

Worksheet 5

1. Compare client-server and P2P architectures. List four P2P applications
2. In BitTorrent, Alice provides chunks to Bob throughout a 30-second interval. Will Bob necessarily return the favor and provide chunks to Alice in this same interval? Why or why not?
3. Consider a new peer Alice just joins BitTorrent. Without any chunks, she cannot become a top-four uploader for any of the other peers since she has nothing to upload. How then will Alice get her first chunk?
4. CDNs typically adopt one of two different server placement philosophies. Name and briefly describe them.
5. Besides network-related considerations such as delay, loss, and bandwidth performance, there are other important factors that go into designing a CDN server selection strategy. What are they?