# Junos Intermediate Routing

**JIR**

**Delivery Type:** Classroom
**Duration:** 2 days

## Overview

This two-dayinstructor ledcourse provides students with intermediate routing knowledge and configuration examples. The course includes an overview of protocol-independent routing features, load balancing and filter-based forwarding, OSPF, BGP, IP tunneling, and high availability (HA) features.

Through demonstrations and hands-on labs, students will gain experience in configuring and monitoring the Junos OS and monitoring device operations. This course uses Juniper Networks SRX Series Services Gateways for the hands-on component, but the lab environment does not preclude the course from being applicable to other Juniper hardware platforms running the Junos OS. This course is based on Junos OS Release 12.1R1.9.

## Pre-Requisites

Attendees should meet the following prerequisites:
Students should have basic networking knowledge and an understanding of the Open Systems Interconnection (OSI) reference model and the TCP/IP protocol suite. Students should also attend the Introduction to the Junos Operating System (IJOS) and Junos Routing Essentials (JRE) courses prior to attending this class.

## Objectives

After you complete this course you will be able to:

- ✓ Describe typical uses of static, aggregate, and generated routes.
- ✓ Configure and monitor static, aggregate, and generated routes.
- ✓ Explain the purpose of Martian routes and add new entries to the default list.
- ✓ Describe typical uses of routing instances.
- ✓ Configure and share routes between routing instances.
- ✓ Describe load-balancing concepts and operations.
- ✓ Implement and monitor Layer 3 load balancing.
- ✓ Illustrate benefits of filter-based forwarding.
- ✓ Configure and monitor filter-based forwarding.
- ✓ Explain the operations of OSPF.
- ✓ Describe the role of the designated router.
- ✓ List and describe OSPF area types.
- ✓ Configure, monitor, and troubleshoot OSPF.



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- ✓ Describe BGP and its basic operations.
- ✓ Name and describe common BGP attributes.
- ✓ List the steps in the BGP route selection algorithm.
- ✓ Describe BGP peering options and the default route advertisement rules.

## Target Audience

This course benefits individuals responsible for configuring and monitoring devices running the Junos OS.

## Certification

Recommended preparation for exam(s):

- ✓ Exam code: JN0-343 - Juniper Networks Certified Internet Specialist (JNCIS-ENT)

## Follow on Courses

The following courses are recommended for further study:

- ✓ Junos Enterprise Switching (JEX)



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