



Advanced Junos Enterprise Routing Troubleshooting

Duration: 1 Days **Course Code: AJERT** **Delivery Method: Virtual Learning**

Overview:

This one-day course is designed to provide students with information about troubleshooting interior gateway protocols, BGP, routing policy, multicast, and class of service (CoS). 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 for SRX Series devices, and Release 12.3R1.7 for EX Series switches.

Virtual Learning

This interactive training can be taken from any location, your office or home and is delivered by a trainer. This training does not have any delegates in the class with the instructor, since all delegates are virtually connected. Virtual delegates do not travel to this course, Global Knowledge will send you all the information needed before the start of the course and you can test the logins.

Target Audience:

The primary audience for this course is the following: Individuals responsible for configuring and monitoring devices running the Junos OS.

Objectives:

- After successfully completing this course, you should be able to:
 - 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 to routing policy structure and configuration.
 - Identify common commands for troubleshooting routing policy.
 - Verify and troubleshoot multicast.
 - Verify and troubleshoot class of service.
 - List common commands that are used to troubleshoot and verify the RIP routing protocol.
 - Explain IGP support for IPv6.
 - List the general chassis components.
 - Identify different methods for troubleshooting major chassis components.
 - Troubleshoot redundant Routing Engine and Control Board communication.
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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).

Testing and Certification

This course is recommended training for the Juniper Networks Certified Support Professional, Enterprise Routing and Switching (JNCSP-ENT). The current exam is JN0-694.

Follow-on-Courses:

There are no direct follow on courses. Delegates who successfully complete this course may wish to consider JNCIE-ENT Bootcamp.

Content:

Chapter 1: Course Introduction

Chapter 2: IGP Troubleshooting

- OSPF Troubleshooting
- IS-IS Troubleshooting
- Troubleshooting IGP Lab

Chapter 3: BGP Troubleshooting

- BGP Overview
- BGP Troubleshooting
- BGP Case Study
- Troubleshooting BGP Lab

Chapter 4: Policy Troubleshooting

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

Chapter 5: Troubleshooting Advanced Features

- Multicast Troubleshooting
- Multicast Case Study
- CoS Troubleshooting
- CoS Case Study
- Troubleshooting Advanced Features Lab

Appendix A: Additional IGP Troubleshooting

- RIP Troubleshooting
- IGP Troubleshooting Case Studies
- IGP Support for IPv6

Appendix B: Additional Case Studies

- BGP Case Study
- Policy Case Study

Appendix C: SRX Hardware Troubleshooting

- General Chassis Components
- Redundancy
- Hardware Case Study

Further Information:

For More information, or to book your course, please call us on Head Office 01189 123456 / Northern Office 0113 242 5931

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