

# Juniper MPLS

This intermediate Juniper MPLS training teaches network administrators how to configure and manage MPLS on Juniper devices to optimize traffic routing and improve bandwidth without compromising security. Learn how to engineer custom traffic patterns, bypass routing tables, and enhance network performance using Junos OS. This Juniper MPLS eLearning course is ideal for onboarding new admins or as a reference for team training in MPLS technology.

[CBT Nuggets course material](#) →

## WEEK 1

### Understand MPLS Foundations

160 min.

Introducing MPLS	2
The Benefits of MPLS	14
The Concept of Pseudowires	6
MPLS Packet Flows and Key Terms	11
A Closer Look at the Penultimate Hop	5
Enabling MPLS on Junos	7
Configure a Static LSP	10
What Signaling Protocols Do	5
Summarizing MPLS	1

### MPLS: Deploy LDP and RSVP on Junos

Overview	1
Introducing Label Signaling Protocols	1
LDP Foundations	11
Deploying LDP	7
Validating LDP	5
RSVP Path Construction	16
Explicit Route Objects (ERO)	7
Deploying RSVP	7
Exploring Bandwidth Reservation and EROs	7
Validating RSVP	6
Other Powerful RSVP Mechanisms	8
Summarizing Label Signaling Paths	1

### MPLS: Design and Deploy Constrained Shortest Path First (CSPF)

Overview	1
Introducing CSPF	1

The Dynamic Traffic Engineering Solution 18

## WEEK 2

**53 min.**

Exploring TED Closer 7

How CSPF Works (Deploying CSPF) 9

Tie-Breaking Rules Explored and Configured 7

Administrative Groups (Link Colors) 5

Configuring Administrative Group Constraints 10

Bidirectional LSPs 4

Measuring Bidirectional LSP Performance 9

Summarizing CSPF 1