Client Server and Peer-to-Peer Networking
With Professor Messer
URL: http://www.professormesser.com/n10-005/client-server-and-peer-to-peer-networking/

+ Questions

1. **In Client Server architecture, what is the central component?**
    a.   The server that each client must access to retrieve information or an application
2. **What are the advantages of Client Server architecture?**
    a.   Great performance and easy administration of the one machine
3. **What are the disadvantages of Client Server architecture?**
    a.   Expensive hardware more complex architecture and experience is needed to administer

+ Notes:

Applications generally have two different technologies to operate:
1. Client Server
2. Peer-to-peer

Client Server
- Clients talk to a central server
    o No client-to-client communication
        ▪ One work station will not communicate to another work station when requesting application data
- Advantages:
    o Great performance
        ▪ A single server designed to operate at high speed
        ▪ A single server can be maintained better
- Disadvantages:
    o Cost; hardware and maintenance is expensive
        ▪ Complex architecture… Experienced administrators needed

Peer-to-Peer
- All devices on the network communicate with each other
    o Act as both the client and server to an application
        ▪ Each device can contain files and pull files from one another

- **Advantages:**
    o Easy to deploy; low cost

- **Disadvantage:**
    o The application is everywhere…
        ▪ If you need to update, you update on ALL machines
    o Can't secure information well enough, there's information on ALL machines
    o Administration is tough…