
Advanced Junos Enterprise Routing Troubleshooting

Duración: 1 Días **Código del Curso: AJERT** **Método de Impartición: Curso Cerrado (In-Company)**

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.

Curso Cerrado (In-Company)

Debido a que nuestra formación es modular, nuestros responsables de formación e instructores pueden trabajar con usted y su equipo para detectar las necesidades formativas y adaptar un temario de forma rápida y rentable. Durante una formación cerrada, usted recibirá una formación de expertos en un curriculum adaptado a sus necesidades.

Dirigido a:

The primary audiences for this course are the following:

Objetivos:

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

The following are the prerequisites for this course:

- Junos Troubleshooting in the NOC (JTNOG); and
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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 Packet Loss
- 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 IGP 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

RIP

- 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

info.cursos@globalknowledge.es

www.globalknowledge.com/es-es/

Global Knowledge Network Spain, C/ Retama 7, 6ª planta, 28045 Madrid