



A SIMPLE NAPSTER STYLE PEER TO PEER FILE SHARING SYSTEM

Manual

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1. Installation Prerequisites

A. Software Prerequisites

1. Java SE Runtime Environment 8
2. Ubuntu nodes
3. Apache ant

2. Steps to Execute

Extract zip file to a location in your Linux environment.

Start Indexing Server:

1. Go to Indexing server folder in terminal and execute command:

```
ant clean
ant compile
ant jar
ant run
```

2. This will run Indexing server on port 9999.

```
Last login: Sun Jan 29 14:18:21 on ttys009
[➔ IndexServer git:(master) ✕ ant clean
ant compile
ant jar
ant run
Buildfile: /Users/Kunal/Documents/workspace/IndexServer/build.xml

clean:
  [delete] Deleting directory /Users/Kunal/Documents/workspace/IndexServer/build

BUILD SUCCESSFUL
Total time: 0 seconds
Buildfile: /Users/Kunal/Documents/workspace/IndexServer/build.xml

compile:
  [mkdir] Created dir: /Users/Kunal/Documents/workspace/IndexServer/build/classes
  [javac] Compiling 2 source files to /Users/Kunal/Documents/workspace/IndexServer/build/classes

BUILD SUCCESSFUL
Total time: 0 seconds
Buildfile: /Users/Kunal/Documents/workspace/IndexServer/build.xml

jar:
  [mkdir] Created dir: /Users/Kunal/Documents/workspace/IndexServer/build/jar
  [jar] Building jar: /Users/Kunal/Documents/workspace/IndexServer/build/jar/IndexServer.jar

BUILD SUCCESSFUL
Total time: 0 seconds
Buildfile: /Users/Kunal/Documents/workspace/IndexServer/build.xml

run:
  [java] Server starting at Port : 9999
  [java] Server Started
  [java]
```

Start Peer:

1. Go to P2P folder in another terminal window and open config.properties file. And make following changes

```
peer.port = 9990    // Do change port number for each peer, otherwise it will throw an error.
```

2. Then, execute command:

```
ant clean
ant compile
ant jar
ant run
```

This will start peer at port 9990

```
Last login: Sun Jan 29 19:06:44 on ttys000
➔ P2P git:(master) ✕ ant clean
ant compile
ant jar
ant run
Buildfile: /Users/Kunal/Documents/workspace/P2P/build.xml

clean:
[delete] Deleting directory /Users/Kunal/Documents/workspace/P2P/build

BUILD SUCCESSFUL
Total time: 0 seconds
Buildfile: /Users/Kunal/Documents/workspace/P2P/build.xml

compile:
[mkdir] Created dir: /Users/Kunal/Documents/workspace/P2P/build/classes
[javac] Compiling 7 source files to /Users/Kunal/Documents/workspace/P2P/build/classes

BUILD SUCCESSFUL
Total time: 0 seconds
Buildfile: /Users/Kunal/Documents/workspace/P2P/build.xml

jar:
[mkdir] Created dir: /Users/Kunal/Documents/workspace/P2P/build/jar
[jar] Building jar: /Users/Kunal/Documents/workspace/P2P/build/jar/P2PFileTransfer.jar

BUILD SUCCESSFUL
Total time: 0 seconds
Buildfile: /Users/Kunal/Documents/workspace/P2P/build.xml

run:
[java]
[java]
[java]
[java] *****
[java] * A Simple Napster Style Peer to Peer File Sharing System *
[java] *****
[java] 1. Register file on server
[java] 2. Search and download file
[java] 3. Search and delete file on server
[java] 4. Exit
[java] Enter your choice :
```

Repeat above steps by changing port in config.properties started in point (1) to run multiple peers.

Enabling Auto-Indexing option

1. In config.properties under P2P folder, there is one property called `peer.autoIndexingEnabled`.
2. If it is set to true then, after starting peer client, all files in shared folder of that peer will be automatically indexed into server.
3. By setting it to false, it will disable auto Indexing feature.

Note: After changing any property, you need to restart peer.