

P2P File Sharing - Super-peers - Output

This is the output of two super-peers and two leaf-nodes running locally on a Windows machine. Some of the hashes get cutoff in this document but they are unique enough that the first part of each hash is sufficient.

Notes:

- When peers stream data to each other, they both print information about it
- Files are deleted, added, or modified by interacting with them directly in their respective directory
- Propagated requests print their unique message id alongside the log message to help keep track of each request
- This is the output when running the same setup and commands as in the Manual document

Super-peer 0

```
$ .\Client.exe -i 0 -c test_config_simple.json
[Indexer] INFO    : Running Server
[Indexer] INFO    : Running Client
[Indexer] DEBUG   : Connecting to index server at: 127.0.0.1:47900
[Indexer] INFO    : Server pinged! 0.083000ms
[Exchanger] DEBUG : Listening to port: 48900
[Console]         : Console start!
[File] DEBUG     : Hashing file: dup.txt
Client-0 > [Folder] DEBUG : File created: dup.txt
[Registry]        : New
                  ID: 0
                  name: dup.txt
                  hash: 395A71419DADACF6653548C449A207536831AF86ECF265E2067E0377A14A447F

[Peer] INFO      : Registered hash: dup.txt
[Registry]       : New
                  ID: 2
                  name: 2.txt
                  hash: 8C8C5354325CFD52914A7B36D8A28695F5DEDCBBABEE7C13BE2E02B0CAEF5A6D

[Indexer] DEBUG  : Request Listing 1
[List]          : Listing all files entries
[Indexer] DEBUG  : TTL finished 797849837586022540
[Indexer] DEBUG  : Returning results
[Indexer] DEBUG  : Request File 1
[Request]        : Searching for hash: 395A71419DADACF6653548C449A207536831AF86ECF265E2067E037
[Request] INFO   : Entry found
                  name: dup.txt
```

```
hash: 395A71419DADACF6653548C449A207536831AF86ECF265E2067E0377A14A447F
[Indexer] DEBUG : Request Search 1
[Search]       : Searching for query: dup
```

```
Client-0 > list
[indexRPCParse] INFO : Listing server file index
[Indexer] DEBUG : Request Listing -1
[List]         : Listing all files entries
[Indexer] DEBUG : Propagating query list 7721487775885090099 1
[Indexer] DEBUG : Returning results
Hash: 76BD6080BE28BDF33FA030A29A6D65849C2684F2F93DC3A41D3668801DF29FB1
Added on 05/03/2022 22:59:31
    Name: 3.txt
    Peers: 1
Hash: 395A71419DADACF6653548C449A207536831AF86ECF265E2067E0377A14A447F
Added on 05/03/2022 22:59:28
    Name: dup.txt
    Peers: 3
Hash: 8C8C5354325CFD52914A7B36D8A28695F5DEDCBBABEE7C13BE2E02B0CAEF5A6D
Added on 05/03/2022 22:59:30
    Name: 2.txt
    Peers: 1
```

```
Client-0 > [Indexer] DEBUG : Request File 1
[Request]       : Searching for hash: 8C8C5354325CFD52914A7B36D8A28695F5DEDCBBABEE7C13BE2E02B0CAEF5A6D
[Request] INFO : Entry found
    name: 2.txt
    hash: 8C8C5354325CFD52914A7B36D8A28695F5DEDCBBABEE7C13BE2E02B0CAEF5A6D
```

```
Client-0 > q
[Console] INFO : Exiting
[Folder] DEBUG : Stopped watching path for changes
[Exchanger] DEBUG : stopped receiving peer requests
[Indexer] INFO : Stopping Client
```

Super-peer 1

```
$ .\Client.exe -i 1 -c test_config_simple.json
[Indexer] INFO : Running Server
[Indexer] INFO : Running Client
[Indexer] DEBUG : Connecting to index server at: 127.0.0.1:47901
[Indexer] INFO : Server pinged! 0.095000ms
[Exchanger] DEBUG : Listening to port: 48901
[Console]       : Console start!
[FileClient-1 > ] DEBUG : Hashing file: dup.txt
[Folder] DEBUG : File created: dup.txt
[Registry]      : New
    ID: 1
    name: dup.txt
```

```

hash: 395A71419DADACF6653548C449A207536831AF86ECF265E2067E0377A14A447F

[Peer] INFO : Registered hash: dup.txt
[Registry] : New
ID: 3
name: 3.txt
hash: 76BD6080BE28BDF33FA030A29A6D65849C2684F2F93DC3A41D3668801DF29FB1

[Indexer] DEBUG : Request Listing -1
[List] : Listing all files entries
[Indexer] DEBUG : Propagating query list 797849837586022540 1
[Indexer] DEBUG : Returning results
[Indexer] DEBUG : Request File -1
[Request] : Searching for hash: 395A71419DADACF6653548C449A207536831AF86ECF265E2067E0377A14A447F
[Request] INFO : Entry found
name: dup.txt
hash: 395A71419DADACF6653548C449A207536831AF86ECF265E2067E0377A14A447F
[Indexer] DEBUG : Propagating query request 3498333107492499847 1
[Exchanger] DEBUG : p2p conn: 127.0.0.1:59862
[Exchanger Server] DEBUG : Sending ID
[Exchanger Server] DEBUG : Reading hash size
[Exchanger Server] DEBUG : Hash get: 395A71419DADACF6653548C449A207536831AF86ECF265E2067E0377A14A447F
[Exchanger Server] DEBUG : File found, sending size: 24
[Exchanger Server] DEBUG : Waiting to stream
[Exchanger Server] DEBUG : Streaming
[Exchanger Server] DEBUG : Written 100%
[Exchanger Server] INFO : Finished streaming
[Registry] : New
ID: 3
name: dup.txt
hash: 395A71419DADACF6653548C449A207536831AF86ECF265E2067E0377A14A447F

[Indexer] DEBUG : Request Search -1
[Search] : Searching for query: dup
[Indexer] DEBUG : Propagating query search 14412114876339529566 1
[Indexer] DEBUG : Request Listing 1
[List] : Listing all files entries
[Indexer] DEBUG : TTL finished 7721487775885090099
[Indexer] DEBUG : Returning results

Client-1 > request 8C8C5354325CFD52914A7B36D8A28695F5DEDCBBABEE7C13BE2E02BOCAEF5A6D
[indexRPCParse] INFO : Searching server peer index for: 8C8C5354325CFD52914A7B36D8A28695F5DEDCBBABEE7C13BE2E02BOCAEF5A6D
[Indexer] DEBUG : Request File -1
[Request] : Searching for hash: 8C8C5354325CFD52914A7B36D8A28695F5DEDCBBABEE7C13BE2E02BOCAEF5A6D
[Request] WARNING: No entries found with hash: 8C8C5354325CFD52914A7B36D8A28695F5DEDCBBABEE7C13BE2E02BOCAEF5A6D
[Indexer] DEBUG : Propagating query request 14638757213955201442 1
[2] 127.0.0.1:48902
Client-1 > [Exchanger] DEBUG : Connecting to peer: 2

```

```

[Exchanger Client] DEBUG : Receiving server ID
[Exchanger Client] DEBUG : ID match, sending hash: 8C8C5354325CFD52914A7B36D8A28695F5DEDCBBABEE7C13BE2E02B0CAEF5A6D
[Exchanger Client] DEBUG : Receiving file size
[Exchanger Client] DEBUG : Valid filesize, notifying server: 29
[Exchanger Client] DEBUG : Streaming
[Exchanger Client] INFO : Finished streaming
[File] DEBUG : Hashing file: 2.txt
[Folder] DEBUG : File created: 2.txt
[Registry] : New
            ID: 1
            name: 2.txt
            hash: 8C8C5354325CFD52914A7B36D8A28695F5DEDCBBABEE7C13BE2E02B0CAEF5A6D

```

```

[Peer] INFO : Registered hash: 2.txt

```

```

Client-1 > q
[Console] INFO : Exiting
[Folder] DEBUG : Stopped watching path for changes
[Exchanger] DEBUG : stopped receiving peer requests
[Indexer] INFO : Stopping Client

```

Leaf-node 2

```

$ .\Client.exe -i 2 -c test_config_simple.json
[Indexer] INFO : Running Client
[Indexer] DEBUG : Connecting to index server at: 127.0.0.1:47900
[Indexer] INFO : Server pinged! 0.083000ms
[Exchanger] DEBUG : Listening to port: 48902
[Console] : Console start!
[Client-2 > File] DEBUG : Hashing file: 2.txt
[Folder] DEBUG : File created: 2.txt
[Peer] INFO : Registered hash: 2.txt
[Exchanger] DEBUG : p2p conn: 127.0.0.1:59866
[Exchanger Server] DEBUG : Sending ID
[Exchanger Server] DEBUG : Reading hash size
[Exchanger Server] DEBUG : Hash get: 8C8C5354325CFD52914A7B36D8A28695F5DEDCBBABEE7C13BE2E02B0CAEF5A6D
[Exchanger Server] DEBUG : File found, sending size: 29
[Exchanger Server] DEBUG : Waiting to stream
[Exchanger Server] DEBUG : Streaming
[Exchanger Server] DEBUG : Written 100%
[Exchanger Server] INFO : Finished streaming

```

```

Client-2 > q
[Console] INFO : Exiting
[Folder] DEBUG : Stopped watching path for changes
[Exchanger] DEBUG : stopped receiving peer requests
[Indexer] INFO : Stopping Client

```

Leaf-node 3

```
$ .\Client.exe -i 3 -c test_config_simple.json
```

```
[Indexer] INFO    : Running Client
[Indexer] DEBUG   : Connecting to index server at: 127.0.0.1:47901
[Indexer] INFO    : Server pinged! 0.089000ms
[Exchanger] DEBUG : Listening to port: 48903
[Console]         : Console start!
[File] DEBUG     : Client-3 > Hashing file: 3.txt
[Folder] DEBUG   : File created: 3.txt
[Peer] INFO      : Registered hash: 3.txt
```

```
Client-3 > list
```

```
[indexRPCParse] INFO    : Listing server file index
Hash: 8C8C5354325CFD52914A7B36D8A28695F5DEDCBBABEE7C13BE2E02B0CAEF5A6D
Added on 05/03/2022 22:59:30
    Name: 2.txt
    Peers: 1
Hash: 395A71419DADACF6653548C449A207536831AF86ECF265E2067E0377A14A447F
Added on 05/03/2022 22:59:28
    Name: dup.txt
    Peers: 2
Hash: 76BD6080BE28BDF33FA030A29A6D65849C2684F2F93DC3A41D3668801DF29FB1
Added on 05/03/2022 22:59:31
    Name: 3.txt
    Peers: 1
```

```
Client-3 > request 395A71419DADACF6653548C449A207536831AF86ECF265E2067E0377A14A447F
```

```
[indexRPCParse] INFO    : Searching server peer index for: 395A71419DADACF6653548C449A207536831.
[1] 127.0.0.1:48901
[0] 127.0.0.1:48900
```

```
Client-3 > [Exchanger] DEBUG   : Connecting to peer: 1
```

```
[Exchanger Client] DEBUG   : Receiving server ID
[Exchanger Client] DEBUG   : ID match, sending hash: 395A71419DADACF6653548C449A207536831AF86ECF265E2067E0377A14A447F
[Exchanger Client] DEBUG   : Receiving file size
[Exchanger Client] DEBUG   : Valid filesize, notifying server: 24
[Exchanger Client] DEBUG   : Streaming
[Exchanger Client] INFO    : Finished streaming
[File] DEBUG     : Hashing file: dup.txt
[Folder] DEBUG   : File created: dup.txt
[Peer] INFO      : Registered hash: dup.txt
```

```
Client-3 > search dup
```

```
[indexRPCParse] INFO    : Searching server file index for: dup
Hash: 395A71419DADACF6653548C449A207536831AF86ECF265E2067E0377A14A447F
Added on 05/03/2022 22:59:28
    Name: dup.txt
    Peers: 3
```

```
Client-3 > q
```

```
[Console] INFO    : Exiting  
[Folder] DEBUG   : Stopped watching path for changes  
[Exchanger] DEBUG : stopped receiving peer requests  
[Indexer] INFO    : Stopping Client
```