Internet Control Plane

Prof. Anja Feldmann, Ph.D.

anja@inet.tu-berlin.de
http://www.inet.tu-berlin.de/
General information (1)

- Part of INET Modules Specialization small/large
- Time
  - Fri: 10ct – 11:45
- Room
  - MAR 0.009
- Language
  - English (questions can be asked in German!)
- Web site
  - http://www.inet.tu-berlin.de/menu/teaching0/
General information (2)

- **Prerequisite**
  - Network Protocols and Architecture
  - Basis Kommunikationsnetze
    or corresponding experience

- **Exam**
  - For those that need it 😊
  - Oral or written exam after semester end
    (depends on # of participants)
What is this course?

- Not an introduction to the Internet
- Focus: Routing in the Internet
  - Methodology
    - Principles
  - How does routing in the Internet actually look like
    - Different protocols, Business structure
    - Topology / route choice
  - How do the differences in wireless change the routing protocol choices
- Future Routing Architectures
- Data Centers
- SDN, ...
Start: Review by example

- Overview Internet architecture
- Internet protocols
  - TCP, UDP, IP, IP addresses
- Internet Applications
  - Web, DNS, ...
- Layer 2
  - Ethernet / Switching / ARP
- Introduction to wireless / 4G
  - Channel characteristics / Mobility / Failures