Tracker - p1 p2 p3 p4 p5 p6 p7 p8 p9 p10

Sharing status 0/1 0/1 0/1 0/1 0/1 ----

FileInfo.txt sf1 sf2 sf3 sf4 sf5 sf6 sf7 sf8 sf9 s10

For the first time peer comes in network

- 1. Register: Portno: Userld:password
- 2. SharefiledetailsofPeer itself In format:

FileName:UserId:No_of_Blocks:Total_size:SHAofFullFile:SHAofEveryBlockAppendedUsingAterminationCharacter:\n

Shaoffirstblock_shaof second block_sha of thirdblock

- 3. To download files:
 - a. Step 1: getfiledetails from tracker
 - b. Step 2: Choose file name and send filename to tracker and tracker returns list of peers and details of the file for all those peers
 - c. Step 3: For first: Download whole file from any one peer
 - d. Step 4: Download 1/n part from each of n peer

Filesize /mms = #messages

How do we guarantee that every message is delivered accurately

SHA: SHA1(Data) returns unique string universally for any size of data: 2 gb,2 kb

Sha1 sent === sha1 received ⇒ packet delivered correctly

Sf1: harry potter 1 - 8 movies

1

It will send info about every file in a fixed format

We assume that FileName is Unique.

Fixed Block size = 512KB

No of blocks= Total size in KB/512

Bit vector: It represents that ith block is present for given file Name

Harry potter sorcerer stone: 1 GB =2048 blocks

Int Bit_vector[2048] =[] ith index value represent if the block is available to the userId of given

filename

Send this to tracker:

FileName:UserId:No_of_Blocks:Total_size:SHAofFullFile:SHAofEveryBlockAppendedUsingAterminationCharacter:\n

Map

FileName(Key): vector<pair<string(UserId),string(rest)>> (Value)

Map

UserId: PortNo

Download SHA1 function for C++

We divide file into blocks of 512KB ->calculate SHA1 for that block -> append it in a string (|,\,_)

jdsfisadf_iasdlfjds_lkasdflkjdsf_kasdjlkfjadsf_