
Advanced Junos Enterprise Routing Troubleshooting

Duración: 1 Día Código del Curso: AJERT

Temario:

This one-day course is designed to provide students with information about troubleshooting SRX Series hardware, the Junos operating system, and more obscure problems like packet loss and latency, interior gateway protocols, BGP, routing policy, multicast, and class of service. Students will gain experience in monitoring and troubleshooting these topics through demonstration as well as hands-on labs. The course exposes students to common troubleshooting commands and tools used to troubleshoot various intermediate to advanced issues. 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 12.1R5.5.

Dirigido a:

The primary audiences for this course are the following:

Objetivos:

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| ■ Determine the right questions to ask when troubleshooting an issue. | ■ Define a problem report (PR) and identify relevant information contained in a PR. |
| ■ Identify general outputs and the type of information found in outputs. | ■ Find relevant topics within the Juniper Networks Knowledge Base. |
| ■ Simplify a complex network and recreate an issue in the lab environment. | ■ List common commands used to troubleshoot and verify various interior gateway protocol (IGP) routing protocols. |
| ■ Describe packet loss in a network. | ■ Isolate different IGP issues. |
| ■ List the general chassis components. | ■ List common commands used to troubleshoot and verify BGP. |
| ■ Identify different methods for troubleshooting major chassis components. | ■ Isolate different issues with BGP communication and configuration. |
| ■ Troubleshoot redundant Routing Engine and Control Board communication. | ■ Isolate problems relating routing policy structure and configuration. |
| ■ Isolate problems with interfaces. | ■ Identify common commands for troubleshooting routing policy. |
| ■ Troubleshoot IPv4 interfaces. | ■ Verify and troubleshoot multicast. |
| ■ Identify an issue with software and the process of events to recreate the issue. | ■ Verify and troubleshoot class of service. |
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Prerequisites:

The following are the prerequisites for this course:

- Junos Troubleshooting in the NOC (JTNOG); and
 - Advanced Junos Enterprise Routing (AJER).
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Contenido:

Day 1

Chapter 1: Course Introduction

Chapter 2: Advanced Troubleshooting Methodology

- The Troubleshooting Process
- Gathering Relevant Details
- Reproducing a Problem in a Lab Environment
- Root Cause Analysis
- Troubleshooting Latency
- Troubleshooting Packet Loss Lab

Chapter 3: Hardware and Interface Troubleshooting

- General Chassis Components
- Redundancy
- Hardware Case Study
- Interface Overview
- Layer 3
- Interface Case Study
- Troubleshooting Interfaces Lab

Chapter 4: Troubleshooting Software Issues

- Identifying the Problem
- PR Searches
- KB Searches
- Identifying Workarounds and Permanent Fixes
- Case Studies

Chapter 5: IGP Troubleshooting

- OSPF Troubleshooting
- IS-IS Troubleshooting
- Troubleshooting IGPs Lab

Chapter 6: BGP Troubleshooting

- BGP Overview
- BGP Troubleshooting
- BGP Case Studies
- Troubleshooting BGP Lab

Chapter 7: Policy Troubleshooting

- Routing Policy Overview
- Routing Policy Structure
- Using Regex
- Routing Policy Troubleshooting
- Case Studies
- Troubleshooting Routing Policy Lab

Chapter 8: Troubleshooting Advanced Features

- Multicast Troubleshooting
- Multicast Case Study
- CoS Troubleshooting
- CoS Case Study
- Troubleshooting Advanced Features Lab
- Appendix A: Additional IGP Troubleshooting

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- IGP Troubleshooting Case Studies
- IGP Support for IPv6
- Appendix B: Additional Case Studies
- BGP Case Study
- Policy Case Study

Más información:

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

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