# Project 3: Remote Batch System

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# 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

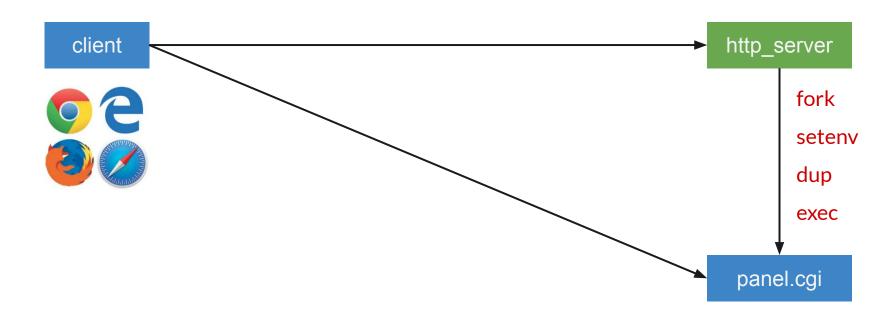


# Request 1 - Receive

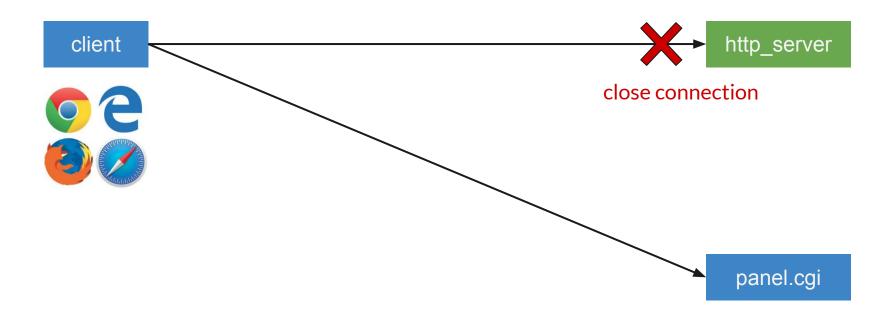
client receive, parse request http\_server



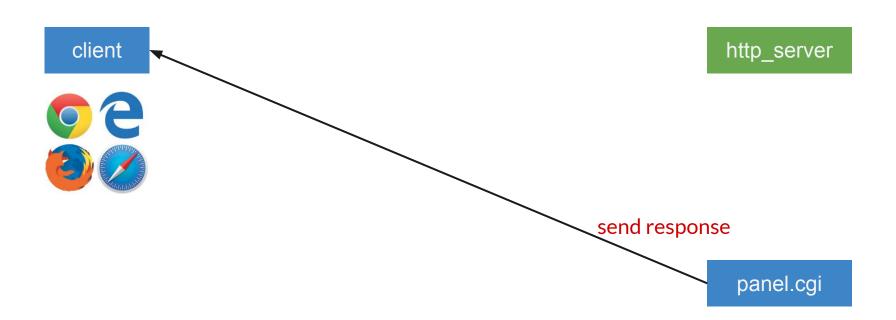
#### Request 1 - Execute CGI Program



## **Request 1 - Close Connection**



# Request 1 - Response



# **Request 1 - Terminate**

client

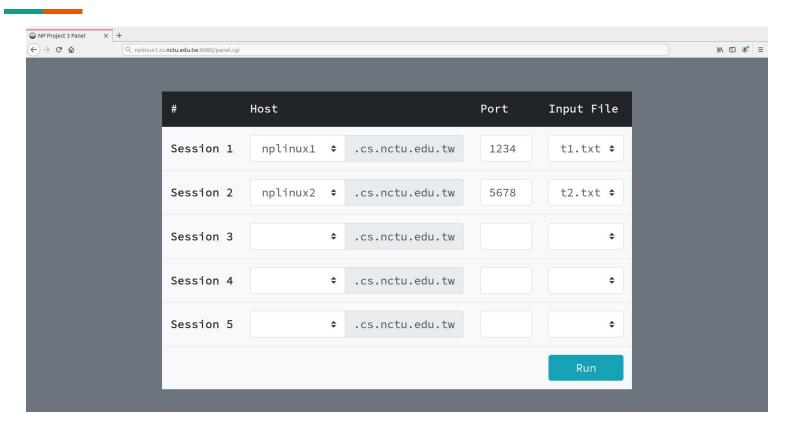


http\_server

child exit

panel.cg

#### Page Generated by panel.cgi



# Request 2 - Send



#### send request

http\_server

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

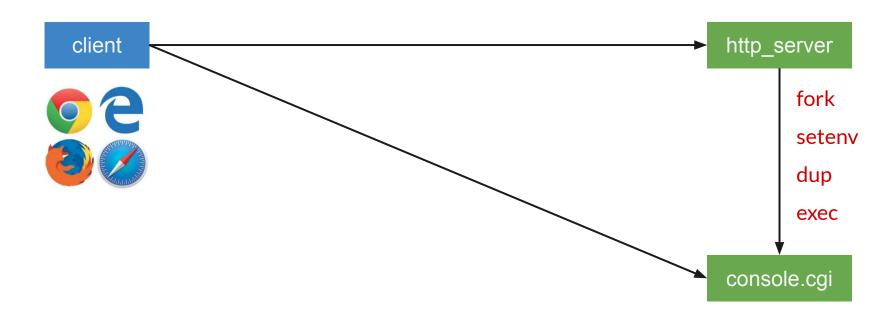


# Request 2 - Receive

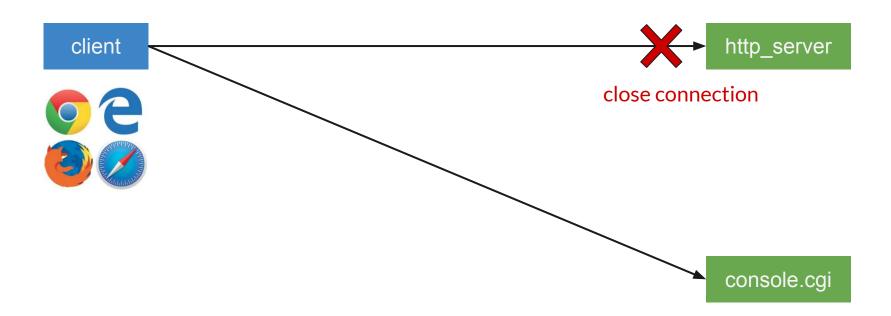
client receive, parse request http\_server



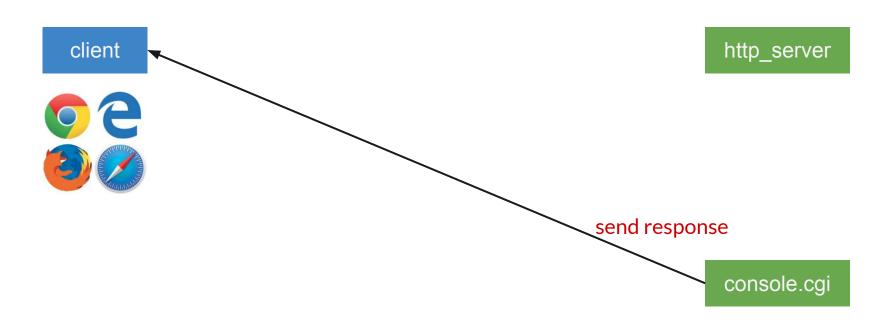
#### Request 2 - Execute CGI Program



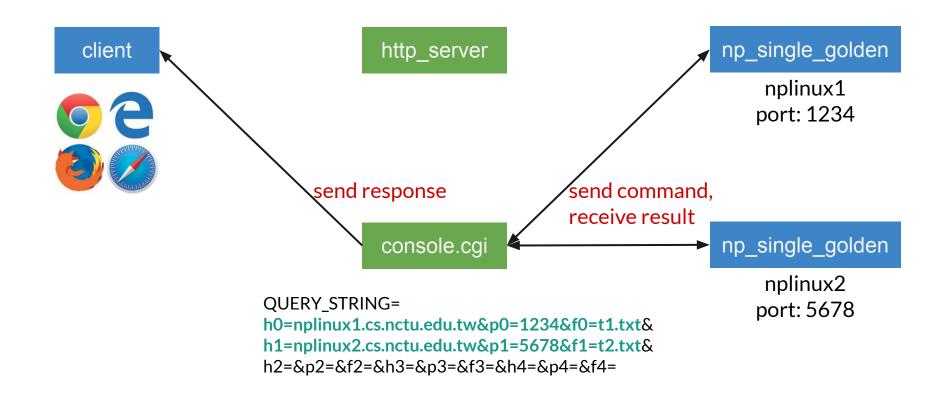
## **Request 2 - Close Connection**



## Request 2 - Response



#### **Request 2 - Connect Servers**



#### Page Generated by console.cgi

- 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

