## UNIVERSIDADE FEDERAL DE ALAGOAS CIÊNCIA DA COMPUTAÇÃO REDES DE COMPUTADORES - 2022.2 NAYSE DA SILVA FAGUNDES

## Trabalho 1 - Análise de Requisições HTTP

Download da aplicação Wireshark: Wireshark · Go Deep

Site utilizado para as requisições: chinadaily.com.cn

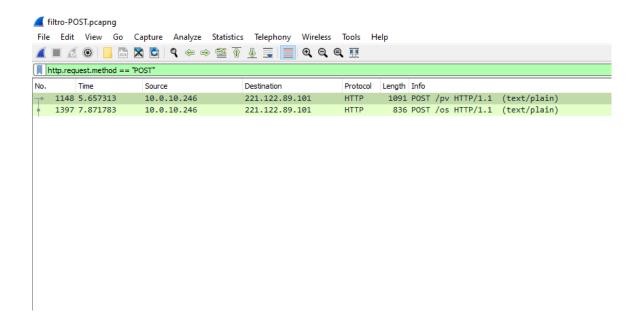
- 1. Ativar o Wireshark para monitorar a placa de rede em questão; OK.
- 2. Realizar uma requisição HTTP GET utilizando um cliente que desejar (ex.: browser Web, curl etc.) para alguma URL (na aula ao vivo, mostro como fazer isso pelo browser).

Para visualizar as requisições HTTP, é necessário abrir o Wireshark e depois iniciar a captura. Em seguida, utilizar os seguintes filtros:

http.request.method == "GET" - filtro para obter as solicitações HTTP que possuam o método GET

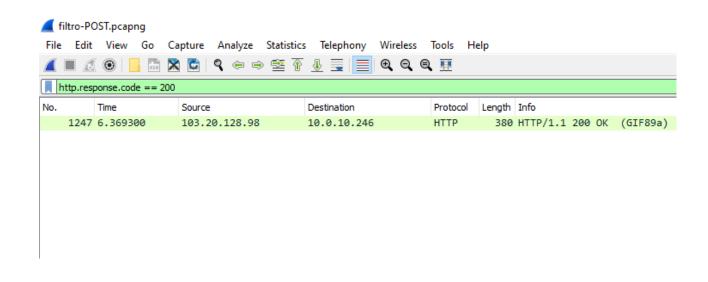
1		X 🚨 🥄 👄 ⇒ 🛢	· · · · · · · · · · · · · · · · · · ·	4 #	
h	nttp.request.method ==	: "GET"			
١.	Time	Source	Destination	Protocol	ol Length Info
	970 4.936392	10.0.10.246	163.181.64.231	HTTP	944 GET / HTTP/1.1
	983 5.023243	10.0.10.246	163.181.64.231	HTTP	861 GET /h5hack/respond.proxy.js HTTP/1.1
	986 5.040838	10.0.10.246	163.181.64.231	HTTP	910 GET /image_e/2017/logo.png HTTP/1.1
	999 5.158008	10.0.10.246	163.181.64.231	HTTP	910 GET /image_e/2017/cnbut.png HTTP/1.1
	1003 5.177671	10.0.10.246	163.181.64.231	HTTP	908 GET /image_e/2017/fdj.png HTTP/1.1
	1004 5.178228	10.0.10.246	163.181.64.231	HTTP	910 GET /image_e/2017/cd02.png HTTP/1.1
	1005 5.179013	10.0.10.246	163.181.64.231	HTTP	913 GET /image_e/2017/0724-01.jpg HTTP/1.1
	1006 5.180512	10.0.10.246	163.181.64.231	HTTP	913 GET /image_e/2017/0724-02.jpg HTTP/1.1
	1008 5.181731	10.0.10.246	163.181.64.231	HTTP	668 GET /images/202301/05/63b69ac1a31057c4b4b2c647.jpeg HTTP/1.1
	1009 5.181917	10.0.10.246	163.181.64.231	HTTP	668 GET /images/202212/29/63acfd66a31057c4b4b25fb2.jpeg HTTP/1.1
	1010 5.182929	10.0.10.246	163.181.64.231	HTTP	668 GET /images/202303/03/640125c0a31057c4b4b623fd.jpeg HTTP/1.1
	1011 5.183153	10.0.10.246	163.181.64.231	HTTP	667 GET /images/202303/02/63fff35aa31057c4b4b611f8.png HTTP/1.1
	1012 5.183279	10.0.10.246	163.181.64.231	HTTP	667 GET /images/202303/01/63fefe8ca31057c4b4b6075b.png HTTP/1.1
	1014 5.195075	10.0.10.246	163.181.64.231	HTTP	912 GET /image_e/2013/arr_bot.gif HTTP/1.1
	1020 5.213034	10.0.10.246	163.181.64.231	HTTP	668 GET /images/202302/28/63fd3145a31057c4b4b5dd2a.jpeg HTTP/1.1
	1028 5.248487	10.0.10.246	163.181.64.231	HTTP	915 GET /image_e/2016/focus_btn.png HTTP/1.1
	1040 5.262427	10.0.10.246	163.181.64.231	HTTP	910 GET /image_e/2016/btBg.png HTTP/1.1
	1042 5.275989	10.0.10.246	163.181.64.231	HTTP	667 GET /images/201909/11/5d78a383a310cf3e979bce62.png HTTP/1.1
	1043 5.276839	10.0.10.246	163.181.64.231	HTTP	911 GET /image_e/2016/arr_03.jpg HTTP/1.1
	1044 5.277228	10.0.10.246	163.181.64.231	HTTP	911 GET /image_e/2016/arr_05.jpg HTTP/1.1
	1045 5.277993	10.0.10.246	163.181.64.231	HTTP	668 GET /images/202207/04/62c2c8e1a310fd2bec940cfd.jpeg HTTP/1.1
	1046 5.278334	10.0.10.246	163.181.64.231	HTTP	908 GET /image_e/2016/v-1.jpg HTTP/1.1
	1047 5.278476	10.0.10.246	163.181.64.231	HTTP	668 GET /images/202212/27/63aa41e2a31057c4b4b23cce.jpeg HTTP/1.1
	1048 5.278572	10.0.10.246	163.181.64.231	HTTP	668 GET /images/202302/21/63f4283ca31057c4b4b57bbb.jpeg HTTP/1.1
	1049 5.279117	10.0.10.246	163.181.64.231	HTTP	705 GET /images/202303/01/63fefe8ca31057c4b4b6075b w336.png HTTP/1

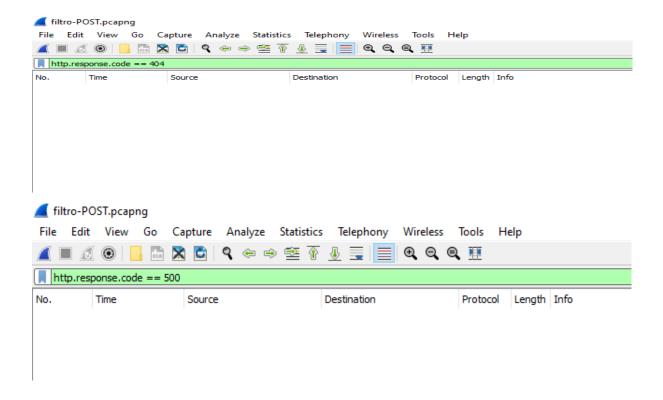
http.request.method == "POST" filtro para obter as solicitações HTTP que possuam o método POST



3. Utilizando o Wireshark, filtrar os principais parâmetros da requisição e de resposta HTTP GET. Ex.: Status, código de resposta, se usa ou não cookie, se usa HTTP GET CONDICIONAL etc.

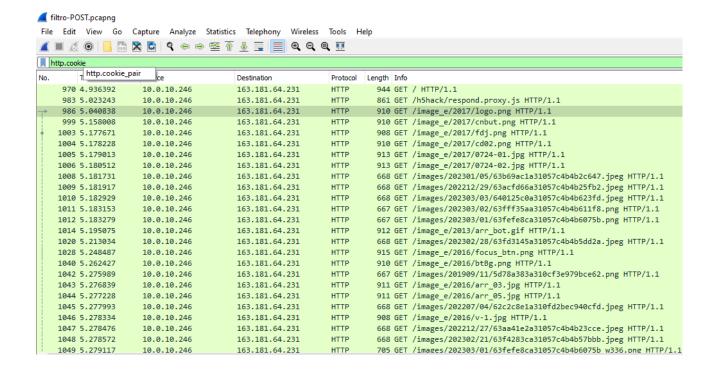
Status e Código de resposta: Utilizando o filtro de código de resposta: http.respose.code == 200, para verificar se a solicitação foi bem sucedida:





Utiliza cookies: SIM, é possível verificar utilizando o filtro http.cookie:

Em seguida é possível visualizar que em algumas das solicitações HTTP que existe os termos cookies e set-cookie no cabeçalho da solicitação:



## HTTP GET CONDICIONAL: SIM, existe no cabeçalho de alguns GET o termo If-Modified-Since:

```
Frame 1049: 705 bytes on wire (5640 bits), 705 bytes captured (5640 bits) on interface \Device\NPF_{2E90862B-2F71-4A5E-AEFB-C95237D161A2}, id 0
 Ethernet II, Src: 9a:83:f6:db:48:3b (9a:83:f6:db:48:3b), Dst: TP-Link_bb:b4:bc (00:5f:67:bb:b4:bc)
Internet Protocol Version 4, Src: 10.0.10.246, Dst: 163.181.64.231
  Transmission Control Protocol, Src Port: 49838, Dst Port: 80, Seq: 615, Ack: 518, Len: 651
 Hypertext Transfer Protocol
    GET /images/202303/01/63fefe8ca31057c4b4b6075b_w336.png HTTP/1.1\r\n
     Host: img2.chinadaily.com.cn\r\n
     Connection: keep-alive\r\n
    If-Modified-Since: Wed, 01 Mar 2023 07:28:12 GMT\r\n User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/111.0.0.0 Safari/537.36 Edg/111.0.1661.44\r\n
     If-None-Match: "63fefe8c-2182d"\r\n
     Accept: image/webp,image/apng,image/svg+xml,image/*,*/*;q=0.8\r\n Referer: http://www.chinadaily.com.cn/\r\n
     Accept-Encoding: gzip, deflate\r\n
     Accept-Language: pt-BR,pt;q=0.9,en;q=0.8,en-GB;q=0.7,en-US;q=0.6\r\n
    Cookie: __asc=52b471241870c0fec74673f0f72; __auc=52b471241870c0fec74673f0f72; wdcid=77b9118484be3d00\r\n
     [Full request URI: http://img2.chinadaily.com.cn/images/202303/01/63fefe8ca31057c4b4b6075b_w336.png]
     [HTTP request 2/4]
     [Prev request in frame: 1020]
     [Response in frame: 1068]
     [Next request in frame: 1092]
Request line (http://equest line) 50 hyte(s)
```

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Frame 970: 944 bytes on wire (7552 bits), 944 bytes captured (7552 bits) on interface \Device\NPF_{2E90862B-2F71-4A5E-AEFB-C95237D161A2}, id 0
```

Ethernet II, Src: 9a:83:f6:db:48:3b (9a:83:f6:db:48:3b), Dst: TP-Link\_bb:b4:bc (00:5f:67:bb:b4:bc)

Internet Protocol Version 4, Src: 10.0.10.246, Dst: 163.181.64.231

Transmission Control Protocol, Src Port: 49833, Dst Port: 80, Seq: 1, Ack: 1, Len: 890 Hypertext Transfer Protocol

GET / HTTP/1.1\r\n

Host: www.chinadaily.com.cn\r\n Connection: keep-alive\r\n

Cache-Control: max-age=0\r\n
Upgrade-Insecure-Requests: 1\r\n

User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML,

like Gecko) Chrome/111.0.0.0 Safari/537.36 Edg/111.0.1661.44\r\n

Accept:

 $text/html, application/xhtml+xml, application/xml; q=0.9, image/webp, image/apng, */*; q=0.8, application/signed-exchange; v=b3; q=0.7 \ r\ n$ 

Accept-Encoding: gzip, deflate\r\n

Accept-Language: pt-BR,pt;q=0.9,en;q=0.8,en-GB;q=0.7,en-US;q=0.6\r\n

[truncated]Cookie: \_\_asc=52b471241870c0fec74673f0f72;

auc=52b471241870c0fec74673f0f72; wdcid=77b9118484be3d00;

wdses=206f59211b50533f; wdlast=1679535891; pt\_s\_3bfec6ad=vt=1679535893036&cad=; pt 3bfec6ad=uid=iNDlgpzvZLNFspnbM-S-QQ&nid=0

If-Modified-Since: Thu, 23 Mar 2023 01:40:24 GMT\r\n

 $r\n$ 

[Full request URI: http://www.chinadaily.com.cn/]

[HTTP request 1/6] [Response in frame: 981] [Next request in frame: 983]