

Exercise No. 1
Peer-To-Peer Networks
Winter 2012

Exercise 1 *Gnutella*

Download and install a Gnutella client. Download the following files:

- P2P-01-Intro[Schindelhauer].mp4 (46.283.883 Bytes)
- P2P-02-Napster-Gnutella[Schindelhauer].mp4 (26.816.512 Bytes)

What do you observe regarding the

- search procedure,
- download,
- network structure,
- upload?

Be careful to download the correct files! The filesize is a good indicator. Compare this to what you have learned in the lecture!

Exercise 2 *BitTorrent*

Download and install a BitTorrent client. Try to find the same files you downloaded in the previous exercise (or similar ones) and download them.

Again, observe the

- search procedure,
- download process,
- network structure,
- upload.

Compare your observations to those of Gnutella! Reshare the two files with your Gnutella client!

Exercise 3 *CAN*

Show that the average degree of a CAN network for two dimensions and one reality is at most 8!