

Label Distribution Protocol

Essentials: Characteristics & parameters of LDP

Agenda

- Post-lab tip: batch file for connecting to MySRLab, e.g. for post-labs
- Quick review of material from previous day (*lots* of new terminology)
- Lab prep: Only a few commands are required for (link-)LDP configuration
- Complete MPLS Module 2, section 2:
 - Special use labels: Implicit and explicit NULL (& PHP); router Alert
- Start MPLS Module 3, section 1
 - the section summary on slide 63 is a good starting point for studying for quizzes & term tests!

Assignments and Lab work

- (Assigned on Monday: read in NRS-II: Ch 11, pages 513-525)
- Due by next Monday: read in NRS-II: Ch 12, pages 527-555
- Lab 2 post-lab: due by 11:59pm the **day before your next lab** section
- Lab work: Nokia MPLS Lab Guide, Labs 3.1-3.3 (use all /24 subnets)

References

- Original MPLS RFC3031: <http://tools.ietf.org/html/rfc3031> (updates exist)

Cross-ref: MPLS Course & NRS-II book

Here's a handy chart for when you're studying!

MPLS Course		NRS-II book	
1	Intro to MPLS	11.1-11.3	Intro to MPLS
2	Fundamentals	11.4-11.8	Intro to MPLS
3	LDP	12	LDP
4	RSVP	13	RSVP-TE Operation
5	Traffic Engineering	14,15	RSVP-TE: Routing & Reservations
6	Resiliency; FRR	16	Resiliency

Lab Prep

Very few commands are required for basic (link-) LDP. Compare with OSPF:

OSPF

```
A:R1>config>router>ospf# area 0
A:R1>config>... #> info
-----
interface system
exit
interface toR2
exit
interface toR3
exit
interface toR4
exit
```

LDP

```
A:R1>config>router>ldp# info
-----
interface-parameters
interface "toR2"
exit
interface "toR3"
exit
interface "toR4"
exit
exit
```

... and then lots of show commands to see what's happening!

Module 3, Section 1 Summary

- Link vs Targeted (... LDP)
- LDP parameters
- Session establishment and "maintain-ance"
- OAM lsp-ping and lsp-trace