Finish MPLS; Intro to VPN Services

Agenda

– In The News: https://mobile.slashdot.org/story/19/02/23/2323227/nyt-reporter-ditched-my-phone-and-unbroke-my-brain
– Exam dates
  – **SBA**: **Wed April 15**; 2.5 hrs; **T108**, groups posted on BS by ~Mar 30
  – **Theory exam**: **Tue April 14 @ 2pm**; 3 hrs; (room TBC)
– Term Test #2: **Fri March 13** 10am, room T327
  – covers all lecture & lab material up to and including Wed Mar 11
  – skip Module 5 slides 93-140 (details of Bandwidth constraints)
– Reminder: Nokia field trip next Wed Mar 4 9am-11:30am   **600 March Rd**
  – organize car-pooling; pls arrive directly on site _before_ 9am to sign in.
– Complete material from Module 4: RSVP Optimizations (slides 43-58)
– Lab prep: Review of Module 5, Section 5 - MPLS for IP Routing
  – For LDP-over-RSVP, what routers have knowledge of the t-LDP label?
  – 6PE: IPv6 at the Provider Edge, then over IPv4 through the core
– (Coming next) Start VPN Services: SA Module 1; NRS-II Ch 17
– Hand back test #1; marks and solutions posted online

Assignments and Lab work

– Read: SA Module 1 by Wed Mar 4
  (Ya might want to really know something about it for the field trip!)
  Ref: NRS-II book: Chapter 17
– (Lab 6 post-lab: was due today @ noon)
– Lab 7: IPv6 over MPLS (NRS-II Lab 13.4)
– Lab 7 postlab due 11:59pm as per the regular day for your lab section
– (Coming next) Lab 8: SA Lab 2: basic Epipe / VPWS service

Uses for Label Switching

– LDP or RSVP shortcuts for forwarding regular IP traffic
– LDP or RSVP shortcuts for resolving BGP next-hops
– LDP for creating IPv6 tunnels across IPv4-only MPLS networks
– RSVP-TE for TE, possibly with LDP-over-RSVP
– VPN Services at L1, L2, L3!!!

Since this last one is so exciting, we'll take our first peek into SA in lecture today.