CS 268: Lecture 25 Internet Indirection Infrastructure

Ion Stoica Computer Science Division Department of Electrical Engineering and Computer Sciences University of California, Berkeley Berkeley, CA 94720-1776



Why? Point-to-point communication → implicitly assumes there is one sender and one receiver, and that they are placed at fixed and well-known locations E.g., a host identified by the IP address 128.32.xxx.xxx is located in Berkeley

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Example 2: Scalable Multicast (Discussion)

Unlike IP multicast, i3

- Implement only small scale replication → allow infrastructure to remain simple, robust, and scalable
- Gives end-hosts control on routing → enable endhosts to
 - Achieve scalability, and
 - Optimize tree construction to match their needs, e.g., delay, bandwidth

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Why End-Hosts (and not Network)?

- End-hosts can better react to an attack
 - Aware of semantics of traffic they receive
 - Know what traffic they want to protect
- End-hosts may be in a better position to detect an attack
 - Flash-crowd vs. DoS



























