Лабораторная работа №1 Батиевский В.В.

- 1. ІР адрес веб сервера
- 2. порт к которому вы обращаетесь
- 3. истинное значение хоста ресурса
- 4. информация о необходимости кэширования
- 5. данные о формате данных которые содержатся в теле ответа
- 6. код ответа и его значение
- 7. протокол по которому осуществлялся запрос
- 8. прочая важная информация содержащаяся в заголовке (копайте глубже и найдёте гематоген золото)

Получал данные по адресу https://www.youtube.com Использовал команду:

curl -I -V https://www.youtube.com

- 1) 64.233.165.198
- 2) 443
- 3) www.youtube.com
- 4) Кеш не хранится no-cache, no-store, max-age=0, must-revalidate
- 5) Текст text/html; charset=utf-8
- 6) 200 успешный код-ответ
- 7) HTTP

Весь код:

```
Time Current
Left Speed
                      % Received % Xferd Average Speed
   % Total
                                                                                      Time
                                                                                                    Time
                                                          Dload Upload
                                                                                                    Spent
                                                                                      Total
                                                    0
                                                                             0 --:--:--
                                         Λ
Trying 64.233.165.198:443...
  Connected to www.youtube.com (64.233.165.198) port 443 (#0)
  ALPN: offers h2
ALPN: offers http/1.1
  CAfile: C:/
CApath: none
[5 bytes data]
                                      M/Git/mingw64/ssl/certs/ca-bundle.crt
* TLSv1.3 (OUT), TLS handshake, Client hello (1):
} [512 bytes data]

* TLSv1.3 (IN), TLS handshake, Server hello (2):
{ [122 bytes data]

* TLSv1.3 (IN), TLS handshake, Encrypted Extensions (8):
{ [15 bytes data]
* TLSv1.3 (IN), TLS handshake, Certificate (11): { [6410 bytes data] * TLSv1.3 (IN), TLS handshake, CERT verify (15): { [80 bytes data] * TLSv1.3 (IN), TLS handshake, Finished (20): { [52 bytes data] * [53 bytes data] * [54 bytes data] * [55 bytes data]
   [52 bytes data]
                             TLS change cipher, Change cipher spec (1):
} [1 bytes data]
* TLSv1.3 (OUT), TLS handshake, Finished (20):
} [52 bytes data]
   TLSv1.3 (OUT),
   SSL connection using TLSv1.3 / TLS_AES_256_GCM_SHA384
* ALPN: server accepted h2
* Server certificate:
   subject: CN=*.google.com
start date: Aug 22 08:22:36 2022 GMT
```

```
expire date: Nov 14 08:22:35 2022 GMT
subjectAltName: host_"www.youtube.com" matched cert's "*.youtube.com"
    issuer: C=US; O=Google Trust Services LLC; CN=GTS CA 1C3 SSL certificate verify ok.
* Using HTTP2, server supports multiplexing

* Copying HTTP/2 data in stream buffer to connection buffer after upgrade: len=0
   [5 bytes data]
  h2h3 [:method: HEAD]
h2h3 [:path: /]
h2h3 [:scheme: https]
h2h3 [:authority: www.youtube.com]
h2h3 [user-agent: curl/7.84.0]
* h2h3
  h2h3
* h2h3
  h2h3 [accept: */*]
Using Stream ID: 1 (easy handle 0x1eec8a40d60)
  [5 bytes data]
> HEAD / HTTP/2
> Host: www.youtube.com
> user-agent: curl/7.84.0
> accept: */*
   [5 bytes data] TLSv1.3 (IN), TLS handshake, Newsession Ticket (4):
  [282 bytes data]
TLSv1.3 (IN), TLS handshake, Newsession Ticket (4):
  [282 bytes data]
   old SSL session ID is stale, removing
{ [5 bytes data]
< HTTP/2 200
< content-type: text/html; charset=utf-8</pre>
< x-content-type-options: nosniff
< cache-control: no-cache, no-store, max-age=0, must-revalidate</pre>
< pragma: no-cache
< pragma: no-cache
< expires: Mon, 01 Jan 1990 00:00:00 GMT
< date: Fri, 09 Sep 2022 08:11:43 GMT</pre>
< content-length: 664325
< strict-transport-security: max-age=31536000</pre>
< x-frame-options: SAMEORIGIN
< cross-origin-opener-policy-report-only: same-origin-allow-popups; report-</pre>
to='
     'youtube_main'
< permissions-policy: ch-ua-arch=*, ch-ua-bitness=*, ch-ua-full-version=*, ch-ua-full-</pre>
version-list=*, ch-úa-model=*, ch-úa-wow64=*, ch-ua-platform=*, ch-ua-platform-
version=*
report-to:
{"group":"youtube_main","max_age":2592000,"endpoints":[{"url":"https://csp.withgoogle.com/csp/report-to/youtube_main"}]}
< p3p: CP="This is not a P3P policy! See
http://support.google.com/accounts/answer/151657?hl=ru for more info."</pre>
< x-xss-protection: 0
< set-cookie: GPS=1; Domain=.youtube.com; Expires=Fri, 09-Sep-2022 08:41:44 GMT;</pre>
Path=/; Secure; HttpOnly
< set-cookie: YSC=-P2nZhcOIiE; Domain=.youtube.com; Path=/; Secure; HttpOnly;</pre>
SameSite=none
< set-cookie: VISITOR_INFO1_LIVE=H-Oo8BgDHfc; Domain=.youtube.com; Expires=Wed, 08-</p>
Mar-2023 08:11:44 GMT; Path=/; Secure; HttpOnly; SameSite=none < alt-svc: h3=":443"; ma=2592000,h3-29=":443"; ma=2592000,h3-Q050=":443"; ma=2592000,h3-Q046=":443"; ma=2592000,h3-Q043=":443"; ma=2592000,quic=":443"; ma=2592000; v="46,43"
<
      648k
                         0
                                         0
                                                            0 --:--:--
                                                                                                         0HTTP/2
200
content-type: text/html; charset=utf-8
x-content-type-options: nosniff
cache-control: no-cache, no-store, max-age=0, must-revalidate
pragma: no-cache
expires: Mon, 01 Jan 1990 00:00:00 GMT date: Fri, 09 Sep 2022 08:11:43 GMT content-length: 664325
strict-transport-security: max-age=31536000
x-frame-options: SAMEORIGIN
cross-origin-opener-policy-report-only: same-origin-allow-popups; report-
to="youtube_main"
permissions-policy: ch-ua-arch=*, ch-ua-bitness=*, ch-ua-full-version=*,
                                                                                                   ch-ua-full-
version-list=*, ch-ua-model=*, ch-ua-wow64=*, ch-ua-platform=*, ch-ua-platform-
version=*
report-to: {"group":"youtube_main","max_age":2592000,"endpoints":[{"url":"https://csp.withgoogle.
com/csp/report-to/youtube_main"}]}
p3p: CP="This is not a P3P policy! See
http://support.google.com/accounts/answer/151657?hl=ru for more info."
```

server: ESF
x-xss-protection: 0
set-cookie: GPS=1; Domain=.youtube.com; Expires=Fri, 09-Sep-2022 08:41:44 GMT; Path=/;
Secure; HttpOnly
set-cookie: YSC=-P2nZhcOIiE; Domain=.youtube.com; Path=/; Secure; HttpOnly;
SameSite=none
set-cookie: VISITOR_INFO1_LIVE=H-Oo8BgDHfc; Domain=.youtube.com; Expires=Wed, 08-Mar-2023 08:11:44 GMT; Path=/; Secure; HttpOnly; SameSite=none
alt-svc: h3=":443"; ma=2592000,h3-29=":443"; ma=2592000,h3-Q050=":443"; ma=2592000; v="46,43"

^{*} Connection #0 to host www.youtube.com left intact