

## MPLS LSP Protection

Essentials: Failure detection; (Hot-)Standby vs non-standby Secondary LSPs

### Agenda

- Notice: **Post-lab #12** official due-date 11:59pm **Wed Apr 11** for everyone
- Review: Topology for Post-Lab 9 which uses spoke-terminated VPLS
  - definition of a *local* vs *distributed* VPLS
- Back to MPLS: Module 6 on Resiliency: Secondary LSPs and FRR
  - Yes, there's some jumping back & forth but it works out well in the end ...
- Return Test #2; marks posted to BB along with average of both tests

### Assignments and Lab work

- Read: NRS-II Ch 16 and MPLS Module 6 slide deck; due by next Mon
- Lab 9 post-lab: due **11:59pm on Sat Mar 24** for everyone.
- Lab #10: VPLS spoke-terminated to an IES = SA Lab guide, lab #8

### MPLS Resiliency

The key to this section is understanding the difference in behaviour between *Standby* and *Non-Standby* secondary LSPs, and Fast Re-Route for *node* or *facility* protection.

For the FRR, consider the difference between link colouring vs strict/loose paths:

- Which one allows a *node* (ie. router) to be specified, but *not* a link?
- Which allows a *link* to be specified, but *not* a node?

Be sure to make a chart of all the different terminology in this Module:

- primary LSP; secondary LSP; (hot) standby; non-standby
- one-to-one backup; facility backup; node protection; link protection
- PLR; MP; head end; tail end