Software Defined Networks (SDNs)

SDNs rest on pillars:

1. Separation of data and control planes
   - MPLS (Data forwarding Push/Pop/swap)

   LDP
   RSVP   OSPF
   St-v   / Find LSP
   LSP   paths

2. Forwarding decisions can be made on more info than dest. addresses (Layer 4, Layer 7 switches)

3. Control logic/software can be moved to an external entity

4. Network functionality can be programmed w/ software

1. Ethernet
   - Pervasive
   - Low cost
   - Features rich

   • Merchant Silicon for Ethernet switching

2. Open source movement

3. OpenFlow -- Interface for switch control

Single Point of Failure

1. Logical controller "centralized"

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