

PÚBLICO

The primary audiences for this course include:

- Individuals who are responsible for network security.
- Individuals who want to learn how to secure their networks using SRX Series Firewalls

PRÉ-REQUISITOS

- Basic networking skills.
- General understanding of networking architecture.

VISÃO

This three-day, intermediate-level course provides students with intermediate routing knowledge and configuration examples. The course includes an overview of protocol-independent routing features, OSPF, IS-IS, BGP, routing policy, IP tunneling, load balancing, high availability (HA) features, Virtual Router Redundancy Protocol (VRRP), and IPv6.

Through demonstrations and hands-on labs, students will gain experience in configuring and monitoring Junos OS and monitoring device operations. This course uses Juniper Networks vSRX 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 Junos OS. This course is based on Junos OS Release 25.2R1.

Day 1

Module 01: Routing Fundamentals

- Explain the role of a router in a network
- Define the difference between directly connected, static, and dynamic routes
- Explain how route preference selects the best route to a destination
- Explain the process of longest prefix match lookups
- Demonstrate how to view and verify the inet.0 and inet6.0 routing tables

Module 02: Protocol Independent Routing

- Configure static routes
- Configure aggregate routes
- Configure generated routes
- Manage martian routes

Lab 01: Protocol Independent Routing

Module 03: Fundamentals of OSPF

- Describe OSPF
- Explain adjacency formation and the designated router election
- Explain OSPF scalability
- Explain basic OSPF configuration

Module 04: Routing Policy

- Explain how import and export policies can re-advertise prefixes between protocols
- Describe the CLI syntax of a routing policy
- Demonstrate how a routing policy can export static routes into OSPF

Module 05: Deploying OSPF

- Configure and monitor OSPF
- Troubleshoot OSPF

Lab 02: OSPF

Day 2

Module 06: IS-IS

- Explain IS-IS
- Describe IS-IS PDUs
- Define adjacency formation and DIS election
- Configure and monitor IS-IS
- Troubleshoot IS-IS

Lab 03: IS-IS

Module 07: Fundamentals of BGP

- Explain BGP
- Describe BGP attributes

Module 08: Deploying BGP

- Explain IBGP and EBGP
- Configure and monitor BGP
- Describe the BGP route reflection operation
- Examine the route reflection configuration

Lab 04: Border Gateway Protocol

Module 09: Advanced Routing Policy Features

- Describe advanced route-filter options
- Describe how to refer to a prefix list in a routing policy

- Explain route filters with mixed prefix lengths

Module 10: Routing Instances

- Describe routing instances
- Configure and share routes between routing instances

Lab 05: Routing Instances

Module 11: Load Balancing

- Describe the load-balancing concepts and operations
- Implement and monitor Layer 3 load balancing

Lab 06: Load Balancing

Day 3

Module 12: VRRP

- Describe, configure, and monitor VRRP

Module 13: Graceful Restart and Bidirectional Forwarding Detection

- Describe high availability
- Explain graceful restart
- Explain Bidirectional Forwarding Detection

Lab 07: High Availability

Module 14: GRES, NSR, and Unified ISSU

- Explain graceful Routing Engine switchover
- Explain nonstop active routing
- Explain unified ISSU

Module 15: IP Tunneling

- Describe IP tunneling
- Describe GRE and IP-IP tunnels
- Deploy GRE and IP-IP tunnels

Lab 08: IP Tunneling

Module 16: IPv6

- Explain IPv6 addressing
- Explain routing protocol configuration examples
- Describe tunneling IPv6 over IPv4

Lab 09: IPv6

Próximas turmas

04/11/2026

Carga horária 24 horas

Modalidade Online

Horário 09:00 às 18:00

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