

Computer Networks Project

Topic: Peer-to-peer File Transfer

Slot: C1+TC1

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Basic Idea

Peer-to-peer (P2P) file transfer is a decentralized way to share files over the internet without relying on a central server. In a P2P network, users, referred to as “peers,” connect directly with one another, unlike the traditional client-server model where all file requests are routed through a main server. Each peer in the network acts as both a client and a server, meaning they can simultaneously download files from others and share their own files. This setup improves file-sharing efficiency by distributing the workload across all participating peers. It enhances download speeds and reduces the load on individual systems by leveraging the collective upload and download capabilities of the network. P2P networks are widely used for sharing large files like software, videos, and music.