





Junos Intermediate Routing

Duración: 2 Días Código del Curso: JIR

Temario:

This two-day course 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 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 the Junos OS. This course is based on Junos OS Release 18.2R1.9.

Dirigido a:

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

Objetivos:

- 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

Prerequisitos:

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 course prior to attending this class.

IJOS - Introduction to the Junos Operating System

Siguientes cursos recomendados: JEX - Junos Enterprise Switching

Contenido:

Day 1 :	LAB 3: Open Shortest Path First	LAB 6: High Availability
1.COURSE INTRODUCTION	Day 2 :	Appendix A: IPv6 :
2 .Protocol-Independent Routing	5 .Border Gateway Protocol :	 Introduction to IPv6 Routing Protocol Configuration Examples Tunneling IPv6 over IPv4
• Static Routes	 Overview of BGP 	
• Aggregated Routes	• BGP Attributes	LAB 7 (Optional): IPv6
• Generated Routes	• IBGP Versus EBGP	
• Martian Addresses	• Configuring and Monitoring BGP	
• Routing Instances		Appendix B: IS-IS:
	LAB 4: Border Gateway Protocol	
LAB 1: Protocol-Independent Routing		• Overview of IS-IS
		• Overview of IS-IS PDUs
	6 .IP Tunneling :	• Adjacency Formation and DIS Election
3 .Load Balancing and Filter-Based Forwarding		• Configuring and Monitoring IS-IS
:	• Overview of IP Tunneling	• Basic IS-IS Troubleshooting
	• GRE and IP-IP Tunnels	
• Overview of Load Balancing	• Implementing GRE and IP-IP Tunnels	LAB 8 (Optional): IS-IS
• Configuring and Monitoring Load Balancing		
• Overview of Filter-Based Forwarding	LAB 5: IP Tunneling	
 Configuring and Monitoring Filter-Based Forwarding 		Appendix C: Routing Information Protocol :
	7 .High Availability :	• Introduction to RIP
LAB 2: Load Balancing and Filter-Based		• RIP Configuration Examples
Forwarding	 Overview of High Availability Networks Graceful Restart Graceful RE Switchover 	• Monitoring and Troubleshooting RIP
4 .Open Shortest Path First :	 Nonstop Active Routing BFD 	
• Overview of OSPF	• VRRP	
 Adjacency Formation and the Designated Router Election 		
• OSPF Scalability		
• Configuring and Monitoring OSPF		
• Basic OSPF Troubleshooting		

Más información:

Para más información o para reservar tu plaza llámanos al (34) 91 425 06 60

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