

BASIC OF LONG POLLING SERVER

Cookie Tsai @ 2016.08.23

ABOUT ME

- ♦ Expertise
 - Java NIO
- ♦ Experience
 - Mitake
 - JC Software Services
- ♦ Honors & Awards
 - The Winner of Etu Hadoop Competition 2015
 - 2011 電信創新應用大賽 智慧家庭組 優選
 - 2010 電信奧斯卡 MOD應用組 佳作



WHAT IS HTTP

- HTTP is HyperText Transfer Protocol
- HTTP is an application protocol
- HTTP is the foundation of data communication for the World Wide Web

```
POST /2016/06/extract-transform-load.html HTTP/1.1
Host: tsai-cookie.blogspot.tw
User-Agent: User Defient/1.0
Content-Type: text/plain; charset=utf-8
```

<.... Your Data>

紅: Method

綠:Path

藍: HTTP Version

橘: Head

紫:Body(許多地方文章稱為 Entity)

CLIENT AND SERVER

(DEMO 1)

♦ Linux Command

- cat -- concatenate and print files
- nc -- arbitrary TCP and UDP connections and listens
- curl transfer a URL

♦ What will we do

- 1. Using nc make a fake HTTP Server
- 2. Using curl connect fake server and send request
- 3. Using any type of browser connect fake server

LET'S TALKING ABOUT PUSH

- ♦ What you should know?
 - Understanding what are Comet, Polling, Long Polling and WebSocket... etc
- ♦ Why we need using Long Polling?
 - You can use anything you think is the best solution in your project
- ♦ Long Polling is the best solution?
 - Really not always

LONG POLLING SERVER

(DEMO 2)

- ♦ Linux Command
 - npm npm is the package manager for JavaScript
 - node Server-side JavaScript
- ♦ Dependency Package
 - random-js
- ♦ What will we do
 - Using nodejs to run a Long Polling Server
 - Using client to connect the Long Polling Server

https://github.com/CookieTsai/LongPolling

BASIC OF FILE DESCRIPTOR

- ♦ What is File Descriptor?
 - In Unix and related computer operating systems, a file descriptor is an abstract indicator (handle) used to access a file or other input/output resource, such as a pipe or network socket.
- What's the relationship between File Descriptor and Standard streams (stdin, stdout, stderr)?
 - Each Unix process should expect to have three standard POSIX file descriptors. The File Descriptor number 0 is stdin, 1 is stdout and 2 is stderr.

LIST OPEN FILES

(DEMO 3)

- ♦ Linux Command
 - ab Apache HTTP server benchmarking tool
 - Isof list open files
- ♦ What will we do
 - 1. Using ab to connect Long Polling Server
 - 2. Using Isof to watch socket connections



Thanks for your listening