Networked and Distributed Systems

Vitaly Shmatikov
Motivation

◆ The Internet
  - Every system you use or build does and will depend on it – good to know how it works
  - Lessons for scalability, longevity and robustness

◆ Distributed Systems
  - Key techniques for building robust, scalable and performant systems on top of Internet infrastructure
  - Mobile, Web, cloud, P2P...
Course Logistics

◆ Lectures: Monday Wednesday, 1:55-3:10pm
◆ Course webpage:

https://pages.github.coecis.cornell.edu/cs5450/website/

◆ Part-time TA: Eugene Bagdasaryan
◆ Grader: Yuan Xuan
Grading

- Weekly class attendance/participation (solo): 10%
- Four labs (in rotating pairs): 60% (15% each)
  - Implementation, data capture, analysis
  - 2 late days to use as you see fit... once used up, no late assignments accepted (applies to both team members)
- Two in-class midterms (solo): 30% (15% each)
  - Pen-and-paper exercises, 1-page reference sheet Ok
Syllabus

Wi-Fi

DNS

youtube.com

172.217.16.174

TCP/IP

Routing

youtube.com