Introduction
TDC 375 Prerequisites

- TDC 365 Network Interconnection Technologies

“A comprehensive study of network interconnection technologies including layer 2 bridges and switches, layer 3 routers and higher-layer gateways. The TCP and IP protocols will be studied in detail, including IP address management and router operations and management along with associated Internet protocols. RIP and OSPF protocols will be considered. Course includes laboratory work with protocol analyzers and router administration.”
TDC 563 Prerequisites

- TDC 463 Network Interconnection Technologies

“A detailed discussion of the upper layers of network architectures. Network protocol organization will be discussed using TCP/IP as an example. IP addresses, subnetting, supernetting, and CIDR. Routing algorithms. Transport layer protocols. Application layer protocols. Introduction to IPv6.”
TDC 375 per DePaul CDM

“Advanced routing technologies, BGP protocols, multi-area routing protocols, network management protocols, Secure protocols, IP multicasting protocols.”

• What is “advanced” routing technology?
• border gateway protocol protocols?
• Multi-area protocols, so all of IS-IS and OSPF?
• Secure protocols...so SSL/TLS/SSH/HTTPS?
• Seems like a continuation of 365 w/o the lab?
• Much left to interpretation, which I'll gladly do
TDC 563 per DePaul CDM

“Advanced topics in TCP/IP including IPv6, TCP traffic control, routing protocols, multicast routing protocols, and upper layer protocols supporting Quality of Service (QoS) in the new generation of the Internet; compression techniques; introduction to SNA and APPN, SNA and TCP/IP integration.”

• Routing protocols are now “advanced topics”?
• Upper layer protocols supporting QoS, such as?
• Compression? In a networks class?
• SNA, APPN, integration? Whiskey Tango Foxtrot!
• I think some minor 21st century tweaks are in order
jtk's TDC 375/563 Geek Check

- Can you understand any of these statements?
  - I've exhausted this /24, I need more addresses.
  - My MAC address is 00:01:54:32:AC:59.
  - Download the pcap and pull it into Wireshark.
  - Find the RFC and see what it says.
  - Bridges are switches, L3 switches are routers.
  - The ARP cache entry timed out.
  - TCP port 23 is blocked by a packet filter firewall.
- If they're all Greek to you, prepare to struggle here.
Administrivia

- Course topics
- Grading methodology and policy
- Contact and office hours information
- Bonus and extra credit offerings
- Required and recommended books
- Combined course (TDC 563 and TDC 375)
  - http://condor.depaul.edu/jkristof/tdc*/syllabus.txt
  - http://condor.depaul.edu/jkristof/tdc*/bonus.txt
  - http://condor.depaul.edu/jkristof/tdc*/errata.txt
WHOAMI

- Name
- Educational track
- Career track
- Best class and why
Points of Interest

http://condor.depaul.edu/jkristof/
http://iorc.depaul.edu
http://www.cymru.com/jtk/
http://dragonresearchgroup.org
http://nanog.org
http://ietf.org
http://first.org
http://ops-trust.net
http://ren-isac.net