NetworkTuning

Network Tuning

This section describes a few ways that can be used to improve performance of a network.

- Active Queue Management (AQM) is a class of router mechanisms for improving perceived network performance by managing buffers intelligently.
    - Random Early Detection (RED) is an important example of an AQM strategy.
- Explicit Congestion Notification (ECN) can be used with AQM-performing gateways to signal (light) congestion without dropping packets.
- Differentiated Services can be used to compose various kinds of service assurances and priority systems from simple building blocks
- Integrated Services is an earlier IETF framework for quality of service differentiation using *per-flow reservations*
- Sizing of router buffers presents a difficult optimization problem, trading off queuing delay against *link utilization*.
- Buffer Bloat is the name of the issue created by a big buffer size on networks with speeds less than 100 Mbps.
- Network proxies or so-called "WAN accelerators" is a way to speed up transmissions between sites without modifications to end hosts or protocols.
- Finally, some tuning hints specific to Cisco routers.

– Main.SimonLeinen - 01 Nov 2004 - 30 Mar 2006

– Main.PekkaSavola - 13 Jun 2008 (addition of WAN accelerators)

-- Alessandra Scicchitano - 11 Jun 2012 (Buffer Bloat)