

Implementing Segment Routing on Cisco IOS XR (SEGRTE201) v2.0

What you'll learn

The Implementing Segment Routing on Cisco IOS XR (SEGRTE201) v2.0 training covers the fundamental concepts of Segment Routing (SR), how to configure and verify segment routing within an Interior Gateway Protocol (IGP), and the interworking of Label Distribution Protocol (LDP) with segment routing. You will learn how to implement Topology-Independent Loop-Free Alternate (TI-LFA) using segment routing, and how to instantiate and verify segment routing traffic engineering policies. You will also learn how to implement segment routing within Border Gateway Protocol (BGP).

How you'll benefit

This training will help you:

Learn how to configure and verify segment routing within an Interior Gateway Protocol (IGP)

Prepare to implement topology-independent loop-free alternate using segment routing

Learn to implement segment routing within Border Gateway Protocol

Who should enroll

Systems engineers

Network engineers

Field engineers

Technical support personnel

Channel partners and resellers

Technology areas

Networking

Service provider

Training overview

Objectives

After taking this training, you should be able to:

Describe the key concepts of segment routing

Implement and verify IGP segment routing



Migrate an existing Multiprotocol Label Switching (MPLS) LDP-based network to segment routing

Implement and verify TI-LFA segment routing

Instantiate segment routing policies

Instantiate multidomain segment routing policies

Configure and verify BGP prefix segments and SR-based services

Prerequisites

Before taking this training, you should have:

Familiarity with Cisco Internetwork Operating System (IOS®) XR software

Knowledge of general networking concepts

Lab outline

Configuring and Verifying IGP Segment Routing

Migrating from LDP to Segment Routing

Configuring and Verifying TI-LFA Fast Reroute

Configuring and Verifying SR Policies

Configuring and Verifying Multidomain SR-TE

Configuring and Verifying BGP Segment Routing