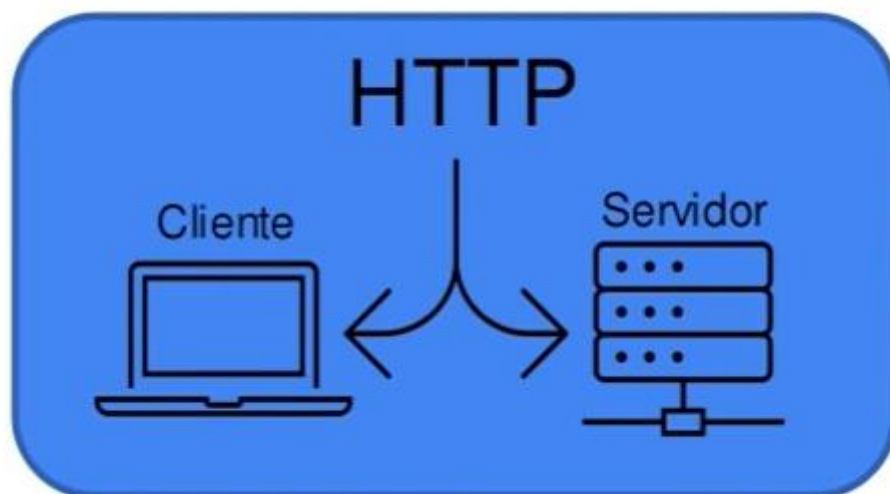


Como funciona o protocolo HTTP?

Protocolo HTTP

HyperText Transfer Protocol (HTTP)

- Definido pelos RFCs 1945 e 2116
- Protocolo de comunicação
- Browser -> implementa o cliente HTTP
- Servidor -> host objetos web



HyperText Transfer Protocol (HTTP)

Protocolo HTTP

Mensagens HTTP

..

- Cliente
Mensagens - Request HTTP
- Servidor
Mensagens – Response HTTP

Objetos web

Protocolo TCP

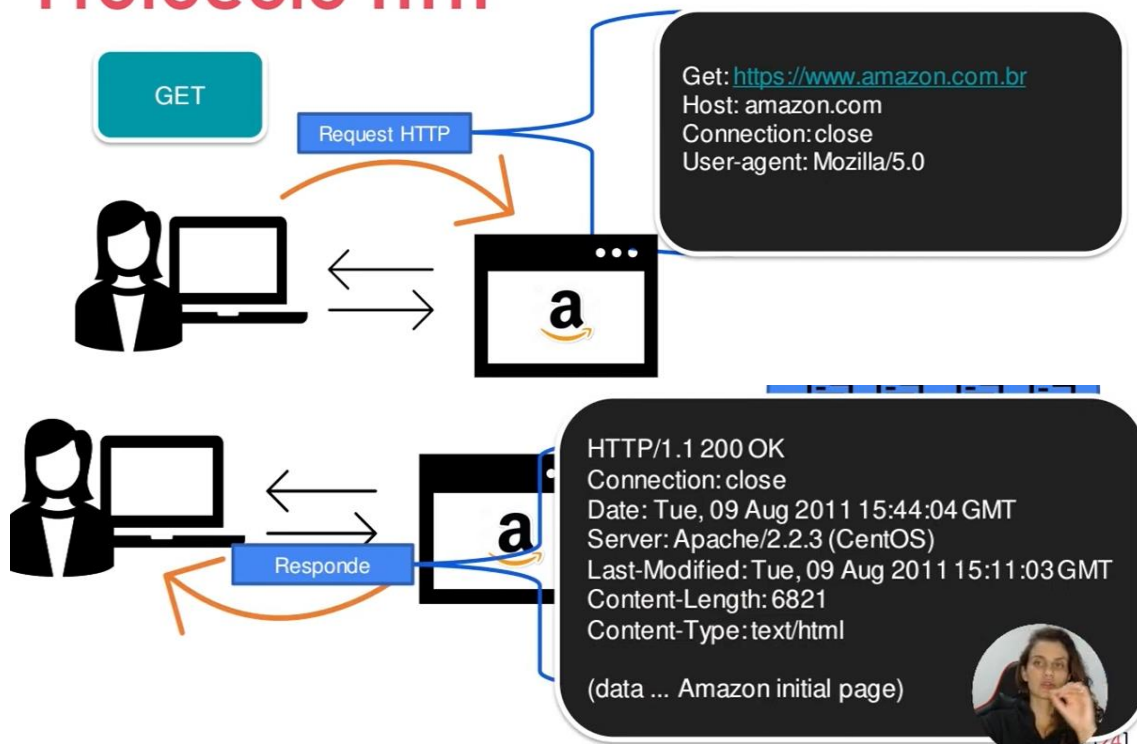
- Tipos: request & response

```
Get: /somedir/page.html HTTP/1.1
Host: www.someschool.edu
Connection: close
User-agent: Mozilla/5.0
Accept-language: fr
```

```
HTTP/1.1 200 OK
Connection: close
Date: Tue, 09 Aug 2011 15:44:04 GMT
Server: Apache/2.2.3 (CentOS)
Last-Modified: Tue, 09 Aug 2011 15:11:03 GMT
Content-Length: 6821
Content-Type: text/html

(data , data, ....)
```

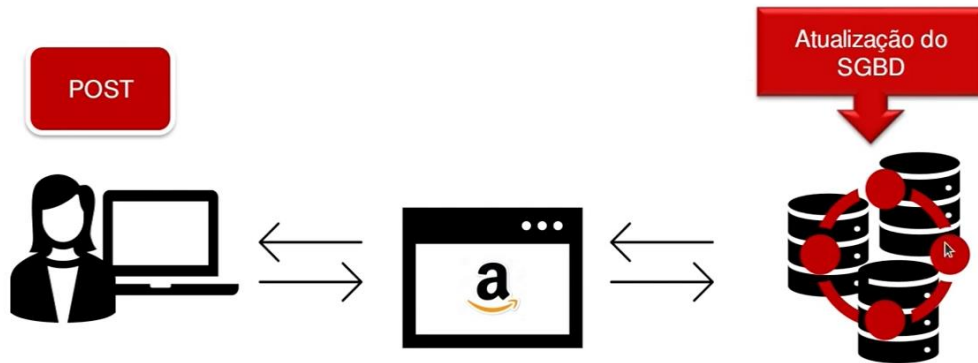
Protocolo HTTP



Protocolo HTTP



Protocolo HTTP



Protocolo HTTP

Body?

HTTP Entity Body

XML

```
1 <?xml version="1.0" encoding="UTF-8"?>
2 <authentication-context>
3   <username>my_username</username>
4   <password>my_password</password>
5   <validation-factors>
6     <validation-factor>
7       <name>remote_address</name>
```

JSON

```
1 {
2   "username" : "my_username",
3   "password" : "my_password",
4   "validation-factors" : [
5     "validationFactors" : [
6       {
7         "name" : "remote_address",
8         "value" : "127.0.0.1"
```

Serialization

Comunicação

Metadados



Extensible Markup Language

Objetivo?

Serialization

Comunicação

Metadados

XML

```
1 <?xml version="1.0" encoding="UTF-8"?>
2 <authentication-context>
3   <username>my_username</username>
4   <password>my_password</password>
5   <validation-factors>
6     <validation-factor>
7       <name>remote_address</name>
8       <value>127.0.0.1</value>
9     </validation-factor>
10  </validation-factors>
11 </authentication-context>
```

Outro formato?

Características

- Lightweight
- Independete de ling.
- simples

JSON

```
1 {  
2   "username" : "my_username",  
3   "password" : "my_password",  
4   "validation-factors" : {  
5     "validationFactors" : [  
6       {  
7         "name" : "remote_address",  
8         "value" : "127.0.0.1"  
9       }  
10    ]  
11  }  
12 }
```



[33]

XML e JSON

Comum

- Auto-descritivos
- Hierárquicos
- Independentes de linguagem de prog.
- Vasta utilização

Diferenças

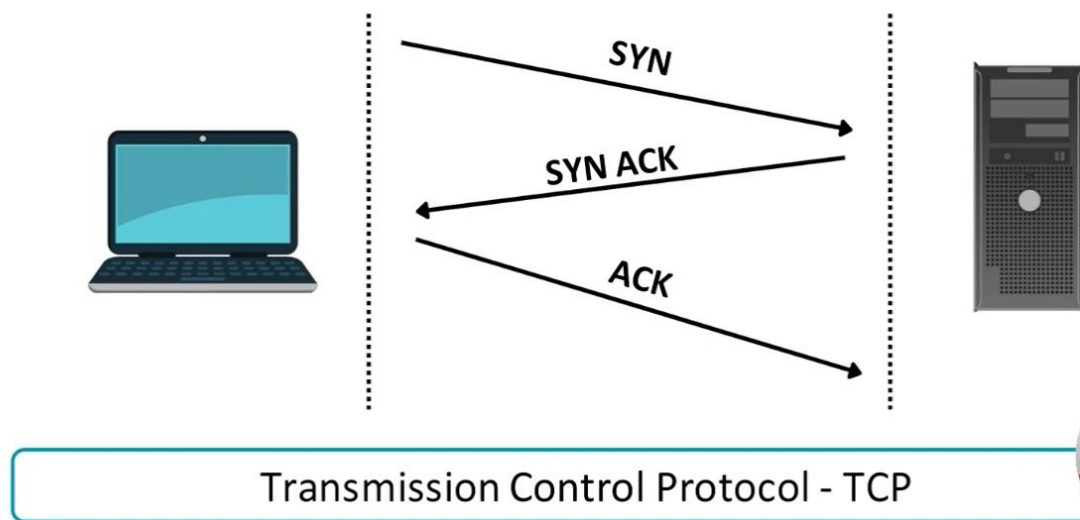


Por qual optar?



Particularidades do HTTP versão 1.1

Protocolo HTTP



HTTP 1.1

