

Quiz on Assigned Readings and LDP

4 Marks

Name: _____

1. [2 marks] Provide convincing proof that you've done a reasonable amount of the assigned readings from the NRS-II textbook.

e.g. What topics have been covered in the readings? What are the chapter #'s? Approximately whereabouts in the book are the readings from (page #'s)? Each & every chapter has the same structure (3-4 sections); describe them! Anything else that clearly demonstrates you've been doing some reading?!

The readings have been from Chapter 11 & 12

(though reference material for labs & post-labs are from Ch. 5)

These chapters are roughly 500-600 pages into the book

The topics covered (in order) are: Intro to MPLS (data plane, control plane) and LDP.

Chapters have 3-4 parts: an assessment, the material, labs, chapter Q's

2. [1 mark] Referencing LDP headers, where is the **system** interface used?

In IPv4, it's the default Router ID and used as the first 4 bytes of LDP-id. It's also used as the default Transport Address.

3. [1 mark; all-or-nothing] Prove that you've paid attention to the difference between the LIB and the LFIB in the LDP slide deck: What is the command to display each? Hint: both start with "show router ldp b..."

full LIB: show router ldp bindings

LFIB: show router ldp bindings active

4. [1 mark; Bonus] Which display (LIB, LFIB) is easier for humans to read and why? (Give some details to back up your answer.)

I agree with every student I've ever had that the LFIB is easier, e.g.:

– It explicitly shows the label operation (push, swap, pop)

– for label swap, the ingress + egress labels are together on the same line

– simpler/smaller: labels that are not used aren't shown