HTTP/2 101

小彬 2016-08-19 •HTTP的发展历程

•HTTP/2的亮点

●HTTP/2的使用

HTTP/0.9

1991 协议简单 基于TCP/IP的应用层协议

终端年代 只支持文本

\$> telnet baidu.com 80

Connected to xx.xx.xxx.xxx

GET /index.html

(hypertext response) (connection closed)

HTTP/1.0

1996 浏览器年代 GET POST HEAD 请求和返回信息丰富

GET / HTTP/1.0

User-Agent: Mozilla/5.0 (Macintosh; Intel Mac OS X 10_10_5)

Accept: */*

HTTP/1.0 200 OK

Content-Type: text/plain

Content-Length: 137582

Expires: Thu, 05 Dec 1997 16:00:00 GMT

Last-Modified: Wed, 5 August 1996 15:55:28 GMT

Server: Apache 0.84

<html>
<body>Hello World</body>
</html>

HTTP/1.1

1997

持久连接 Connection: keep-alive

分块传输 Transfer-Encoding: chuncked

PUT PATCH HEAD DELETE ...

一用就是20年

SPDY

2009 Chrome

解决HTTP/1.1的效率问题

HTTP/2

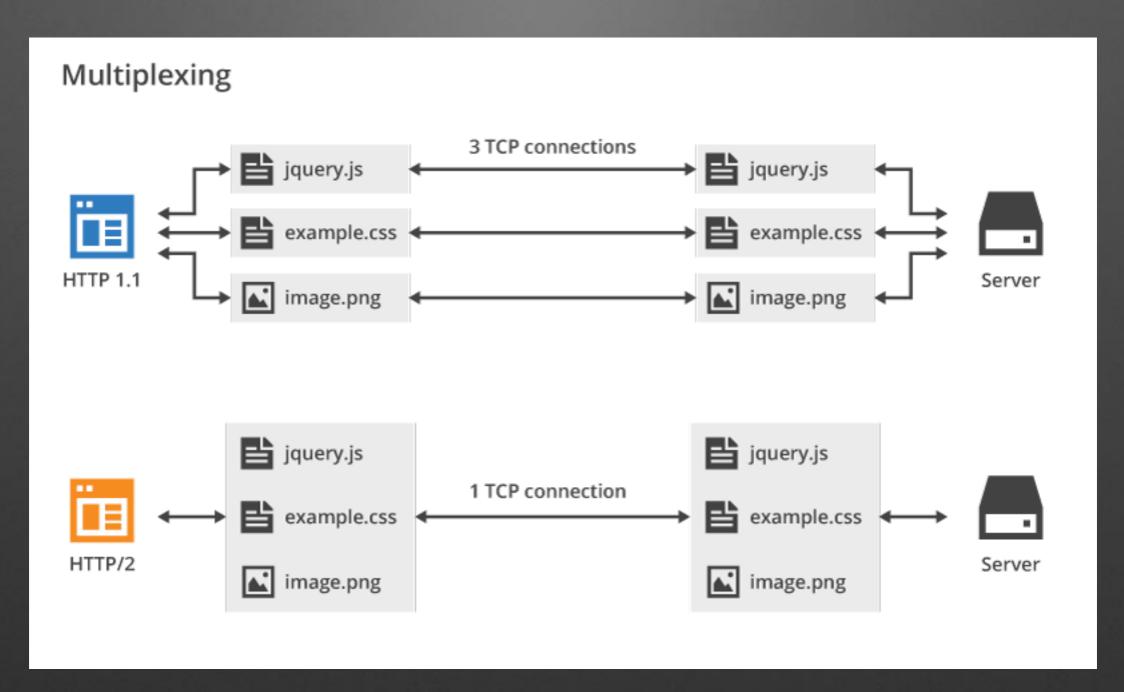
2015 基于SPDY

HTTP/2的亮点

- •采用二进制协议,定义帧:头信息帧、数据帧等
- •头信息压缩
- ●服务器推送
- •加载优先级: html style javascript image

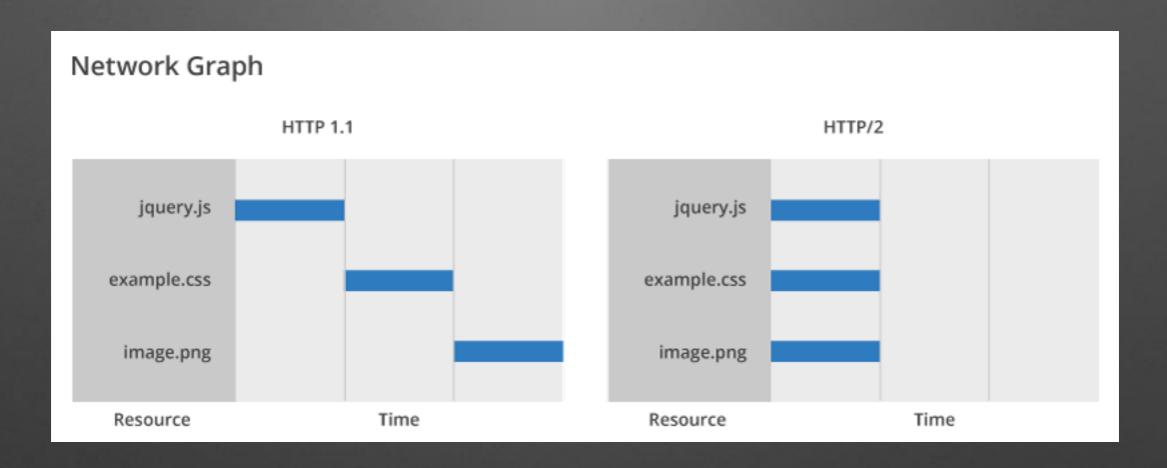
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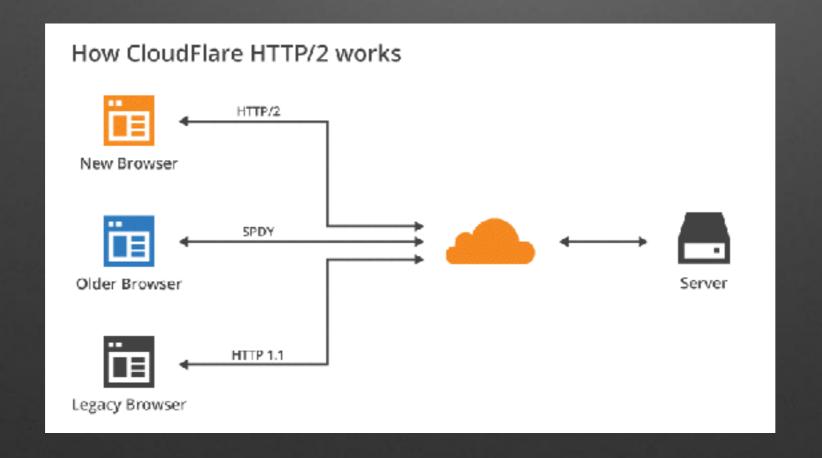


HTTP/2的使用

Server端支持: nginx

浏览器支持

浏览器与服务器协商,选择协议



参考资料

- http://www.ruanyifeng.com/blog/2016/08/http.html
- https://hpbn.co/brief-history-of-http/
- https://www.cloudflare.com/http2/what-is-http2/