

Project

Group

- 1 or 2 students
- Group will choose the topic
- No more than 2 groups choose the same topic
- Topic have different level: easy --> difficult
- Language: Python is recommended

IPv6

- Research on IPv6
- Write a program to share file using IPv6
- Level 0 (1 student only)

HTTP/3

- Research on HTTP/3
- Document
- Demo using some of the open-source library
- Level 1

FTP client

- Write an FTP client which provide the following functions:
 - Connect to an FTP server
 - Login
 - List files on server
 - Download one or multiple files. Support multiple connections
 - Upload files
 - Rename files, folders
 - Create folders
- Level: 2
- No open source allowed

FTP server

- Write an FTP server with the following functions
 - Support basics CLI from ftp client
 - User management
- Level 6

HTTP downloader

- Download file(s) from given URL
 - Support multi part download
 - Support multi connections
 - Support proxy
 - Download from internet drive: mediafire.com
- Level 5

Multicast video streaming

- Write a program to stream video data to a group of hosts within a network
 - Support popular codecs: mp4, mkv...
 - Host can use media player to show