img	jpeg	66.14 KB	65.65 KB						
200	GET	www.ugr.es	cruse-universidades.png	img	png	19.58 KB	19.09 KB						
200	GET	www.ugr.es	banner-infogra.png	img	png	7.53 MB	7.53 MB						
200	GET	www.ugr.es	raiz_webp?itok=mIbAuvFw	image-set	webp	4.63 KB	4.14 KB						
200	GET	www.ugr.es	la_luz_azul.webp?itok=rn3bTORK	image-set	webp	2.80 KB	2.30 KB						
200	GET	www.ugr.es	montes_webp?itok=qXEQ5Qfx	image-set	webp	2.80 KB	2.31 KB						
200	GET	www.ugr.es	horizonte-y-centenario.webp?itok=e16869f5&itok=x7o6qw-0	image-set	webp	12.41 KB	11.92 KB						
200	GET	www.ugr.es	investigadora.webp?itok=06fffae9&itok=caj_5w20	image-set	webp	7.30 KB	6.80 KB						
200	GET	www.ugr.es	estudiantes_fuente_nueva_atemporal.webp?itok=spGnPry-J	image-set	webp	19.37 KB	18.88 KB						
200	GET	www.ugr.es	grupo-estudiantes-internacional_0.webp?itok=tHW_lQDmV	image-set	webp	11.63 KB	11.13 KB						
200	GET	www.ugr.es	patio-hospital-real-fuente-puerta_atemporal.webp?itok=XuMzIHT	image-set	webp	13.91 KB	13.42 KB						
200	GET	www.ugr.es	imagen_web_ods-ugr.webp?itok=63579f26&itok=zmr4fqK5	image-set	webp	8.94 KB	8.44 KB						
200	GET	www.ugr.es	index.html	html	html	119.65 kB	119.10 kB						

69 solicitudes | 11.04 MB / 9.69 MB transferido | Finalizado: 1.87 s | DOMContentLoaded: 137 ms | load: 1.63 s

Podemos ver que esta página web hace muchas solicitudes, para descargar todo los recursos necesarios de la página. En la cabecera podemos ver que se trata de un servidor nginx .

Screenshot of a browser developer tools Network tab showing requests for upm.es. The table lists various resources like CSS, JS, and images being loaded.

Estado	Método	Dominio	Archivo	Initiador	Tipo	Transferido	Tamaño
301	GET	upm.es	/		document	html	6.44 KB
302	GET	upm.es	/		document	html	6.48 KB
200	GET	www.upm.es	/		document	html	6.61 KB
200	GET	www.googletagmanager.com	js?id=UA-10874068-3		script		Bloqueado por AdBlock U...
200	GET	www.upm.es	bootstrap.min.css		stylesheet	css	18.47 KB
200	GET	www.upm.es	font-awesome.min.css		stylesheet	css	6.99 KB
200	GET	www.upm.es	style.css		stylesheet	css	3.81 KB
200	GET	www.upm.es	jquery-3.11.1.min.js		script	js	33.57 KB
200	GET	www.upm.es	bootstrap.min.js		script	js	8.88 KB
200	GET	www.upm.es	upm.min.js		script	js	1.24 KB
200	GET	www.upm.es	institutional.png		img	png	13.21 KB
200	GET	www.upm.es	celista.png		img	png	4.07 KB
200	GET	www.upm.es	CruceConUcrania.png		img	png	4.68 KB
200	GET	www.upm.es	SFS09363		img	jpeg	60.52 KB
200	GET	www.upm.es	SFS09125		img	jpeg	140.66 KB
200	GET	www.upm.es	SFS08480		img	jpeg	215.49 KB
200	GET	www.upm.es	SFS02971		img	jpeg	295.77 KB
200	GET	www.upm.es	SFS02972		img	jpeg	248.80 KB
200	GET	www.upm.es	SFS03344		img	jpeg	236.74 KB
200	GET	www.upm.es	SFS05852		img	jpeg	240.33 KB
200	GET	www.upm.es	SFS07572		img	jpeg	5.49 KB
200	GET	www.upm.es	SFS07562		img	jpeg	12.15 KB
200	GET	www.upm.es	SFS07571		img	jpeg	5.24 KB
200	GET	www.upm.es	SFS07573		img	jpeg	25.99 KB
200	GET	www.upm.es	SFS10167		img	jpeg	25.89 KB
200	GET	www.upm.es	SFS10169		img	jpeg	54.43 KB
200	GET	www.upm.es	SFS10130		img	jpeg	39.90 KB
200	GET	www.upm.es	SFS10076		img	jpeg	15.08 KB
200	GET	www.upm.es	icon_pv.png		img	png	1.99 KB
200	GET	www.upm.es	icon_UPDrive.png		img	png	1.09 KB
200	GET	www.upm.es	crtue20.png		img	png	2.51 KB
200	GET	www.upm.es	favicon.ico		image	ico	6.33 KB

55 solicitudes | 3.40 MB / 2.14 MB transferido | Finalizado: 4.91 s | DOMContentLoaded: 1.09 s | load: 1.54 s

Vemos que hace una redirección de http a https, además, el código 302 de la segunda petición, indica una redirección a una nueva ubicación temporal. Podemos ver que se trata de un servidor Apache y, como en el caso anterior, hace múltiples peticiones para conseguir todos los recursos necesarios.

Screenshot of a browser developer tools Network tab showing requests for xkcd.com. The table lists various resources being loaded.

Estado	Método	Dominio	Archivo	Initiador	Tipo	Transferido	Tamaño
301	GET	xkcd.com	/		document	html	3.28 KB
200	GET	xkcd.com	/		document	html	3.45 KB
200	GET	xkcd.com	7d94e0.css		stylesheet	css	1.84 KB
200	GET	xkcd.com	0b7742.png		img	png	11.45 KB
200	GET	imgs.xkcd.com	geographic_qualifiers.png		imageset	png	64.91 KB
200	GET	imgs.xkcd.com	a899e84.jog		img	jpeg	21.91 KB
200	GET	imgs.xkcd.com	temperature.png		img	png	28.14 KB
200	GET	xkcd.com	919f27.ico	FaviconLoader.sys.mis_175 (...)	image	ico	1.26 KB

8 solicitudes | 145.03 KB / 136.24 KB transferido | Finalizado: 472 ms | DOMContentLoaded: 266 ms | load: 400 ms

Podemos ver que también se produce una redirección de http a https. Es un servidor nginx , Via: 1.1 varnish y X-Served-By: cache-mad22057-MAD . Hace alguna petición extra para

obtener algunos recursos.

The screenshot shows the Network tab of a browser developer tools interface. It lists numerous requests made to the domain `medium.com`. The requests include various file types such as HTML, CSS, JS, and images. Many requests are labeled as being blocked by AdBlocker. The total number of requests is 52, with a total transfer size of 2.91 MB and a total load time of 464 ms.

Estado	Método	Dominio	Archivo	Iniciador	Tipo	Transferido	Tamaño	
200	GET	medium.com	/		document	html	30.48 KB	141.12 KB
200	GET	glyph.medium.com	unbound.css		stylesheet	css	1.87 KB	19.44 KB
200	GET	static.cloudflareinsights.c...	v8d33a4012d94ce1a606ba8c167359c1e69673893317		script		Bloqueado por AdBlocker Un...	
200	GET	cdn-client.medium.com	manifest.64ea4174.js		script	js	6.50 KB	13.24 KB
200	GET	cdn-client.medium.com	30575e22bbb0.js		script	js	211.87 KB	675.27 KB
200	GET	cdn-client.medium.com	main.2d7a78ff.js		script	js	186.44 KB	785.25 KB
200	GET	cdn-client.medium.com	instrumentation.7c58a71f.chunk.js		script	js	2.08 KB	2.69 KB
200	GET	cdn-client.medium.com	reporting.2021ef63.chunk.js		script	js	1.42 KB	1.17 KB
200	GET	cdn-client.medium.com	4398d4d4378.chunk.js		script	js	3.50 KB	6.78 KB
200	GET	cdn-client.medium.com	78830e445e64.chunk.js		script	js	10.76 KB	22.93 KB
200	GET	cdn-client.medium.com	7603d47a8ff8.chunk.js		script	js	3.82 KB	7.52 KB
200	GET	cdn-client.medium.com	4711.043615ac.chunk.js		script	js	3.32 KB	8.68 KB
200	GET	cdn-client.medium.com	8695.00650a3d.chunk.js		script	js	5.35 KB	13.89 KB
200	GET	cdn-client.medium.com	4341.e6326f0a3d.chunk.js		script	js	10.44 KB	41.65 KB
200	GET	cdn-client.medium.com	5971.2c66ab13.chunk.js		script	js	6.25 KB	19.53 KB
200	GET	cdn-client.medium.com	5203.e7a20529.chunk.js		script	js	4.58 KB	17.45 KB
200	GET	cdn-client.medium.com	5465.24b0c72c.chunk.js		script	js	7.50 KB	28.41 KB
200	GET	cdn-client.medium.com	HomeLoLegacyMain.MainContent.1abb495e.chunk.js		script	js	16.92 KB	61.61 KB
200	GET	glyph.medium.com	gt-super-400-normal.woff		font	font-woff	14.04 KB	13.20 KB
200	GET	glyph.medium.com	somme-400-normal.woff		font	font-woff	13.61 KB	12.77 KB
200	GET	glyph.medium.com	somme-500-normal.woff		font	font-woff	13.48 KB	12.64 KB
200	GET	glyph.medium.com	somme-700-normal.woff		font	font-woff	13.67 KB	12.83 KB
200	GET	miro.medium.com	1\$sgduCOTGLnKoUbJh0A.png		lazy-img	png	2.73 KB	1.87 KB
200	GET	miro.medium.com	1\$je891jB1A1mz4dpemkd.jpg		lazy-img	jpeg	1.73 KB	844 B
200	GET	miro.medium.com	1\$Umx4ATjCj3ENRAzNlpw.jpeg		lazy-img	jpeg	2.16 KB	1.28 KB
200	GET	static.cloudflareinsights.c...	v8d33a4012d94ce1a606ba8c167359c1e69673893317		script		Bloqueado por AdBlocker Un...	
200	GET	miro.medium.com	1\$ifHtYhacCe2UcIU0gjWQ2.png		FaviconLoader.sys.mis.175 (...)	png	4.36 KB	3.49 KB
200	GET	miro.medium.com	1\$mr.R.BkH10qj1bybOjI2w.png		FaviconLoader.sys.mis.175 (...)	png	1.60 KB	737 B
200	POST	medium.com	/clientele/reports/performance/		main.2d7a78ff.js (fetch)	plain	1.59 KB	0 B
200	POST	medium.com	/clientele/reports/performance/		main.2d7a78ff.js (fetch)	plain	1.65 KB	0 B

En este caso vemos que no hay redirección de http a https. Podemos observar que realiza múltiples peticiones para obtener los diferentes recursos de la web.

The screenshot shows the Network tab of a browser developer tools interface. It lists numerous requests made to the domain `elDiario.es`. The requests include various file types such as HTML, CSS, JS, and images. The first request is a POST to `batch`, followed by a GET to the root. Subsequent requests include various files like `TDDJHSVkj.js`, `EncodeSans-Regular.9-28716402812809df86f7c5a7885.woff2`, and `Font Awesome 5.15.0`. The total number of requests is 95, with a total transfer size of 10.50 MB and a total load time of 693 ms.

Estado	Método	Dominio	Archivo	Iniciador	Tipo	Transferido	Tamaño	
301	POST	medium.com	batch		fetch	NS_BINDING_ABORTED		
301	GET	www.eldiario.es	/		document	html	68.64 KB	594.39 KB
200	GET	www.eldiario.es	/		document	html	68.71 KB	594.39 KB
200	POST	medium.com	/clientele/reports/performance/		fetch	NS_BINDING_ABORTED		
200	GET	cdn.insurards.com	TDDJHSVkj.js		script		Bloqueado por AdBlocker Un...	
200	GET	www.eldiario.es	EncodeSans-Regular.9-28716402812809df86f7c5a7885.woff2		font	octet-stream	60.44 KB	59.78 KB
200	GET	www.eldiario.es	EncodeSans-Medium.9-567a7fabc1e8e17d5d9576b9216.woff2		font	octet-stream	60.37 KB	59.71 KB
200	GET	www.eldiario.es	Encode-Sans-SemiBold-h-373c8582169ca9e9619159b3c10.woff2		font	octet-stream	60.57 KB	59.92 KB
200	GET	www.eldiario.es	Encode-Sans-Bold-h-3617893c10db97c1419ccfc6ced5.woff2		font	octet-stream	60.38 KB	59.73 KB
200	GET	www.eldiario.es	Sanomat-Bold-h-373c8582169ca9e9619159b3c10.woff2		font	octet-stream	37.34 KB	36.68 KB
200	GET	www.eldiario.es	Sanomat-Regular-h-4529067b31a8a569c13a0b13f31.woff2		font	octet-stream	36.89 KB	36.23 KB
200	GET	www.eldiario.es	icomoon.h-0ebc32b2b9f10958b23878569c8d674.woff		font	font-woff	6.77 KB	6.12 KB
200	GET	www.eldiario.es	ra-light-200-h-0f7cc017aee0e559b5957c0597c.woff2		font	octet-stream	146.51 KB	145.68 KB
200	GET	www.eldiario.es	fa-solid-900-h-a265b2c04a3e66045c078a08c41.woff2		font	octet-stream	111.55 KB	110.89 KB
200	GET	www.eldiario.es	typography-b3a8c7ad862bebfec028c5aaabe35e.css		stylesheet	css	14.91 KB	71.97 KB
200	GET	www.eldiario.es	vendor-h-32c10483d0de334144eb.js		script	js	485.54 KB	2.24 MB
200	GET	www.eldiario.es	app-h-33c10483d0de334144eb.js		script	js	22.16 KB	99.68 KB
200	GET	www.eldiario.es	app-h-33c10483d0de334144eb.css		stylesheet	css	104.51 KB	891.62 KB
200	GET	www.eldiario.es	edi-app-h-33c10483d0de334144eb.js		script	js	37.58 KB	318.09 KB
200	GET	www.eldiario.es	context-h-33c10483d0de334144eb.js		script	js	1.36 KB	2.23 KB
200	GET	news.google.com	swg.js		script	js	61.61 KB	211.82 KB
200	GET	www.eldiario.es	manifest.h-d910511e7d009b1981e01e15cf1b2.js		script	js	1.24 KB	1.53 KB
200	GET	www.eldiario.es	user-h-33c10483d0de334144eb.js		script	js	2.77 KB	5.45 KB
200	GET	www.eldiario.es	eldiario-timeline-2-h-129b361feef4a9f98135d8199ea.svg		img	svg	13.79 KB	13.31 KB
200	GET	www.eldiario.es	lightbox-close-h-129b37a636fe82623e092875483b7.svg		img	svg	978 B	505 B
200	GET	www.eldiario.es	gallery-video-h-2e826467718e0adcb33a0dbd1746f63.svg		img	svg	1.05 KB	580 B
200	GET	www.eldiario.es	eldiario_exclusive-h-1a0f4bd0d70893170803c3c2312fb.svg		img	svg	1.09 KB	617 B
200	GET	static.eldiario.es	164c07b62b398-4174b40-6bb027f62ae_source-aspect-ratio_default_0.png		img	jpeg	51.62 KB	51.04 KB
200	GET	static.eldiario.es	8686db6c4-ce2d-41d4-aaf4-08eex61594b4_source-aspect-ratio_default_0.png		img	jpeg	46.74 KB	46.16 KB
200	GET	static.eldiario.es	42fe4d79-1134-4c46-a14d-916a1916b0_source-aspect-ratio_default_0.png		img	jpeg	45.99 KB	45.41 KB

Vemos que hay dos redirecciones. La primera de http a https, y la segunda de dominio. También podemos observar que hace múltiples peticiones para obtener los recursos de la web.

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ACEPTAR 7:27

Filtrar las URL

Estado	Método	Dominio	Archivo	Iniciador	Tipo	Transferido	Tamaño	Cabeceras	Cookies	Solicitud	Respuesta	Tiempos	Seguridad
301	GET	www.larazon.es	/	document	html	138.85 KB	554.01 KB						Bloquear / Reenviar
200	GET	www.larazon.es	/	document	html	135.12 KB	554.01 KB						
200	GET	static.larazon.es	public-sans-regular.woff2	font	plain	13.81 KB	13.29 KB						
200	GET	static.larazon.es	public-sans-600.woff2	font	plain	13.93 KB	13.40 KB						
200	GET	static.larazon.es	public-sans-900.woff2	font	plain	13.95 KB	13.43 KB						
200	GET	static.larazon.es	ibm-plex-serif-regular.woff2	font	plain	19.23 KB	18.70 KB						
200	GET	static.larazon.es	ibm-plex-serif-500.woff2	font	plain	19.93 KB	19.40 KB						
200	GET	static.larazon.es	ibm-plex-serif-700.woff2	font	plain	19.55 KB	19.02 KB						
200	GET	static.larazon.es	lcomoon2.woff	font	plain	9.02 KB	16.75 KB						
200	GET	static.larazon.es	style_larazon.css?f2f57e2c220907012.css	stylesheet	css	107.24 KB	517.97 KB						
200	GET	fotografias.larazon.es	francina-armengol-presidenta-congreso-pleno-sesion-investidura-congreso-diputa	lazy-imageset	webp	29.24 KB	28.50 KB						
200	GET	www.larazon.es	apple-touch-icon.png	FaviconLoader.sys.mis.175 (...)	png	2.45 KB	1.74 KB						
200	GET	www.larazon.es	favicon-16x16.png	FaviconLoader.sys.mis.175 (...)	png	963 B	268 B						
200	GET	fotografias.larazon.es	portavoces-italiano-garibaldis-que-sera-dado-baja-2024-29.jpg?crop=876.876;x2	img	webp	5.69 KB	4.95 KB						
200	GET	fotografias.larazon.es	29.jpg?crop=767.767;x217,y0&width=150&optimize=hight&format=jpg	img	webp	5.69 KB	4.95 KB						
200	GET	fotografias.larazon.es	uss-gerald-ford-navegando-junto-uso-harry-truman-anterior-clase-nimitz_29.jpg?crop=34	img	webp	5.21 KB	4.47 KB						
200	GET	fotografias.larazon.es	estas-son-caracteres-cortadas-nieve-que-necesitano-uso-cadenas_29.jpg?crop=34	img	webp	5.76 KB	5.02 KB						
200	GET	cmp.sibbo.net	computacion-cuatica-herramienta-poderosa_29.jpg?crop=600.600;x200,y0&wid=	img	webp	3.90 KB	11.15 KB						
200	GET	cmp.sibbo.net	sibbo-cmp-router.js	script	js	34.09 KB	127.18 KB						
200	GET	cdnjs.atresmedia.com	main.e775fea5d6cec555909.js	script	js	17.04 KB	61.90 KB						
200	GET	cdnjs.atresmedia.com	gtm.js#id=GTM-WXGATP	.689 (script)				Bloqueado por AdBlocker Util...					
200	GET	cmp.sibbo.net	sibbo-cmp-larazon-es-config-web-v2.json	jsonp.sibbo-cmp-router.js:1 (xhr)	json	4.51 KB	7.51 KB						
200	GET	cdnjs.atresmedia.com	loadModules.97bf61277fafc0ddfa.js	main.e775fea5d6cec555909.js	js	979 B	313 B						
200	GET	cdnjs.atresmedia.com	vendors_module_loader.be121229781cd3be700.js	main.e775fea5d6cec555909.js	js	30.99 KB	105.38 KB						
200	GET	cdnjs.atresmedia.com	module_loader.17668496835b9171f181.js	main.e775fea5d6cec555909.js	js	6.23 KB	15.61 KB						
200	GET	cdnjs.atresmedia.com	cmpDataBlock.bf7b2a8b29a1fbac0b5.js	main.e775fea5d6cec555909.js	js	1.02 KB	447 B						
200	GET	es-config.sensic.net	s2s-web.js	line.1 > injectedScript (script)				Bloqueado por AdBlocker Util...					
200	GET	hits.larazon.es	/larazon-/634da1f3c418c0001dc90b/2/6150271/634d1a7f3c18c0001fd90b/	larazon.72879ee2895a3d5... (html)	html	514 B	0 B						
200	GET	cmp.sibbo.net	sibbo-cmp-loader-restricted-125.57.27.js	jsonp.sibbo-cmp-router.js (script)	js	68.29 KB	259.31 KB						
200	GET	cmp.sibbo.net	sibbo-cmp-larazon-es-config-web-v2.json	jsonp.sibbo-cmp-loader-restricted.js (json)	json	cacheado	7.51 KB						
200	GET	www.googletagmanager.com	gtm.js#id=GTM-WXGATP	.689 (script)				jsonp.sibbo-cmp-loader-restricted.js (script)	js	7.11 KB	6.44 KB		

63 solicitudes | 6.08 MB / 1.55 MB transferido Finalizado: 21.74 s DOMContentLoaded: 20.61 s load: 20.88 s

Podemos ver que hay una redirección de http a https. Por otro lado, se trata de un servidor nginx , via: 1.1 varnish y con x-served-by: cache-mad22074-MAD . La página realiza múltiples peticiones para descargar los diferentes recursos de la web.

EL PAÍS: el periódico global

personalización de contenidos. Accederá de forma gratuita a todo el contenido, salvo el exclusivo para suscriptores, de este sitio web mediante la aceptación de cookies y tecnologías similares de seguimiento.

y App, acceder a newsletters con contenidos exclusivos, a experiencias culturales únicas y comentar noticias.

Si decide suscribirse, y en virtud de las preferencias que otorgue, podrá, por

Filtrar las URL

Estado	Método	Dominio	Archivo	Iniciador	Tipo	Transferido	Tamaño	Cabeceras	Cookies	Solicitud	Respuesta	Tiempos	Seguridad
301	GET	elpais.es	/	document	html	83.29 KB	417.04 KB						
200	GET	elpais.com	/	document	html	83.87 KB	417.04 KB						
200	GET	static.elpais.com	Majrit-Text-Bold.woff2	font	octet-stream	32.39 KB	31.60 KB						
200	GET	static.elpais.com	Majrit-Text-Roman.woff2	font	octet-stream	28.34 KB	27.56 KB						
200	GET	static.elpais.com	marcianbt-regular-webfont.woff2	font	octet-stream	23.92 KB	23.13 KB						
200	GET	static.elpais.com	Majrit-text-bold-italic.woff2	font	octet-stream	28.04 KB	27.25 KB						
200	GET	static.elpais.com	Majrit-Text-Black.woff2	font	octet-stream	29.23 KB	28.44 KB						
200	GET	static.elpais.com	marcianbt-bold-webfont.woff2	font	octet-stream	23.78 KB	22.99 KB						
200	GET	cmp.prisa.com	cmp.ep.js	script	js	7.31 KB	24.24 KB						
200	GET	ep00.epimg.net	user.min.js?i=1	script	js	1.92 KB	3.18 KB						
200	GET	static.prisa.com	pmuser.min.js	script	js	24.12 KB	23.74 KB						
200	GET	static.elpais.com	ENP-section-front.js	script	js	183.31 KB	1.02 MB						
200	GET	contributor.google.com	loader.js	script	js	1.66 KB	0 B						
200	GET	arcsubscriptions.elpais.com	secureShareSession.js	script	js	1.83 KB	3.16 KB						
200	GET	static.elpais.com	el-pais.svg	img	svg	1.60 KB	1.92 KB						
200	GET	static.elpais.com	el-pais-logon-esp.svg	img	svg	2.89 KB	6.29 KB						
200	GET	fundinggolesmessages.google.com	AGSKsVwW4OH0hONMrnW5x_scJ2Ywch61PP591wCtLQjVTlkBzHvraAnxtghVjtjmxcNRNmUnz2DIVHjXZid_LZ (script)	js	62.75 KB	186.82 KB							
200	GET	imagenes.elpais.com	3K5W53GSVfCTBOTrV2C7644Y.jpg	lazy-imageset	avif	44.31 KB	43.83 KB						
200	GET	imagenes.elpais.com	PPNDMSLXMRAFL3LUWOKXF4DG6Q.jpg	lazy-imageset	avif	10.93 KB	10.45 KB						
200	GET	static.elpais.com	section-manual.css	stylesheet	css	42.39 KB	363.39 KB						
200	GET	static.elpais.com	e_subscription.svg	img	svg	1.04 KB	508 B						
200	GET	static.elpais.com	logo-cinco-dias.svg	img	svg	2.66 KB	5.24 KB						
200	GET	static.elpais.com	ico-subscription.svg	img	svg	1.49 KB	924 B						
200	GET	static.elpais.com	en_video.svg	img	svg	1.08 KB	550 B						
200	GET	static.elpais.com	colecciones_white.svg	img	svg	7.46 KB	22.25 KB						
200	GET	static.elpais.com	universo-ocio.svg	img	svg	1.82 KB	2.61 KB						
200	GET	static.elpais.com	Majrit-Text-Medium.woff2	font	octet-stream	29.62 KB	28.84 KB						
200	GET	static.elpais.com	Majrit-Text-Semibold.woff2	font	octet-stream	29.78 KB	29.00 KB						
200	GET	static.elpais.com	Majrit-Text-Bold-Italic.woff2	font	octet-stream	27.25 KB	0 ms						
200	GET	static.elpais.com	Majrit-Text-Semibold-Italic.woff2	font	octet-stream	32.99 KB	32.11 KB						
200	GET	static.elpais.com	marcianbt-regular-webfont.woff2	font	octet-stream	23.13 KB (raced)	23.13 KB						
200	GET	static.elpais.com	Main-Text-Bold.woff2	font	octet-stream	31.60 KB (raced)	31.60 KB						

73 solicitudes | 4.44 MB / 1.31 MB transferido Finalizado: 5.56 s DOMContentLoaded: 745 ms load: 2.08 s

Se produce una redirección de http a https y se producen múltiples peticiones para descargar los recursos.

Slack es tu plataforma

Utilizamos cookies para mejorar sus interacciones con nuestro sitio web. Nos ayudan a entender mejor cómo se utilizan nuestros sitios web para que podamos adaptar su contenido para usted. Para obtener más información, visite la política de privacidad.

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Estado	Método	Dominio	Archivo	Iniciador	Tipo	Transferido	Tamaño	Cabeceras	Cookies	Solicitud	Respuesta	Tiempos	Seguridad
301	GET	slack.com	/	document	html	19.89 KB	151.77 KB						
302	GET	slack.com	/	document	html	20.89 KB	151.77 KB						
200	GET	slack.com	/intl/es-es/	document	html	20.80 KB	151.77 KB						
200	GET	reveal.clearbit.com	revealvariable=revealAuthorization=pk_7144fdb90a0dd9c89e1395fd4171a3	script				Bloqueado por AdBlocker URL...					
200	GET	a.slack-edge.com	manifest.55d4f21a82429156fd.marketing.min.js	script	js	1.76 KB	1.87 KB						
200	GET	a.slack-edge.com	marketing-translations_es-ES.edce6d6bc2bc1e5465c4.min.js	script	js	2.11 KB	2.72 KB						
200	GET	cdn.cookiejar.org	otsOKStub.js	script	js	7.74 KB	21.10 KB						
200	GET	a.slack-edge.com	rollup-spacesuit.css	stylesheet	css	10.01 KB	98.37 KB						
200	GET	a.slack-edge.com	rollup-product-u1s-custom.css	stylesheet	css	9.66 KB	39.85 KB						
200	GET	a.slack-edge.com	page_index_true_prospects.css	stylesheet	css	3.55 KB	16 KB						
200	GET	a.slack-edge.com	swiper.css	stylesheet	css	4.72 KB	13.19 KB						
200	GET	a.slack-edge.com	onetrust-banner.css	stylesheet	css	1.83 KB	3.86 KB						
200	GET	d34ubcrftuknix.cloudfront...	11179690159.js	script	js	126.70 KB	536.59 KB						
200	GET	a.accounts.google.com	client	script	js	84.62 KB	218.93 KB						
200	GET	a.slack-edge.com	slack-salesforce-logo-naw-white.png	imageset	png	2.26 KB	1.57 KB						
200	GET	a.slack-edge.com	slack-salesforce-logo-naw-black.png	imageset	png	2.24 KB	1.54 KB						
302	GET	slack.com	img/nav-feature-slack@2x.png	img	png	5.89 KB	4.91 KB						
302	GET	slack.com	promo-solutions@2x.png	img	png	131.10 KB	130.15 KB						
302	GET	slack.com	navestate-of-work@2x.png	img	jpeg	66.71 KB	65.75 KB						
200	GET	a.slack-edge.com	la4-hero-product-u1-es-ES.jpg	img	jpeg	202.74 KB	202.04 KB						
200	GET	a.slack-edge.com	speed-mobile-es-ES.png	imageset	png	16.33 KB	15.57 KB						
200	GET	a.slack-edge.com	flexibility-es-ES.png	imageset	png	48.07 KB	47.31 KB						
200	GET	a.slack-edge.com	connectedness-mobile-es-ES.png	imageset	png	31.74 KB	30.98 KB						
200	GET	a.slack-edge.com	emoji-handshake.png	imageset	png	4.51 KB	3.76 KB						
200	GET	a.slack-edge.com	emoji-lock.png	imageset	png	3.95 KB	3.19 KB						
200	GET	a.slack-edge.com	emoji-woman-technologist.png	imageset	png	4.61 KB	3.85 KB						
200	GET	a.slack-edge.com	emoji-office-building.png	imageset	png	3.59 KB	2.84 KB						
200	GET	a.slack-edge.com	emoji-skyline.png	imageset	png	3.61 KB	2.85 KB						
200	GET	a.slack-edge.com	emoji-chart-upward-trend.png	imageset	png	3.47 KB	2.71 KB						
200	GET	a.slack-edge.com	rollup-marketing_rdf9550830765b655ba.marketing.min.js	script	js	295.10 KB	995.27 KB						
200	GET	a.slack-edge.com	marketing-cone_31c8c432d7af89c1ac.marketing.min.js	script	js	38.69 KB	105.39 KB						
200	GET	a.cisco.com	partner-fa81e49a363d639f837marketingmin.js	script	js	44.61 KB	161.67 KB						

97 solicitudes | 13.72 MB / 7.65 MB transferido | Finalizado: 11.86 s | DOMContentLoaded: 1.24 s | load: 2.84 s

Se producen dos redirecciones, una de http a https y otra de cambio de dominio permanente. Por otro lado, vemos que se trata de un servidor apache, via: 1.1 slack-prod.tinyspeck.com, envoy-www-iad-rvzeumxq, envoy-edge-lhr-jzhgzlgf, que realiza múltiples peticiones para descargar los recursos de la web.

Inicio

https://www.cni.es

Este sitio web utiliza **cookies propias** y de terceros para el correcto funcionamiento y visualización del sitio web por parte del usuario, así como la recogida de estadísticas. Si continua navegando, consideraremos que acepta su uso. Puede cambiar la configuración u obtener más información. [Política de cookies](#) [Política de privacidad](#)

[Recharzar](#) [Permitir cookies](#) [Permitir todas las cookies](#)

Ajustes de cookies: Nuevas Preferencias

Estado	Método	Dominio	Archivo	Iniciador	Tipo	Transferido	Tamaño	Cabeceras	Cookies	Solicitud	Respuesta	Tiempos	Seguridad
301	POST	www.youtube-nocookie.com	log_event?alt=json&key=AlzSyAO_FjZSqIUbQ4STEHLGClw_Y9_11qcW8	www.embed-player.js-909 (x...)	document	html	52.03 KB	185.00 KB	Bloqueado por AdBlocker URL...				
200	GET	cni.es	/	document	html	52.31 KB	185.00 KB						
200	POST	play.google.com	log?hasfast=true&authuser=0&format=json	beacon				Bloqueado por AdBlocker URL...					
200	POST	www.youtube-nocookie.com	log_event?alt=json&key=AlzSyAO_FjZSqIUbQ4STEHLGClw_Y9_11qcW8	xhr				Bloqueado por AdBlocker URL...					
200	POST	play.google.com	log(format=json&hasfast=true&authuser=0)	xhr				Bloqueado por AdBlocker URL...					
200	POST	play.google.com	log(format=json&hasfast=true&authuser=0)	xhr				Bloqueado por AdBlocker URL...					
200	GET	www.cni.es	template_min.css?2268d141be36db0bc7eeed31201b8c	stylesheet	css	987 B	649 B						
200	GET	www.cni.es	cookieconsent_min.css?7276bd14e1be36db0bc7eeed31201b8c	stylesheet	css	6.88 KB	25.22 KB						
200	GET	www.cni.es	jquery.hanonymus_min.css?2268d141be36db0bc7eeed31201b8c	stylesheet	css	4.30 KB	14.69 KB						
200	GET	www.cni.es	font-awesome-5.15.0.css?19c505e35ed1e9b737004c46bc61c6	stylesheet	css	13.41 KB	58.22 KB						
200	GET	www.cni.es	font-awesome-v4-shims_min.css?19c505e35ed1e9b737004c46bc61c6	stylesheet	css	4.95 KB	26.70 KB						
200	GET	www.cni.es	animate_min.css?19c505e35ed1e9b737004c46bc61c6	stylesheet	css	5.63 KB	70.89 KB						
200	GET	www.cni.es	spagebuilder.css?19c505e35ed1e9b737004c46bc61c6	stylesheet	css	28.02 KB	181.43 KB						
200	GET	www.cni.es	magnific-popup.css	stylesheet	css	2.43 KB	5.92 KB						
200	GET	www.cni.es	page-1.css	stylesheet	css	2.93 KB	25.70 KB						
200	GET	www.cni.es	core_min.js?7576eb51da909dcf692c98643fa6cf89629ead18	script	js	3.90 KB	7.71 KB						
200	GET	www.cni.es	jquery.noConflict_min.js?704499b9c0305b16373dff0fe79d1290976288	script	js	31.86 KB	89.95 KB						
200	GET	www.cni.es	script_min.js?75.2.3	script	js	778 B	26 B						
200	GET	www.cni.es	script_min.js?75.2.3	script	js	1.40 KB	1.27 KB						
200	GET	www.cni.es	script_min.js?75.2.3	script	js	1.31 KB	1.07 KB						
200	GET	www.cni.es	button_min.js?75.2.3	script	js	3.28 KB	7.35 KB						
200	GET	www.cni.es	carousel_min.js?75.2.3	script	js	2.47 KB	5.04 KB						
200	GET	www.cni.es	collapse_min.js?75.2.3	script	js	3.52 KB	8.17 KB						
200	GET	www.cni.es	dropdown_min.js?75.2.3	script	js	3.47 KB	8.43 KB						
200	GET	www.cni.es	modal_min.js?75.2.3	script	js	2.40 KB	4.68 KB						
200	GET	www.cni.es	officanvas_min.js?75.2.3	script	js	4.43 KB	12.62 KB						
200	GET	www.cni.es	popover_min.js?75.2.3	script	js	2.63 KB	4.97 KB						
200	GET	www.cni.es	scrollsply_min.js?75.2.3	script	js	2.78 KB	6.06 KB						
200	GET	www.cni.es	tab_min.js?75.2.3	script	js	1.96 KB	3.45 KB						
200	GET	www.cni.es	toast_min.js?75.2.3	script	js	1.35 KB	1.28 KB						
200	GET	www.cni.es	finder_min.js?7c8b55661c6d2b978b6856090ad9258c4a0fc	script	js	1.63 KB	4.89 KB						

99 solicitudes | 5.70 MB / 4.04 MB transferido | Finalizado: 3.80 s | DOMContentLoaded: 1.29 s | load: 3.69 s

En esta última web, vemos que se produce una redirección de http a https. El servidor aparece como xxxxxxx y que realiza múltiples peticiones para descargar los recursos de la web.

Ejercicio 6: Envío de datos en un formulario GET

Nombre: danieeld22324 Clave: [REDACTED] Enviar

Estado	Método	Dominio	Archivo	Iniciador	Tipo	Transferido	Tamaño	Duración
200	GET	void.ugr.es	formulario.html	document	html	611 B	358 B	22 ms
404	GET	void.ugr.es	favicon.ico	FaviconLoader.sys.mjs	img	175	cacheado	274 B

Variables recibidas

Desde \$_GET

- nombre = danieeld22324
- password = jSLInUxfk8gd0sq
- enviar = Enviar

Desde \$_POST

Variables recibidas

Desde \$_GET

- nombre = danieeld22324
- password = jSLInUxfk8gd0sq
- enviar = Enviar

Desde \$_POST

Podemos ver desde la herramienta de desarrollador que se han enviado los datos desde una petición GET .

Terminal output (curl -v https://void.ugr.es/publico/procesar.php?nombre=danieeld2232&password=jSLInUxfk8gd0sq&envia):

```

daniel-Modern-15-87M: ~/Git
→ curl -v https://void.ugr.es/publico/procesar.php?nombre=danieeld2232&password=jSLInUxfk8gd0sq&envia
*   Trying 150.214.190.100:443...
* Connected to void.ugr.es (150.214.190.100) port 443 (#0)
* ALPN, offering h2
ALPN, offering http/1.1
CAfile: /etc/ssl/certs/ca-certificates.crt
CApath: /etc/ssl/certs
* TLSv1.3 (OUT), TLS header, Certificate Status (22):
* TLSv1.3 (OUT), TLS handshake, Client hello (1):
* TLSv1.2 (IN), TLS header, Certificate Status (22):
* TLSv1.3 (IN), TLS handshake, Server hello (2):
* TLSv1.2 (IN), TLS header, Finished (20):
* TLSv1.2 (IN), TLS header, Supplemental data (23):
* TLSv1.3 (IN), TLS handshake, Encrypted Extensions (8):
* TLSv1.2 (IN), TLS header, Supplemental data (23):
* TLSv1.3 (IN), TLS handshake, Certificate (11):
* TLSv1.2 (IN), TLS header, Supplemental data (23):
* TLSv1.3 (IN), TLS handshake, Change cipher spec (15):
* TLSv1.2 (IN), TLS header, Supplemental data (23):
* TLSv1.3 (IN), TLS handshake, Finished (20):
* TLSv1.2 (OUT), TLS header, Finished (20):
* TLSv1.3 (OUT), TLS change cipher, Change cipher spec (1):
* TLSv1.3 (OUT), TLS handshake, Finished (20):
* SSL connection using TLSv1.3 / TLS_AES_256_GCM_SHA384
* ALPN, server accepted to use http/1.1
Server certificate:
* subject: CN=void.ugr.es
* start date: Feb 16 10:16:33+00 2024 CHT
* expire date: Mar 16 16:33:19 2024 CHT
* subjectAltName: host "void.ugr.es" matched cert's "void.ugr.es"
* issuer: C=US; O=Let's Encrypt; CN=R3
* SSL certificate verify ok
* TLSv1.2 (OUT), TLS header, Supplemental data (23):
> GET /publico/procesar.php?nombre=danieeld2232 HTTP/1.1
> Host: void.ugr.es
> User-Agent: curl/7.81.0
> Accept: */
>
* TLSv1.2 (IN), TLS header, Supplemental data (23):
* TLSv1.3 (IN), TLS handshake, NewSession Ticket (4):
* TLSv1.2 (IN), TLS header, Supplemental data (23):
* TLSv1.3 (IN), TLS handshake, NewSession Ticket (4):
* old SSL session ID is stale, removing
* TLSv1.2 (IN), TLS header, Supplemental data (23):
* Mark bundle as not supporting multiuse
< HTTP/1.1 200 OK

```

Browser screenshot showing the received variables:

Variables recibidas

- nombre = **danieeld2232**
- password = **jSLInUxfk8gd0sq**
- enviar = **Enviar**

Desde \$_POST

Vemos que funciona de la misma forma desde comandos.

Ejercicio 7: Envío de datos en un formulario POST

Browser screenshot showing the received variables:

Variables recibidas

Desde \$_GET

Desde \$_POST

- nombre = **danieeld2232**
- password = **ERZotcnx2G4IXeOK**
- enviar = **Enviar**

Tras modificar y resubir la script, vemos que esta funciona correctamente.

Probamos a mandar datos en un POST con cURL:

Terminal

```
daniel-Modern-15-B7M: ~
→ curl -d nombre=Pepito -d password=laclave -d enviar=Enviar -v https://void.ugr.es/publico/procesar.php
*   Trying 150.214.190.100:443...
* Connected to void.ugr.es (150.214.190.100) port 443 (#0)
* ALPN, offering h2
* ALPN, offering http/1.1
* CAfile: /etc/ssl/certs/ca-certificates.crt
* CAPath: /etc/ssl/certs
* TLSv1.0 (OUT), TLS header, Certificate Status (22):
* TLSv1.3 (OUT), TLS handshake, Client hello (1):
* TLSv1.2 (IN), TLS header, Certificate Status (22):
* TLSv1.3 (IN), TLS handshake, Server hello (2):
* TLSv1.2 (IN), TLS header, Finished (20):
* TLSv1.2 (IN), TLS header, Supplemental data (23):
* TLSv1.3 (IN), TLS handshake, Encrypted Extensions (8):
* TLSv1.2 (IN), TLS header, Supplemental data (23):
* TLSv1.3 (IN), TLS handshake, Certificate (11):
* TLSv1.2 (IN), TLS header, Supplemental data (23):
* TLSv1.3 (IN), TLS handshake, CERT verify (15):
* TLSv1.2 (IN), TLS header, Supplemental data (23):
* TLSv1.3 (IN), TLS handshake, Finished (20):
* TLSv1.2 (OUT), TLS header, Finished (20):
* TLSv1.3 (OUT), TLS change cipher, Change cipher spec (1):
* TLSv1.2 (OUT), TLS header, Supplemental data (23):
* TLSv1.3 (OUT), TLS handshake, Finished (20):
* TLSv1.2 (OUT), TLS header, Supplemental data (23):
* SSL connection using TLSv1.3 / TLS_AES_256_GCM_SHA384
* ALPN, server accepted to use http/1.1
* Server certificate:
* subject: CN=void.ugr.es
* start date: Feb 16 16:33:20 2024 GMT
* expire date: May 16 16:33:19 2024 GMT
* subjectAltName: host "void.ugr.es" matched cert's "void.ugr.es"
* issuer: C=US; O=Let's Encrypt; CN=R3
* SSL certificate verify ok.
* TLSv1.2 (OUT), TLS header, Supplemental data (23):
> POST /publico/procesar.php HTTP/1.1
> Host: void.ugr.es
> User-Agent: curl/7.81.0
> Accept: */
> Content-Length: 44
> Content-Type: application/x-www-form-urlencoded
>
* TLSv1.2 (IN), TLS header, Supplemental data (23):
* TLSv1.3 (IN), TLS handshake, Newsession Ticket (4):
* TLSv1.2 (IN), TLS header, Supplemental data (23):
* TLSv1.3 (IN), TLS handshake, Newsession Ticket (4):
* old SSL session ID is stale, removing
* TLSv1.2 (IN), TLS header, Supplemental data (23):
* Mark bundle as not supporting multiuse
< HTTP/1.1 200 OK
< Date: Tue, 05 Mar 2024 09:04:32 GMT
< Server: Apache/2.4.52 (Ubuntu)
< Strict-Transport-Security: max-age=0
< Vary: Accept-Encoding
< Content-Length: 446
< Content-Type: text/html; charset=UTF-8
<
<!DOCTYPE html>
<html>
  <head>
    <meta charset="UTF-8">
    <title>Variables recibidas</title>
    <style type="text/css">
      .valor { color: red; }
    </style>
  </head>
  <body>
    <h1>Variables recibidas</h1><h2>Desde $_GET</h2><ul></ul><h2>Desde $_POST</h2><ul><li>nombre = <span class='valor'>Pepito</span></li><li>password = <span c
lass='valor'>laclave</span></li><li>enviar = <span class='valor'>Enviar</span></li></ul></body>
</html>
* Connection #0 to host void.ugr.es left intact
daniel-Modern-15-B7M: ~
→ █
```

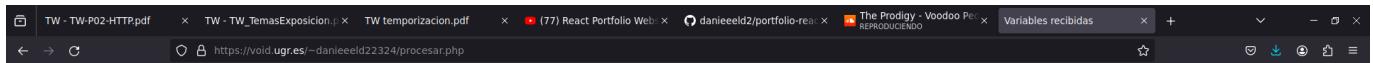
A screenshot of a macOS Terminal window. The title bar says "Terminal". The window contains the output of a curl command. The command is:

```
→curl -d "nombre=Pepito&password=laclave&enviar=Enviar" --trace-ascii - https://void.ugr.es/publico/procesar.php
```

The output shows the TLS handshake process between the client and the server. It includes details like the cipher suite used (TLSv1.3), the exchange of certificates, and the final encrypted communication. The terminal interface has a dark theme with standard macOS window controls.

Ejercicio 8: Autenticación básica con cURL

Tras subir los correspondientes archivos, vemos que funciona:



Variables recibidas

Desde \$_GET

Desde \$_POST

- nombre = `danieeld22324`
- password = `ERZotcnx2G4IXeOK`
- enviar = `Enviar`

Ahora vamos a probar con cURL:

```
+ Terminal
daniel-Modern-15-B7M: ~
→ curl --user danieeld22324:ERZotcnx2G4IXeOK -d "nombre=danieeld22324&password=ERZotcnx2G4IXeOK&enviar=Enviar" -v https://void.ugr.es/~danieeld22324/procesar.php
* Trying 150.214.190.100:443...
* Connected to void.ugr.es (150.214.190.100) port 443 (#0)
* ALPN, offering h2
* ALPN, offering http/1.1
* CAfile: /etc/ssl/certs/ca-certificates.crt
* Capath: /etc/ssl/certs
* TLSv1.0 (OUT), TLS header, Certificate Status (22):
* TLSv1.3 (OUT), TLS handshake, Client hello (1):
* TLSv1.2 (IN), TLS header, Certificate Status (22):
* TLSv1.3 (IN), TLS handshake, Server hello (2):
* TLSv1.2 (IN), TLS header, Finished (20):
* TLSv1.2 (IN), TLS header, Supplemental data (23):
* TLSv1.3 (IN), TLS handshake, Encrypted Extensions (8):
* TLSv1.2 (IN), TLS header, Supplemental data (23):
* TLSv1.3 (IN), TLS handshake, Certificate (11):
* TLSv1.2 (IN), TLS header, Supplemental data (23):
* TLSv1.3 (IN), TLS handshake, CERT verify (15):
* TLSv1.2 (IN), TLS header, Supplemental data (23):
* TLSv1.3 (IN), TLS handshake, Finished (20):
* TLSv1.2 (OUT), TLS header, Finished (20):
* TLSv1.3 (OUT), TLS change cipher, Change cipher spec (1):
* TLSv1.2 (OUT), TLS header, Supplemental data (23):
* TLSv1.3 (OUT), TLS handshake, Finished (20):
* SSL connection using TLSv1.3 / TLS_AES_256_GCM_SHA384
* ALPN, server accepted to use http/1.1
* Server certificate:
*   subject: CN=void.ugr.es
*   start date: Feb 16 16:33:20 2024 GMT
*   expire date: May 16 16:33:19 2024 GMT
*   subjectAltName: host "void.ugr.es" matched cert's "void.ugr.es"
*   issuer: C=US; O=Let's Encrypt; CN=R3
*   SSL certificate verify ok.
* Server auth using Basic with user 'danieeld22324'
* TLSv1.2 (OUT), TLS header, Supplemental data (23):
> POST /~danieeld22324/procesar.php HTTP/1.1
> Host: void.ugr.es
> Authorization: Basic ZGFuaWVlZWxkJzIzMjQ6RVJab3RjbngyRzRJWGVPSw==
> User-Agent: curl/7.81.0
> Accept: /*
> Content-Length: 61
> Content-Type: application/x-www-form-urlencoded
>
* TLSv1.2 (IN), TLS header, Supplemental data (23):
* TLSv1.3 (IN), TLS handshake, Newsession Ticket (4):
* TLSv1.2 (IN), TLS header, Supplemental data (23):
* TLSv1.3 (IN), TLS handshake, Newsession Ticket (4):
* old SSL session ID is stale, removing
* TLSv1.2 (IN), TLS header, Supplemental data (23):
* Mark bundle as not supporting multiuse
< HTTP/1.1 200 OK
< Date: Tue, 05 Mar 2024 09:21:44 GMT
< Server: Apache/2.4.52 (Ubuntu)
< Strict-Transport-Security: max-age=0
< Vary: Accept-Encoding
< Content-Length: 469
< Content-Type: text/html; charset=UTF-8
<
<!DOCTYPE html>
<html>
  <head>
    <meta charset="UTF-8">
    <title>Variables recibidas</title>
    <style type="text/css">
      .valor { color: red; }
    </style>
  </head>
  <body>
    <h1>Variables recibidas</h1><h2>Desde $_GET</h2><ul></ul><h2>Desde $_POST</h2><ul><li>nombre = <span class='valor'>danieeld22324</span></li><li>password = <span class='valor'>ERZotcnx2G4IXeOK</span></li><li>enviar = <span class='valor'>Enviar</span></li></ul>  </body>
</html>
* Connection #0 to host void.ugr.es left intact
```

Ejercicio 9: Envío de ficheros con cURL

```

daniel-Modern-15-87M: ~
curl -F "nombre=Pepito&password=laclave&enviar=Enviar" -F "imagen=@tux.jpg" https://void.ugr.es/publico/procesarfil.php > resultado.html
% Total % Received % Xferd Average Speed Time Time Current
100 16.7M 0 9818k 100 7363k 378k 283k 0:00:25 0:00:25 ---:--- 390k
daniel-Modern-15-87M: ~

```

Variables recibidas

Desde \$_GET

- nombre = Pepito&password=laclave&enviar=Enviar

Desde \$_POST

- nombre = Pepito&password=laclave&enviar=Enviar

Ficheros recibidos:

- imagen =


```

Array
(
    [name] => tux.jpg
    [full_path] => tux.jpg
    [type] => image/jpeg
    [tmp_name] => /tmp/phpn02t2L
    [error] => 0
    [size] => 7540195
)
      
```

Ejercicio 10: Búsqueda de autor

Primera Forma:

Si entramos en la web e intentamos buscar por autores, vemos que la url es de la forma:

```
https://openlibrary.org/search/authors?q=
```

Al hacer la búsqueda, colocando en nombre de Antonio Garrido Carrillo, vemos que, al clickar en el resultado buscado, la url pasa de

```
https://openlibrary.org/search/authors?q=antonio+garrido+carrillo
```

a la siguiente:

```
https://openlibrary.org/authors/OL12536697A/Antonio_Garrido_Carrillo
```

Investigando en la información de la API, vemos que el valor `OL12536697A` es la key de dicha autor. Con dicha key, podemos hacer una petición GET a la API

```
GET https://openlibrary.org/authors/OL25836A/works.json
```

y obtendríamos todo en formato JSON. Para hacerlo todo mediante cURL, el proceso sería el siguiente:

```
curl https://openlibrary.org/search/authors?q=antonio+garrido+carrillo | grep -i "author"
# Despues de filtrar por la palabra author, podemos encontrar facilmente el valor de la key
curl -v https://openlibrary.org/authors/OL25836A/works.json
# Con esto obtendriamos el json (la salida podria ser redirigida)
```

The screenshot shows a macOS Terminal window with the following content:

```
daniel-Modern-15:87M: ~
→ curl https://openlibrary.org/search/authors?q=antonio+garrido+carrillo | grep -i "author"
% Total    % Received % Xferd  Average Speed   Time     Time      Current
          Dload  Upload Total Spent  Left Speed
100 23152    0 23152    0    21639  0:00:01 --:--:-- 0:00:01
--:--> <a href="canonical" href="https://openlibrary.org/search/authors?q=antonio+garrido+carrillo" rel="canonical">
-- 21657<option value="author">author</option>

daniel-Modern-15:87M: ~
→ curl -v https://openlibrary.org/authors/OL25836A/works.json
* Trying 207.241.234.205:443...
* Connected to openlibrary.org (207.241.234.205) port 443 (#0)
* ALPN, offering h2
* ALPN, offering http/1.1
* CAfile: /etc/ssl/certs/ca-certificates.crt
* CApath: /etc/ssl/certs
* TLSv1.0 (OUT), TLS header, Certificate Status (22):
* TLSv1.0 (OUT), TLS handshake, Client hello (1):
* TLSv1.2 (IN), TLS header, Certificate Status (22):
* TLSv1.2 (IN), TLS handshake, Server hello (2):
* TLSv1.3 (IN), TLS handshake, FInished (20):
* TLSv1.2 (IN), TLS header, Supplemental data (23):
* TLSv1.2 (IN), TLS header, Encrypted Extensions (8):
* TLSv1.3 (IN), TLS header, Supplemental data (23):
* TLSv1.3 (IN), TLS handshake, Certificate (11):
* TLSv1.2 (IN), TLS header, Supplemental data (23):
* TLSv1.3 (IN), TLS handshake, CERT verify (15):
* TLSv1.2 (IN), TLS header, Supplemental data (23):
* TLSv1.3 (IN), TLS handshake, FInshed (20):
* TLSv1.2 (OUT), TLS header, FInshed (20):
* TLSv1.3 (OUT), TLS change cipher, change cipher spec (1):
* TLSv1.2 (OUT), TLS header, Supplemental data (23):
* TLSv1.3 (OUT), TLS handshake, FInshed (20):
* SSL connection using TLSv1.3  TLS_AES_256_GCM_SHA384
* ALPN, server accepted to use h2
Server certificate:
subject: CN=www.openlibrary.org
start date: Jan 11 16:41:57 2024 GMT
expire date: Apr 10 16:41:56 2024 GMT
subjectAltName: host "openlibrary.org" matched cert's "openlibrary.org"
issuer: C=US; O=Let's Encrypt; CN=R3
SSL certificate verify ok.
* Using HTTP2, server supports multiplexing
* Connection state changed (HTTP/2 confirmed)
* Covnving HTTP/2 data in stream buffer to connection buffer after uprade: len=0
```

The terminal window has a dark theme. At the bottom, there is a dock with various application icons. The status bar at the bottom right shows the date and time: "5 de mar 15:58".

Como vemos, son dos solicitudes GET .

Segunda Forma:

Esta forma es parecida, pero cambiamos el primer paso. Si conocemos algún libro de dicho autor, podemos tomar el ISBN13 y hacer una petición `GET` a la API de la siguiente forma:

```
curl -v https://openlibrary.org/api/books?bibkeys=ISBN:9788433863362
```

En la salida, obtendremos lo siguiente:

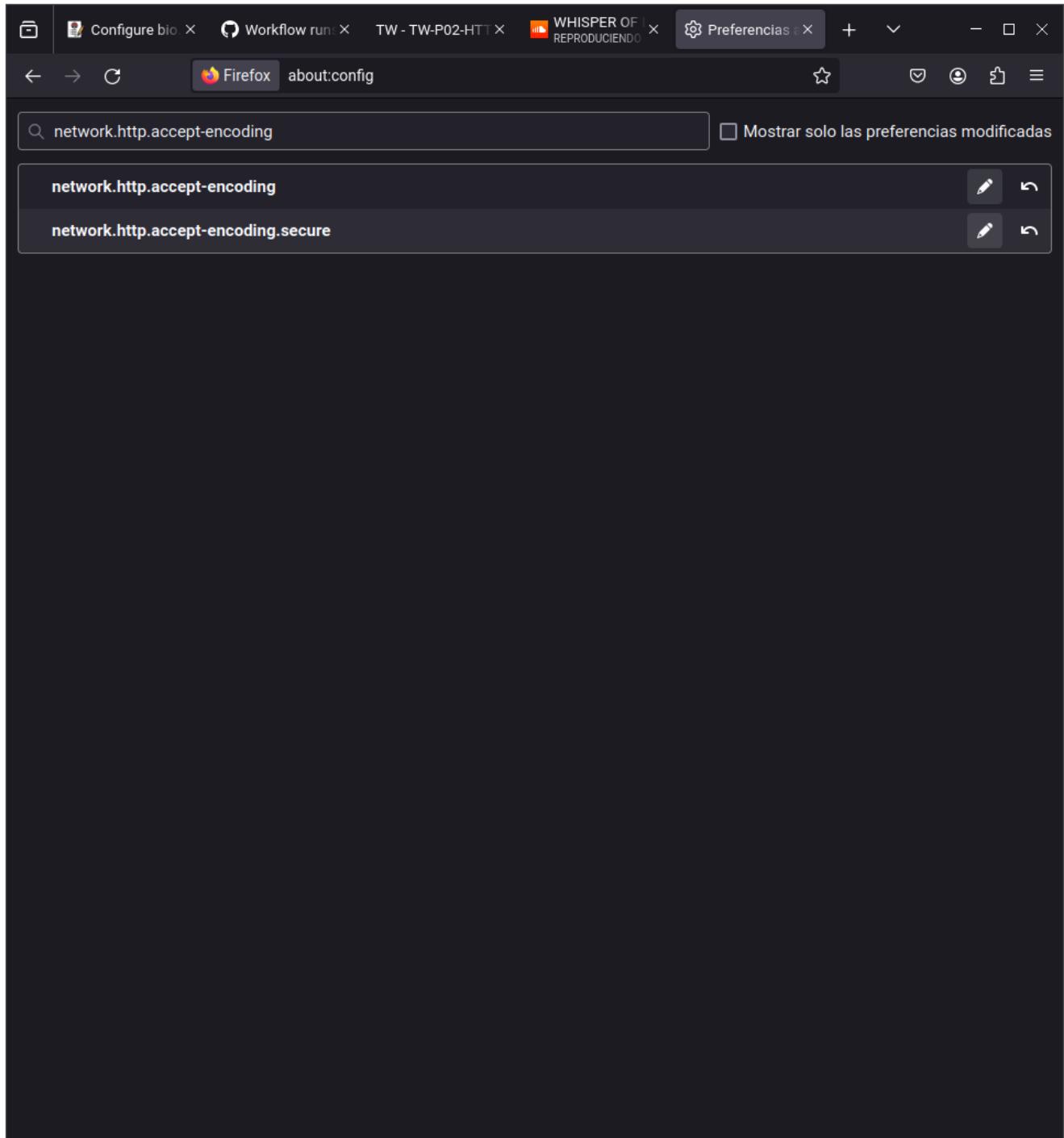
```
var _OLBookInfo = {"ISBN:9788433863362": {"bib_key": "ISBN:9788433863362", "info_url": "https://openlibrary.org/books/OL47096624M/Estructuras_de_datos_avanzadas_con_soluciones_en_C", "preview": "noview", "preview_url": "https://openlibrary.org/books/OL47096624M/Estructuras_de_datos_avanzadas_con_soluciones_en_C", "thumbnail_url": "https://covers.openlibrary.org/b/id/13468530-S.jpg"}};
```

y de aquí podemos sacar el código de autor como antes, para proceder como en la forma anterior.

Ejercicio 11: Monitorizar el tráfico de red

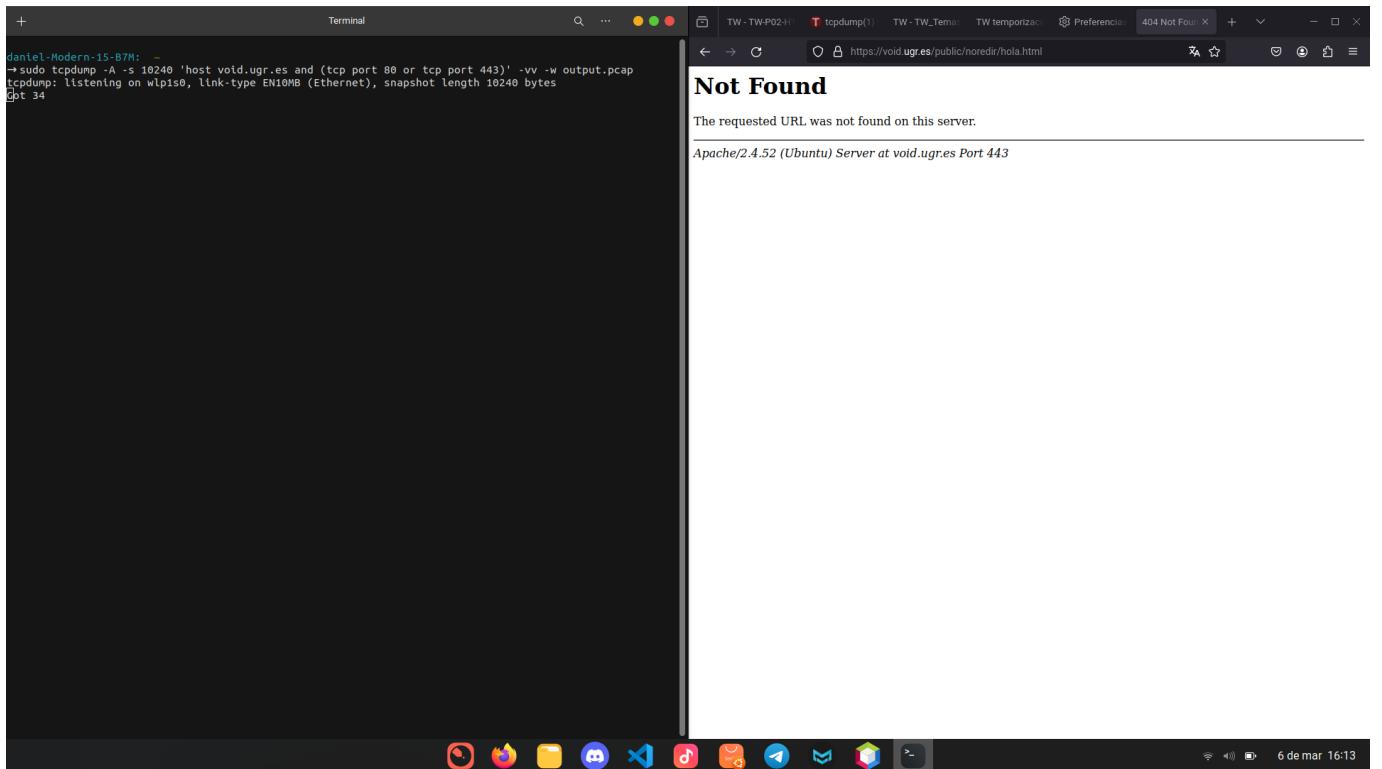
Mirando la documentación oficial, que podemos encontrar [aquí](#), vemos que el comando presenta una gran cantidad de posibles parámetros. Los más interesantes son:

- `-A` : Imprime cada paquete en ASCII y es muy útil para capturar páginas webs
 - `-s` : Snaplen, es decir, cantidad de bytes que se quiere guardar por cada paquete
 - `-v` , `-vv` , `-vvv` : Vebose output
 - `-n` : Mejora rendimiento, evitando la resolución inversa de DNS
 - `-w` : Para guardar el trafico en un documento y analizarlo después de forma más sencilla



Después tiene algunos para indicar la cantidad de paquetes que quiere leer, por si no te interesa ver todo el tráfico, leer paquetes de un fichero, mirar checksums...

```
sudo tcpdump -A -s 10240 'host void.ugr.es and (tcp port 80 or tcp port 443)' -vv -w output.pcap
```



Vamos a visualizar la informacion ahora con

```
tcpdump -r output.pcap -A
```

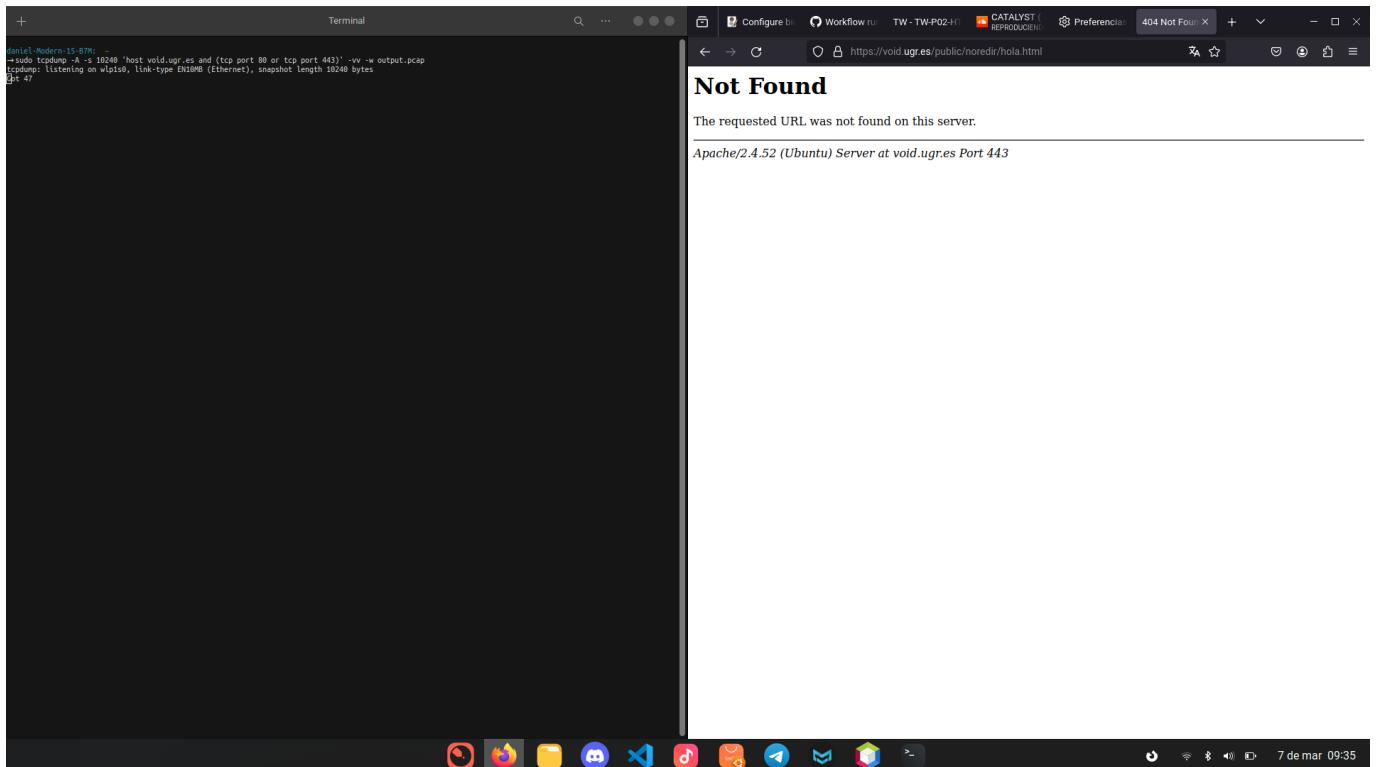
```

daniel-Modern-15-B7M: ~
→ tcpdump -r output.pcap -A
reading from file output.pcap, link-type EN10MB (Ethernet), snapshot length 10240
09:29:18.889986 IP daniel-GL63-8SE.home.59324 > void.ugr.es.http: Flags [S], seq 4198006115, win 64240, options [mss 1460,sackOK,TS val 1165872907 ecr 0,nop,wscale 7], length 0
E..<R^0.0....\...d...P.8}c.....E}.....
09:29:18.905729 IP daniel-GL63-8SE.home.59336 > void.ugr.es.http: Flags [S], seq 26919749, win 64240, options [mss 1460,sackOK,TS val 1165872923 ecr 0,nop,wscale 7], length 0
E..<.0.0.*....\...d...P..E.....t>.....E}.....
09:29:18.911464 IP daniel-GL63-8SE.home.54042 > void.ugr.es.https: Flags [S], seq 2145466282, win 64240, options [mss 1460,sackOK,TS val 1165872929 ecr 0,nop,wscale 7], length 0
E..<|0.0!....\...d.....7.....E}!.....
09:29:18.923866 IP void.ugr.es.http > daniel-GL63-8SE.home.59324: Flags [S.], seq 104402341, ack 4198006116, win 65160, options [mss 1460,sackOK,TS val 3106483199 ecr 1165872907,nop,wscale 7], length 0
E..<.|0.6.-}...d...|\P...9..8}d.....E}.....
09:29:18.923939 IP daniel-GL63-8SE.home.59324 > void.ugr.es.http: Flags [.], ack 1, win 502, options [nop,nop,TS val 1165872941 ecr 3106483199], length 0
E..4R_0.0.%....\...d...P.8}d.....*.....E}.....
09:29:19.053918 IP void.ugr.es.http > daniel-GL63-8SE.home.59336: Flags [S.], seq 1101769410, ack 26919750, win 65160, options [mss 1460,sackOK,TS val 3106483212 ecr 1165872923,nop,wscale 7], length 0
E..<.|0.6.-}...d...|\P..A.....F.....E}.....
09:29:19.053982 IP daniel-GL63-8SE.home.59336 > void.ugr.es.http: Flags [.], ack 1, win 502, options [nop,nop,TS val 1165873071 ecr 3106483212], length 0
E..4..0.0.*....\...d...P..FA.....E}.....
09:29:19.053918 IP void.ugr.es.https > daniel-GL63-8SE.home.54042: Flags [S.], seq 3433071967, ack 2145466283, win 65160, options [mss 1460,sackOK,TS val 3106483217 ecr 1165872929,nop,wscale 7], length 0
E..<.|0.6.-}...d...|\...7.....Y.....E}!.....
09:29:19.054001 IP daniel-GL63-8SE.home.54042 > void.ugr.es.https: Flags [.], ack 1, win 502, options [nop,nop,TS val 1165873071 ecr 3106483217], length 0
E..4..0.0.*....\...d.....7.....E}.....
09:29:19.055140 IP daniel-GL63-8SE.home.54042 > void.ugr.es.https: Flags [P.], seq 1:831, ack 1, win 502, options [nop,nop,TS val 1165873072 ecr 3106483217], length 830
E..r~0.0....\...d.....7.....E}.....
E..9...5.R]A...R:$.R.....void.ugr.es.....http/1.1.....h2.....3.k.i....1.wYawB'I.X.x.*....I..A..X..XMqv.)<.$..*M....3./i.....w..6....N.`.LPo..t?...Vkl.t.+.....0..y....%..0.11x.yrgLw.....@.h...0..p.x1.....t=.....XU..K..A...(X.q..GS.Q.+.....Q.....;P... ..G@.....6..d.m.+(.5.[8..a.8..L.K^..s..D..r.#.S<yK.clS.j|..2.i..X..D..N..3..l!f()0J.tj...Q....A..l..2 6%.].$..b.7..{9)8.S,P.....!..j>....w.....txWf..38..K..Z...."G..U....(P..4*..LH..t^..!..Q..i..N..Q%..Z.!....g..$..=..nM..J..)K..w..I..G..n.T1m..5..H..dj...2z ..)! ..2.w?..l..&V]Q..0..s..2..^g7
09:29:19.082721 IP void.ugr.es.https > daniel-GL63-8SE.home.54042: Flags [.], ack 831, win 503, options [nop,nop,TS val 3106483363 ecr 1165873072], length 0
E..4HF0.6..>..d...|\.....E}.....
09:29:19.083703 IP void.ugr.es.https > daniel-GL63-8SE.home.54042: Flags [P.], seq 1:245, ack 831, win 503, options [nop,nop,TS val 3106483364 ecr 1165873072], length 244
E..(H@.6..I..d...|\.....r|.....E}.....
E..0..0.0....\...d...|\.....w..f..(p..t..*0G..g!5..w.... .y..[G..A...]or..vG^e9.q.....4.....3.$... M..v...X["...CF..6sG.=fi...a...,.D.).....*.K.X5.....Vu7..b..0..^..|\.....2..xFl..5..IU..I..(....Z.....E.....m..;x..wp.....09:29:19.083732 IP daniel-GL63-8SE.home.54042 > void.ugr.es.https: Flags [.], ack 245, win 501, options [nop,nop,TS val 1165873101 ecr 3106483364], length 0
E..4..0.0.*....\...d.....T.....E}.....
09:29:19.084530 IP daniel-GL63-8SE.home.54042 > void.ugr.es.https: Flags [P.], seq 831:895, ack 245, win 501, options [nop,nop,TS val 1165873102 ecr 3106483364], length 64
E..t..0.0....\...d.....T....[.....E}.....
E..5..C..CN.."s..[....<>{.....F..;..~Y ..W
09:29:19.084856 IP daniel-GL63-8SE.home.54042 > void.ugr.es.https: Flags [P.], seq 895:1434, ack 245, win 501, options [nop,nop,TS val 1165873102 ecr 3106483364], length 539
E..0..0.0....\...d.....T....H.....E}.....
E..)....."..M.W..?R... [./.tmE..>..6..D..z..2#.#.....+..Mn..xa^d.'.....[5.*..B..%&..l.S..@.F.C...*"...x.s..=.X..P..:..i..u.....=.8@m..~.^.....B..&.....zK.....eive]{..j..P..x.....<..05..|.<[%...+..~..D4.....Z.
2@..~..wGr..]....3G.t..Dl..A.....7H..(.C..,"9..y.....A..N.....!M.....Q..^Q..;3..!P....."N.1..a..<8z..!..r..g..U..(..CY5..t`..k.....0..I)....?j..)....(r=Fz..i..L3..1..&..+)."..y..In..~'$..nje..n..0..j..23f..6..L..U..a..D..9..bg..20..,.."/...P@.J.V$..V.....Y?..|C..U..L0.....g..g..6..p..q ..(Pph9..n..S..?
09:29:19.198387 IP void.ugr.es.https > daniel-GL63-8SE.home.54042: Flags [.], ack 1434, win 501, options [nop,nop,TS val 3106483388 ecr 1165873102], length 0
E..4HF0.6..<..d...|\.....T..=D....)f.....E}.....
09:29:19.198489 IP void.ugr.es.https > daniel-GL63-8SE.home.54042: Flags [P.], seq 245:324, ack 1434, win 501, options [nop,nop,TS val 3106483388 ecr 1165873102], length 0

```

Tras bastante rato probando, no consigo encontrar el apartado de HTML, no se si es porque sigue saliendo el cuerpo del mensaje comprimido, pero como puede apreciar en las capturas de arriba la configuración está cambiada, y he reiniciado hasta el equipo, eliminado cookies... por si acaso.

Como el comando anterior escucha tanto en el puerto 80 como en el 443, escucha tanto http como https, por lo que repetimos el procedimiento para la segunda url.



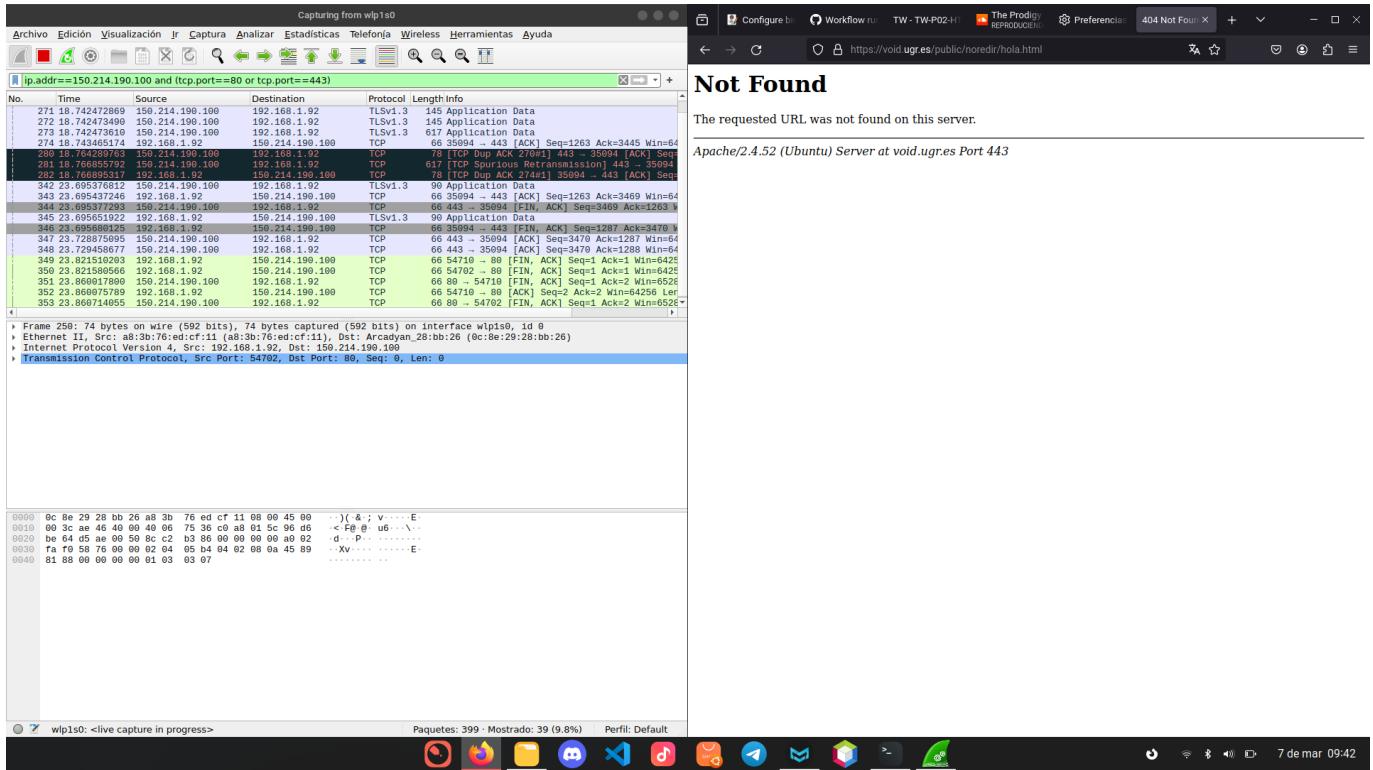
Terminal

```

→ tcpdump -r output.pcap -A
reading from file output.pcap, link-type EN10MB (Ethernet), snapshot length 10240
09:35:23.778598 IP daniel-GL63-8SE.home.50638 > void.ugr.es.https: Flags [S], seq 27914535, win 64240, options [mss 1460,sackOK,TS val 1166237796 ecr 0,nop,wscale 7], length 0
E..<Z.0.0.\.d.....'.
E. d.....
09:35:23.795873 IP daniel-GL63-8SE.home.50642 > void.ugr.es.https: Flags [S], seq 2052075451, win 64240, options [mss 1460,sackOK,TS val 1166237813 ecr 0,nop,wscale 7], length 0
E..<u6@.F.\.d....zP/.....'.
E. u.....'.
09:35:23.842400 IP void.ugr.es.https > daniel-GL63-8SE.home.50638: Flags [S.], seq 3034871645, ack 27914536, win 65160, options [mss 1460,sackOK,TS val 3106848096 ecr 1166237796,nop,wscale 7], length 0
E..<.0.6.(\.d...(\.w\....).
....'d...
09:35:23.842480 IP daniel-GL63-8SE.home.50638 > void.ugr.es.https: Flags [.], ack 1, win 502, options [nop,nop,TS val 1166237860 ecr 3106848096], length 0
E..4Z.0.0.\.d....(.w^....Z2....'.
E. .....
09:35:23.842400 IP void.ugr.es.https > daniel-GL63-8SE.home.50642: Flags [S.], seq 3332537873, ack 2052075452, win 65160, options [mss 1460,sackOK,TS val 3106848108 ecr 1166237813,nop,wscale 7], length 0
E..<.0.6.-}...d...(\.w\.....
....lE.u...
09:35:23.842518 IP daniel-GL63-8SE.home.50642 > void.ugr.es.https: Flags [.], ack 1, win 502, options [nop,nop,TS val 1166237860 ecr 3106848108], length 0
E..4u7@.0.\.d....zP/.....u....'.
E. ....l
09:35:23.843665 IP daniel-GL63-8SE.home.50638 > void.ugr.es.https: Flags [P.], seq 1:660, ack 1, win 502, options [nop,nop,TS val 1166237861 ecr 3106848096], length 659
E..Z.0.0.\.d....(\.w^.....
E.'.....[U...a.s.o.h.l.2..X. ...v$....\ei@3...&..8.0..... ...
.".....+./....,0.
. ....../.5.....void.ugr.es.....".
.....#.....h2.http/1.1.....".
.....3.k.i....$n.....J....Hx.{.^....A....$s.1.q....V.'....h.+....N.4.d....G.GD....JV....&....+.....
....@....A.B.8....9.A.b.p2.J.4*....'x.#....w.B.]....z....0....z....Bx.dZV....B.Z.Y.;.7)....[\....\v.lC.i.h.I....F.u..3.C....'....3$.c.F....p.T
....!....q.S.,|,...e.6....M=G.O.t.]".
#....v....v....v....2.{o.<....e....TP:....gC.G....nnf8....W....Z....!....W.4....G.y....Op!.
09:35:23.844615 IP daniel-GL63-8SE.home.50642 > void.ugr.es.https: Flags [P.], seq 1:660, ack 1, win 502, options [nop,nop,TS val 1166237862 ecr 3106848108], length 659
E..u8@.0.\.d....zP/.....".
E.'.....l.....kA....9lQ0.F/....!:....cl....T....V9....Y....)&:#DXB....5V....".
.".....+./....,0.
. ....../.5.....void.ugr.es.....".
.....#.....h2.http/1.1.....".
.....3.k.i....=....Y.Rd9.[....TU.m3....a....A....\7....X0.*....]....b1....q....9....T....I.....
....8/....+.....
....0....$....qvO....d....?....~....b....(....Q....R....T....6o2....4[....C';....6k....C....4q....F....Q....&M0.U....A.
[....o....HRfr?....F....b....Uq....LR....c....1....X....(....L....<....')....{....%....0....)=....zJ....v....(....)^....[....f....#.ec....m....s...."S.
09:35:23.869463 IP void.ugr.es.https > daniel-GL63-8SE.home.50642: Flags [.], ack 660, win 504, options [nop,nop,TS val 3106848157 ecr 1166237862], length 0
E..4..@.6.8....d....zP20.....
....E. .....
09:35:23.870851 IP void.ugr.es.https > daniel-GL63-8SE.home.50642: Flags [.], seq 1:1449, ack 660, win 504, options [nop,nop,TS val 3106848159 ecr 1166237862], length 1448
E..@.6.2Y....d....zP20.....
....E....z....v....c....b....%....v....#....5ZC....2....#....QU....T....V9....Y....)&:#DXB....5V....+....3....J....p....9....zg....)+....-5....y....UF's....*8R'....t....T<....D....4v36....o>....G....W....X....07....W....R....7y....e....R....0....G....n....1....KS....r....a....e....PP....0L....-....{....C....0j....r....2....!....].
....D....R....]....c....%....)....6....n....r....i....(....2....=....)....Ih....Cy....0....j....l....Y....e....Z....n....t....e....k....n....*7....a....I
....c....z....)...&....g....Z....L....QL....z....K....6....A....5W....S....[....W....L....H....e....u....W....P....4oh....$....;....2....Q....2....=....;....6....j....G....V....u....w....#....W....t....1
[....N....%....%....%....E....%....G....8....(....u....3h....I....f....n....N....A....Z.....
?....pc....j....^....%....N....1....Y....8....0....(....x....0....S....8....8l....[....dT....x....~....5....=....z....k....$....6....0....b....3....Rp....1....1M....i.....
8....+....N....u....s....a....j....(....k....7....?....m....v..../....C....W....5....g....I....w....k....T.....
\....Q....6....t....|....7....z....$....1....D....f....5....F....d....E...."....F....5....(....2.....
....B....p....<....N....,....Z....t....3C....w....Li....7....Z....?....3r....`....C....465u....^....8....Q....!....[.....
....%....8f....0....%....Z....j....d....X....&....I....P....k....-....r....0....7....e....6....JF...."....IR.....
....9....VTQ....]...."...."....Ah....4p....D....K....2....J....ks....@....s....)....ZY....]....%.....
!....w....K....e....m....<....c....d....MW....~....f....D....J....R....]....3....v....l....d....G....e....k....y....5....r....4....L....R....0....0....7....[....s....+....[....x....r....j....dB....WI....]....^....B....ux....4....D....q....9....x....L....j....]....j....c....c....6....4....j....5....g....Y....1....dj....6....)....|....3....I....F....j....3....7....Y....?....3r....G....w....7....d....a....GM.....
09:35:23.870886 IP daniel-GL63-8SE.home.50642 > void.ugr.es.https: Flags [.], ack 1449, win 501, options [nop,nop,TS val 1166237888 ecr 3106848159], length 0
E..4u90....K....\....d....zP20.....
E. .....
09:35:23.870911 IP void.ugr.es.https > daniel-GL63-8SE.home.50642: Flags [P.], seq 1449:2735, ack 660, win 504, options [nop,nop,TS val 3106848159 ecr 1166237862], length 1286
E..@.6.2....d....zP20.....
....E....G....K....*....f....p....v....E....:....9....e....Y....h....\....o....P....>....C....1....h....f....Y....v....N....c....Q....=....2....B....8....?....5....Z...."....i....5....g....K....R....t....Q....d....+....N....p.....
....v....e....r....1....E....v....C....I....G....!....!....Q....^....S....l....Z....#....y....H....P....(....q....v....+....n....)....=....1....93....q....y....z....G....x....N....+....y....S....`....K....0....88....U.....
<....WP....?....y....b....62....R....?....=....b....C.....
....&....=....g....9....D.....
....A....o....v....q....v...._v....3....0...."....u....?....G....z....m.....
....\....f....5....v....*....&....c....}....6....Q....?....c....A....0....e....Y....M....[....e....uz....[....$....#....es....1....J....4....8....o....K....Y...."....&....w....]....2....=....1....;....W\....[....$.[$....V....5.....
e....=....q.....
....Z....~....u....A....G...."...."....f....G....A....M....K....E....0....d....F....z.....
....E....s....N....]....n....c....#....%....D....z....}....D....-....2....x....u....=....i....T....V....C....g....g.....
....!....e....N....m....V....&....J....]....i....I.....
....z....g....\....kg....h....<....x....b....v....X....0....2....K....]....r....s....@....7....c....p....J....6....d....P....3....N....x....k....C....;....1....}....-....E....n....s....L....i....x....<....e....t....q....W....y....H....(....0....N....*....G....A....<....W....p....D....M....v.....
....E....D....~....V....v....G....W....I....J....B....]....3....Y....&....1....x....X....e....u....!....G....Y....N....^....S....^....l....f....0....b....a....0....0....L....I....W....a....l....W....G....E....L....5.....

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Ahora con wireshark:



Sigue saliendo los cuerpos de los mensajes así, por lo que no he conseguido encontrar el html, pero la idea sería, por ejemplo, buscar paquetes que tengan un método GET y la url de interés, usar `Follow > TCP Stream` para seguir el flujo de esa solicitud y, ahí, buscar etiquetas html tales como `<html>`, `<head>` ...

Para la otra url, exactamente igual:

