Junos Segment Routing for MPLS

Category: Networking & Security | **Vendor:** Juniper

Duration: 32.00 hours (4 days) **26.0 CPD Hours** **Rating:** ⭐ 4.6 (5,878 reviews)

Course Information

Delivery Format: Instructor Led - Online

Course Overview

This one-day course is designed to provide in-depth instruction on segment routing, or Source Packet Routing in Networking (SPRING). The course focuses on the configuration of Juniper Networks routing and switching devices to support segment routing using MPLS switching. Topics include functional concepts, the configuration of the IGPs used to propagate label information within a domain, segment routing traffic engineering using BGP colored routes, and redundancy/high availability concepts including BFD, Topology Independent Loop-Free Alternative (TI-LFA), Anycast Segments, and the implementation of link aggregation in a segment routing design.

About This Course

Day 1

Chapter 1: Course Introduction

Chapter 2: Segment Routing Overview

- MPLS Forwarding Overview
- SPRING Concepts
- Segment Routing Architecture
- SDN and Segment Routing Overview

Chapter 3: Configuring Segment Routing

- Segment Types
- Configuring, Monitoring, and Verifying Segment Routing
- Configuring, Monitoring, and Verifying Segment Routing Traffic Engineering
- Lab: Configuring Segment Routing
- Basic Segment Routing
- Segment Routing Traffic Engineering (TE)

Chapter 4: Segment Routing Redundancy and High Availability

- IP/MPLS Protection Mechanisms
- Topology Independent Loop-Free Alternative
- Link and Node Protection
- Fate Sharing
- Label Stacking for Backup Paths
- Anycast Segments
- Segment Routing with Link Aggregation Groups (LAG)
- Lab: Segment Routing Redundancy and High Availability
- Configuring TI-LFA
- Configuring Anycast Segments

- Configuring Link-Specific Labels for LAG

Appendix A: NorthStar Segment Routed LSPs

Who Should Attend

The primary audiences for this course are the following:

- Service Provider design engineers
- Campus and Enterprise design engineers

Prerequisites & Entry Requirements

General Prerequisites:

The following are the prerequisites for this course:

- Understanding of the OSI model.
- Advanced routing knowledge; the Advanced Junos Enterprise Routing (AJER) course or equivalent knowledge strongly recommended.
- Intermediate knowledge of MPLS functions.
- Intermediate to advanced Junos CLI experience.

Learning Outcomes

Upon successful completion of this course, participants will be able to:

After successfully completing this course, you should be able to:

- Describe and configure segment routing.
- Describe and configure traffic engineering with segment routing static paths.
- Describe and configure traffic engineering paths using BGP and colored route tags.
- Describe and configure TI-LFA.
- Describe and configure Anycast segments.
- Describe and configure LAG in a segment routing design.

Skills You Will Learn:

After successfully completing this course, you should be able to:

- Describe and configure segment routing.
- Describe and configure traffic engineering with segment routing static paths.
- Describe and configure traffic engineering paths using BGP and colored route tags.
- Describe and configure TI-LFA.
- Describe and configure Anycast segments.
- Describe and configure LAG in a segment routing design.

Frequently Asked Questions

Q: What delivery options are available for Junos Segment Routing for MPLS?

We offer multiple delivery formats:

- Live Instructor-Led Classroom Online (Virtual/Live Online)
- Traditional Instructor-Led Classroom Training (ILT)
- On-site delivery at your offices anywhere in United Kingdom
- Private dedicated courses customized for your team

Q: How many CPD hours does this course provide?

The 4-day Junos Segment Routing for MPLS course provides up to 26.0 CPD hours of structured learning. CPD certificates can be provided upon request.

Q: What is the duration of the Junos Segment Routing for MPLS training?

The training takes place over 4 day(s), with each day lasting approximately 32.00 hours including breaks for lunch and refreshments.

Q: Do you provide corporate training for Junos Segment Routing for MPLS?

Yes, we provide corporate training, dedicated training, and closed classes for Junos Segment Routing for MPLS. Training can take place anywhere in United Kingdom including London, Manchester, Birmingham, Edinburgh, or live online allowing teams from across United Kingdom or internationally to attend.

Q: What related terms do people search for?

Popular related searches include: Junos Segment Routing for MPLS, Enterprise Routing & Switching, JSR

Q: Why choose Nexus Human for Junos Segment Routing for MPLS?

Nexus Human is recognized as one of the leading training providers. Our trainers have won multiple awards including:

- Small Firms Best Trainer Award
- National Training Partner of the Year (Ireland) - Multiple Years
- Global Top 30 Instructor Awards (2012, 2019, 2021)
- Tech Excellence Award Nominations
- Learning Performance Institute (LPI) External Training Provider Sponsor 2024

Q: Are there any discount codes available?

Yes! Use discount code **PENPAL5** when booking your Junos Segment Routing for MPLS training. Please note that only one discount code can be used per booking and cannot be combined with other special offers.

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