Advanced Junos Troubleshooting

Category: Networking & Security | **Vendor:** Juniper

Duration: 24.00 hours (3 days) **19.5 CPD Hours** **Rating:** ⭐ 4.6 (5,878 reviews)

Course Information

Delivery Format: Instructor Led - Online

Course Overview

This three-day course provides students with the knowledge to troubleshoot switching, routing, and security features. This course builds off the (!) and Junos Troubleshooting (JT) courses and helps network engineers further their network troubleshooting capabilities. Key topics include troubleshooting dynamic routing protocols such as OSPF, IS-IS, BGP, switching protocols, Ethernet VPN–Virtual Extensible LAN (EVPN-VXLAN) network, MPLS, multicast, class of service (CoS), stateful firewall features, IPsec VPNs (site-to-site and remote access), chassis clusters, next-generation firewall features, and vSRX.

The course is based on Junos OS Release 23.1R1.

About This Course

- Introduction
- Troubleshooting OSPF
- Troubleshooting IS-IS
- Troubleshooting BGP
- Troubleshooting Routing Loops and Route Oscillations
- Troubleshooting Switching Protocols
- Troubleshooting EVPN-VXLAN network
- Troubleshooting MPLS
- Troubleshooting Multicast
- Troubleshooting CoS
- Troubleshooting Stateful Firewall Security
- Troubleshooting IPsec VPNs
- Troubleshooting Chassis Clusters
- Troubleshooting Next-Generation Firewall Features
- Troubleshooting vSRX

Who Should Attend

This course benefits individuals responsible for troubleshooting Juniper devices running Junos OS, which includes network operators, engineers, administrators, support personnel, and reseller support personnel.

Prerequisites & Entry Requirements

General Prerequisites:

Completion of the Junos Troubleshooting (JT) course, or equivalent experience

Learning Outcomes

Upon successful completion of this course, participants will be able to:

After successfully completing this course, you should be able to:

- Troubleshoot problems with OSPF routing protocol.
- Troubleshoot problems with IS-IS routing protocol.
- Troubleshoot problems with BGP routing protocol.
- Troubleshoot routing loops and route oscillations.
- Troubleshoot problems with switching protocols.
- Troubleshoot an EVPN-VXLAN setup.
- Demonstrate the ability to troubleshoot MPLS.
- Demonstrate the ability to troubleshoot native multicast.
- Demonstrate the ability to troubleshoot CoS.
- Troubleshoot stateful firewall inspection.
- Troubleshoot site-to-site IPsec VPNs.
- Troubleshoot remote access VPNs using Juniper Secure Connect.
- Troubleshoot chassis clusters.
- Troubleshoot next-generation firewall features.
- Troubleshoot vSRX.

Detailed Course Outline

Introduction

Troubleshooting OSPF

- Troubleshoot OSPF adjacencies
- Troubleshoot OSPF inconsistencies

Lab 1: Troubleshooting OSPF

Troubleshooting IS-IS

- Troubleshoot IS-IS adjacencies

Lab 2: Troubleshooting IS-IS

Troubleshooting BGP

- Troubleshoot BGP neighbors

- Troubleshoot BGP route advertisements

Lab 3: Troubleshooting BGP

Troubleshooting Routing Loops and Route Oscillations

- Troubleshoot routing loops and route oscillations

Lab 4: Troubleshooting Routing Loops and Route Oscillations

Troubleshooting Switching Protocols

- Implement monitoring and troubleshoot Layer 2 networks

Lab 5: Troubleshooting Switching Protocols

Troubleshooting EVPN-VXLAN network

- Verify EVPN-VXLAN related configuration and run time issues

Lab 6: Troubleshooting EVPN-VXLAN

Troubleshooting MPLS

- Troubleshoot RSVP and LDP LSPs

Lab 7: Troubleshooting MPLS

Troubleshooting Multicast

- Troubleshoot PIM sparse mode operation

Lab 8: Troubleshooting Multicast

Troubleshooting CoS

- Perform class of service troubleshooting

Lab 9: Troubleshooting CoS

Troubleshooting Stateful Firewall Security

- Troubleshoot traffic flows through a stateful firewall

Lab 10: Troubleshooting Stateful Firewall Security

Troubleshooting IPsec VPNs

- Describe general troubleshooting for IPsec VPNs
- Describe how to troubleshoot IKE Phase 1 and Phase 2
- Configure and analyze logging for IPsec VPNs
- Examine IPsec troubleshooting case studies

Lab 11: Troubleshooting IPsec VPNs

Troubleshooting Chassis Clusters

- Troubleshoot chassis clusters

- Review chassis cluster case studies

Lab 12: Troubleshooting Chassis Clusters

Troubleshooting Next-Generation Firewall Features

- Troubleshoot AppSecure services

Lab 13: Troubleshooting Next-Generation Firewall Features

Troubleshooting vSRX

- Describe steps used to troubleshoot vSRX deployments

Lab 14: Troubleshooting vSRX

Skills You Will Learn:

After successfully completing this course, you should be able to:

- Troubleshoot problems with OSPF routing protocol.
- Troubleshoot problems with IS-IS routing protocol.
- Troubleshoot problems with BGP routing protocol.
- Troubleshoot routing loops and route oscillations.
- Troubleshoot problems with switching protocols.
- Troubleshoot an EVPN-VXLAN setup.
- Demonstrate the ability to troubleshoot MPLS.
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- Demonstrate the ability to troubleshoot CoS.
- Troubleshoot stateful firewall inspection.
- Troubleshoot site-to-site IPsec VPNs.
- Troubleshoot remote access VPNs using Juniper Secure Connect.
- Troubleshoot chassis clusters.
- Troubleshoot next-generation firewall features.
- Troubleshoot vSRX.

Frequently Asked Questions

Q: What delivery options are available for Advanced Junos Troubleshooting?

We offer multiple delivery formats:

- Live Instructor-Led Classroom Online (Virtual/Live Online)
- Traditional Instructor-Led Classroom Training (ILT)
- On-site delivery at your offices anywhere in United Kingdom
- Private dedicated courses customized for your team

Q: How many CPD hours does this course provide?

The 3-day Advanced Junos Troubleshooting course provides up to 19.5 CPD hours of structured learning. CPD certificates can be provided upon request.

Q: What is the duration of the Advanced Junos Troubleshooting training?

The training takes place over 3 day(s), with each day lasting approximately 24.00 hours including breaks for lunch and refreshments.

Q: Do you provide corporate training for Advanced Junos Troubleshooting?

Yes, we provide corporate training, dedicated training, and closed classes for Advanced Junos Troubleshooting. Training can take place anywhere in United Kingdom including London, Manchester, Birmingham, Edinburgh, or live online allowing teams from across United Kingdom or internationally to attend.

Q: What related terms do people search for?

Popular related searches include: Advanced Junos Troubleshooting, Enterprise Routing & Switching, AJT

Q: Why choose Nexus Human for Advanced Junos Troubleshooting?

Nexus Human is recognized as one of the leading training providers. Our trainers have won multiple awards including:

- Small Firms Best Trainer Award
- National Training Partner of the Year (Ireland) - Multiple Years
- Global Top 30 Instructor Awards (2012, 2019, 2021)
- Tech Excellence Award Nominations
- Learning Performance Institute (LPI) External Training Provider Sponsor 2024

Q: Are there any discount codes available?

Yes! Use discount code **PENPAL5** when booking your Advanced Junos Troubleshooting training. Please note that only one discount code can be used per booking and cannot be combined with other special offers.

Nexus Human

Professional Training & Development

Email: info@nexushuman.com

Website: www.nexushuman.com

Phone: +353 1 889 8700 (Ireland) | +44 20 8142 8961 (UK)

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