Peeking inside the Network with Traceroute

David Wetherall  (djw@uw.edu)
Professor of Computer Science & Engineering

UNIVERSITY of WASHINGTON
Network Service API Hides Details

• Apps talk to other apps with no real idea of what is inside the network
  – This is good! But you may be curious ...
Traceroute

- Widely used command-line tool to let hosts peek inside the network
  - On all OSes (tracert on Windows)
  - Developed by Van Jacobson ~1987
  - Uses a network-network interface (IP) in ways we will explain later

: Credit: Wikipedia (public domain)
Traceroute (2)

- Probes successive hops to find network path
Traceroute (3)
Using Traceroute
Using Traceroute (2)

- ISP names and places are educated guesses

![Diagram showing network connections and latency times](chart.png)

- My computer to www.uw.edu (www1.cac.washington.edu)
END

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