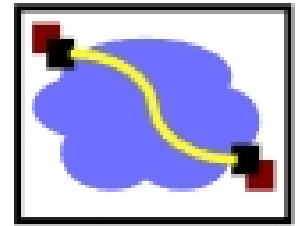




15-441: Computer Networking

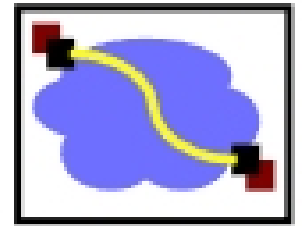
Lecture 25: Multicast Challenges, CDN and P2P systems

Overview



- Multicast Challenges
- Content Distribution Networks
- Peer-to-Peer Networks

Multicast Issues



- **Reliable transfer**
 - ACK/NACK Implosion
 - Exposure
- **Reliable Multicast Protocols**
 - Scalable Reliable Multicast
 - Reliable Multicast Transport Protocol
 - Pragmatic General Multicast
 - Lightweight Multicast Service
- **Congestion control**