Lab assignment: socket programming

提交作业

截止时间 无截止时间   **得分** 20   **提交** 一份上传文件   **可用** 直到 10月 12 23:59

You will implement a simple file share application using TCP Socket APIs.

You can use any programming language. You need to submit your code together with a report. The report should contain how to run your program and some evaluation results.

1. Implement C/S model: 1)Server listens to a given port (>1024, e.g. 2680) 2) Multiple clients request the same file from the server 3) Each client save the file to its local directory.
2. Implement P2P model: Each peer downloads part of the file from the server, and then distribute it to all the other peers.
3. Use Mininet to compare the overall file downloading time. Study how the number of downloading time changes with respect to the number of peers. You need to create the following star topology in Mininet. You can use one host as a server, and the other hosts as peers requesting files.