FRR;   VPRNs

Essentials: FRR operational rules

Agenda

– Notice: **Post-lab #12** official due-date 11:59pm **Wed Apr 10** for everyone
– Notice: SBA: 2.5 hrs, **Sat Apr 13ʰ**; times/sections posted on BrightSpace
  – study guide & preview posted on course site
– Encouragement for the weather: https://www.youtube.com/watch?v=wkDvqQKGgDA
– Nokia EDU labs OSPF "stuck in loading" problem should be fixed:
  "Mar 29: We plan to update our lab setup scripts to properly reset the virtualization infrastructure prior to each lab reset. You should hopefully not see this issue again"
– Complete Module 6 FRR: slide 120 onwards
  – considering and handling all the "what-if" conditions of FRR
– Review: 6PE - principles of operation; protocols & config req'd at each node
– 2 nd hour: start with VPRN basics – SA Mod 5, slides 28-54
  – (1) MP-BGP on PE's; (2) VRPN service; (3) Proto for PE-CE routing

Assignments and Lab work

– Lab 11 post-lab: due Thu/Sat according to your lab section
– Lab #12 (last one!): VPRN (from SA Lab 9 – VPRN)
  – Post-lab #12 due-date is 11:59pm Wed Apr 10 for everyone
– Start preparing for SBA:
  – Necessarily includes everything you know about routing protocols, especially OSPF and BGP
  – Really know & understand IPv6 configuration on Nokia equipment
  – LDP, RSVP, and LSPs
  – Direct uses for MPLS: IGP-shortcuts, 6PE, iBGP full-mesh, LDP-o-RSVP
  – Service components:
    – ports pre-configured for SAPs; pre-configured LSPs for SDPs
    – SAPs, and SDPs used in both spoke & mesh mode
    – epipe, VPLS, IES, VPRN
  – Really understand SAPs: what's stripped/added, when, and why
  – Really understand MTU issues and calculations
  – Lab Exam study guide is posted on course site with more details