Project 3: Remote Batch System

NP TA 誌佑

12/01 18:20

Project 3 Deadline

Demo: 12/03 Thu.

Remote Batch System

- Requirements
 - A simple HTTP server
 - A CGI program
- Part 1: Run in NP Linux Workstation
- Part 2: Run in Windows 10

Project 3: Demo

- 12/01 Thu. 10:00 ~ 18:30
- We will announce demo slots 2 ~ 3 days before
- Tasks:
 - Pass test cases
 - Answer questions
 - Implement 1 extra function within a limited time

Execution Flow

Run HTTP Server

client



http_server

nplinux1 port: 8080

Request 1 - Send



send request

http_server

http://nplinux1.cs.nctu.edu.tw:8080/panel.cgi

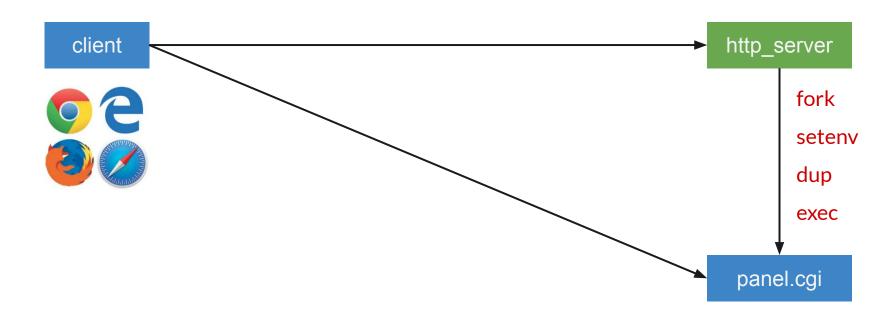


Request 1 - Receive

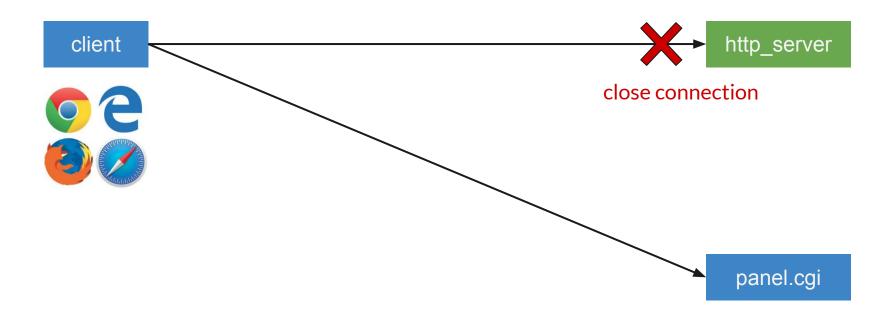
client receive, parse request http_server



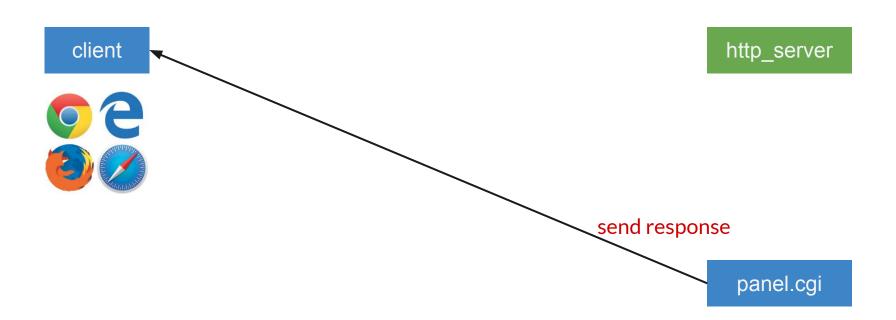
Request 1 - Execute CGI Program



Request 1 - Close Connection



Request 1 - Response



Request 1 - Terminate

client

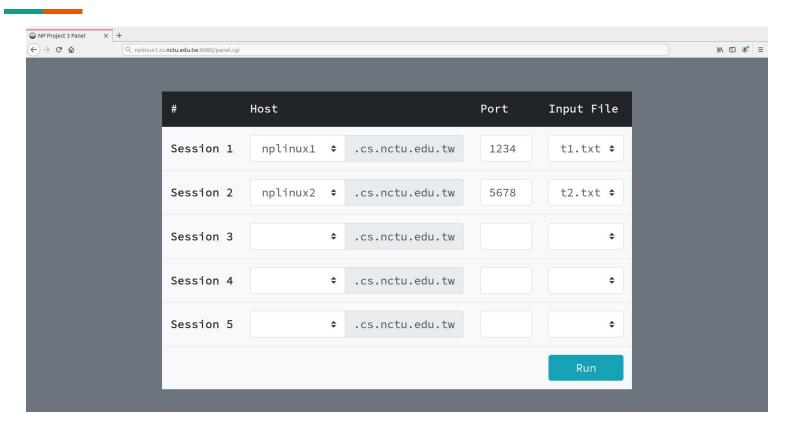


http_server

child exit

panel.cg

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Request 2 - Send



send request

http_server

http://nplinux1.cs.nctu.edu.tw:8080/console.cgi?h0=...

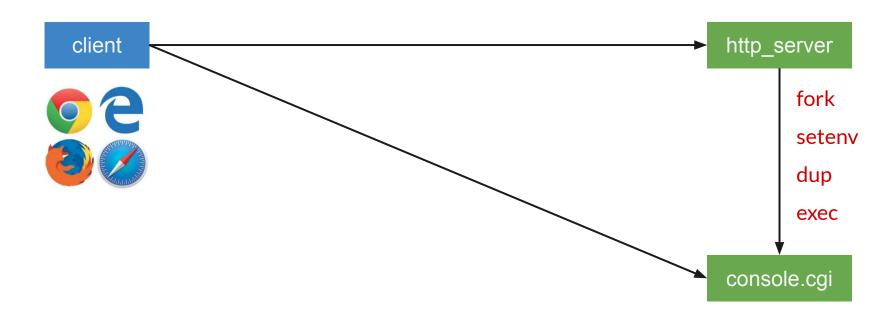


Request 2 - Receive

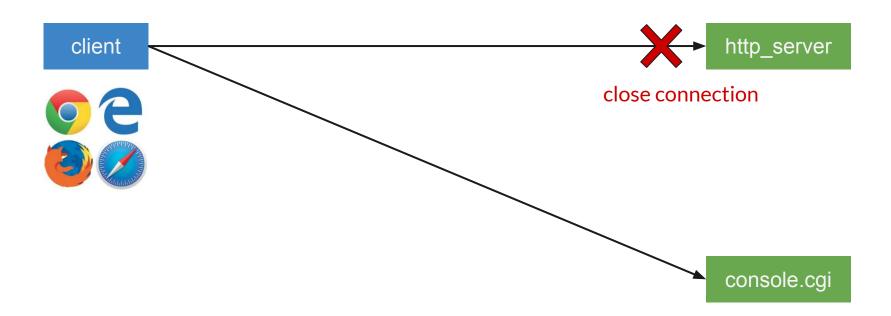
client receive, parse request http_server



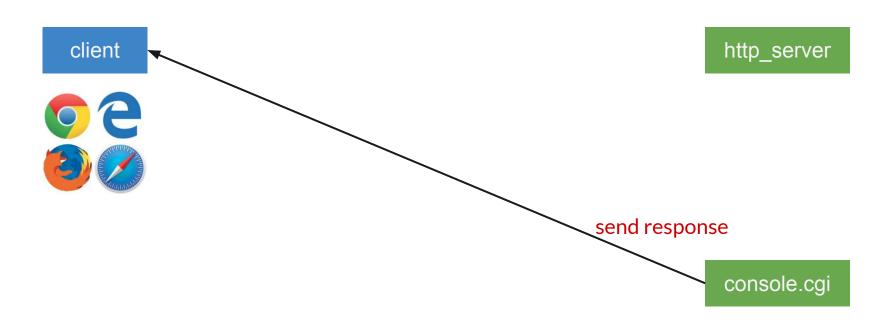
Request 2 - Execute CGI Program



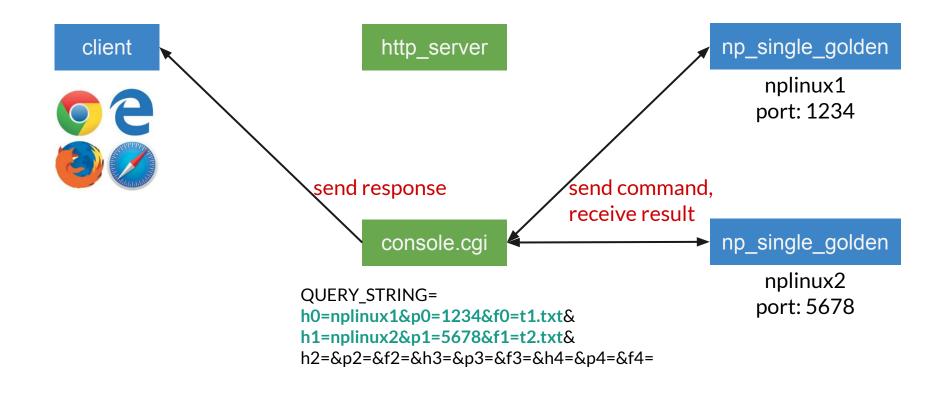
Request 2 - Close Connection



Request 2 - Response



Request 2 - Connect Servers



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- Display hostname and port of the remote server in each session
- Make sure the commands are displayed in the right order, at the right time, and can be easily distinguished from the outputs

