Junos Intermediate Routing (JIR)

ID JIR **Prix** CHF 2 700,– (Hors Taxe) **Durée** 3 jours

A qui s'adresse cette formation

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

Cette formation prépare à la/aux certifications

Juniper Networks Certified Internet Specialist Enterprise Routing & Switching (JNCIS-ENT)
Juniper Networks Certified Internet Specialist Service Provider Routing & Switching (JNCIS-SP)

Pré-requis

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 Junos Software (IJS) and Junos Routing Essentials (JRE) courses prior to attending this class.

Objectifs

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.
- 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.
- Configure and monitor BGP.
- Describe IP tunneling concepts and applications.
- Explain the basic operations of generic routing encapsulation (GRE) and IP over IP (IP-IP) tunnels.
- Configure and monitor GRE and IP-IP tunnels.
- Describe various high availability features supported by the Junos OS.
- Configure and monitor some of the highlighted high availability features.

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Day 1

Chapter 1: Course Introduction

Chapter 2: Protocol-Independent Routing Static Routes Aggregated Routes Generated Routes Martian Addresses Routing Instances Lab 1: Protocol-Independent Routing

Chapter 3: Load Balancing and Filter-Based Forwarding Overview of Load Balancing Configuring and Monitoring Load Balancing Overview of Filter-Based Forwarding Configuring and Monitoring Filter-Based Forwarding Lab 2: Load Balancing and Filter-Based Forwarding

Chapter 4: Open Shortest Path First Overview of OSPF Adjacency Formation and the Designated Router Election OSPF Scalability Configuring and Monitoring OSPF Basic OSPF Troubleshooting Lab 3: Open Shortest Path First

Day 2

Chapter 5: Border Gateway Protocol Overview of BGP BGP Attributes IBGP Versus EBGP Configuring and Monitoring BGP Lab 4: Border Gateway Protocol

Chapter 6: IP Tunneling Overview of IP Tunneling GRE and IP-IP

Tunnels Implementing GRE and IP-IP Tunnels Lab 5: IP Tunneling

Chapter 7: High Availability Overview of High Availability Networks GR Graceful RE Switchover Nonstop Active Routing BFD VRRP Lab 6: High Availability

Appendix A: IPv6 Introduction to IPv6 Routing Protocol Configuration Examples Tunneling IPv6 over IPv4

Appendix B: IS-IS Overview of IS-IS Overview of IS-IS PDUs Adjacency Formation and DIS Election Configuring and Monitoring IS-IS Basic IS-IS Troubleshooting

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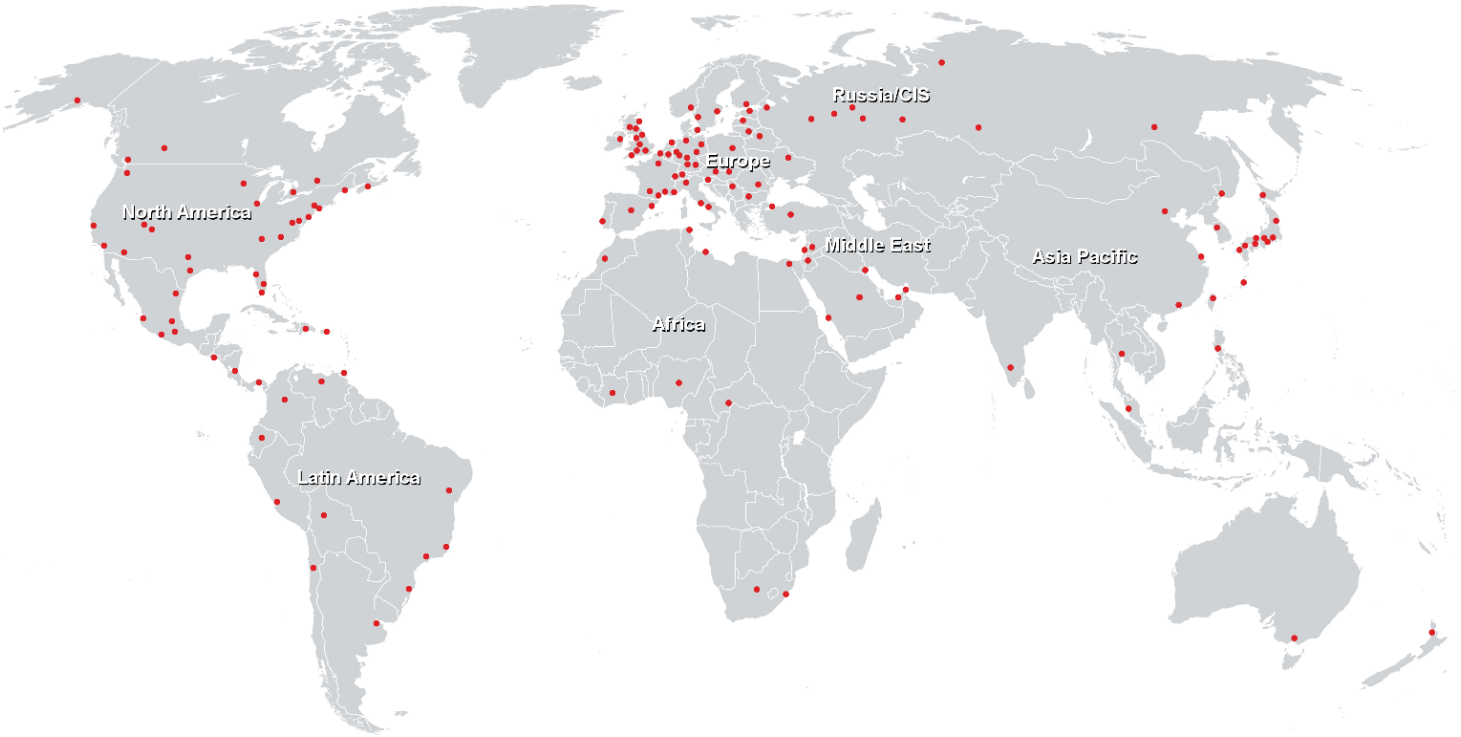

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