CIT 383 Enterprise Networking

Yibo Wang
Lab 4

At the beginning
- Any question?
- Your quiz
  - Why do we need port?
  - What is the protocol for a network application?
- Homework 1

DNS Review
- Find the DNS server used by your computer:
  - `ipconfig /all` under Windows
  - `cat /etc/resolv.conf` under shell.uoregon.edu
- DNS cache
  - `ipconfig /displaydns` under Windows
- nslookup: for finding various details relating to DNS, especially a domain’s IP address
  - nslookup under Windows
  - can also use nslookup on Internet
  - use it reversely (http://www.whatismyip.com/)

DNS Review – cont.
- Domain Name Registrars: register your domain name
  - choose your domain and contact an accredited domain name registrar (http://www.icann.org/registrars/accredited-list.html) to have it assigned to you.
  - One of the most popular registrars right now is godaddy.com, because their prices are about as low as you can find.

Peer-To-Peer Applications
- Pure peer-to-peer systems
  - Peers act as equals, merging the roles of clients and server
  - No central server
- Hybrid peer-to-peer systems
  - Have central servers
  - Peers let central servers know what resources they have
- Examples: BitTorrent, eDonkey, Gnutella, Instant Messaging, P2PTV, DNS!

One P2P Application (IRC)
- A form of real-time Internet chat
  - Mainly designed for group communication, but also allows one-to-one communication
  - In the mode of one-to-one communication, it can been seen a P2P application
  - Software: mIRC
Transport Layer

- UDP
  - Connectionless
  - Unreliable, unordered
  - Simpler, smaller, and usually faster
  - A UDP simulator:
    http://www.cs.stir.ac.uk/~kjt/software/comms/jasper/UDP.html