

Fundamentals of Data Communications

Final Review

Levi Perigo, Ph.D.
University of Colorado Boulder
Department of Computer Science
Network Engineering

Internships

Interviews

Final Schedule

Final Exam Format

- Online in class (bring laptop)
 - Spread out
- ~45 Questions
- 75 Minutes
- 10 Multiple Choice (1 point)
- 30 Single Answer (3 points)
- 5 Long/Multiple Answer (5 points)
 - Short and to the point
 - Does not need to be in sentence format
 - If question asks for "two answers" provide 2 and only 2
- 2 Essay (10 points)



Material

Assignments

Quizzes

Readings

Labs

Topics

OSI Model

Trunking

- OS shell/terminal
- IPv4 Addressing
 - Public vs. Private
- Network Topologies and Media
- Subnetting
 - IPv6

- Switching
 - STP
 - VLANs

Routing



Topics

- Protocol Analyzers (Wireshark)
- Security
- Applications: DHCP, HTTP, DNS, etc.
- TCP

Cloud & Data Center

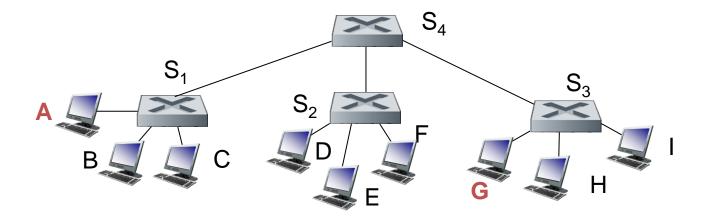
Wireless

 Troubleshooting Framework

Linux



Interconnecting Switches



Routing Between VLANs with 802.1Q Trunks

