



Advanced Junos Troubleshooting (AJT)

Duration: 3 Days Course Code: JUN AJT Delivery Method: Virtual Learning

Overview:

This three-day course provides students with the knowledge to troubleshoot switching, routing, and security features.

This course builds off the Juniper Technical Support Fundamentals (JTSF) 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.

This is an advanced level course.

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:

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

Objectives:

- 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.

Prerequisites:

Completion of the Junos Troubleshooting course, or equivalent experience.

Follow-on-Courses:

Delegates will receive e-kit courseware.

Content:

Day 1	Implement monitoring and troubleshoot Layer 2 networks	Troubleshooting IPsec VPNs
Introduction	Lab 5: Troubleshooting Switching Protocols	Describe general troubleshooting for IPsec VPNs
Troubleshooting OSPF	Troubleshooting EVPN-VXLAN network	Describe how to troubleshoot IKE Phase 1 and Phase 2
Troubleshoot OSPF adjacencies	Verify EVPN-VXLAN related configuration and run time issues	Configure and analyze logging for IPsec
Troubleshoot OSPF inconsistencies Leb 1. Troubleshooting OSPF	Lab 6: Troubleshooting EVPN-VXLAN	VPNs
Lab 1: Troubleshooting OSPF	Troubleshooting MPLS	Examine IPsec troubleshooting case studies Leb 11: Troubleshooting IPsec V/DNs
Troubleshooting IS-IS • Troubleshoot IS-IS adjacencies	Troubleshoot RSVP and LDP LSPs	Lab 11: Troubleshooting IPsec VPNs Troubleshooting Chassis Clusters
Lab 2: Troubleshooting IS-IS	Lab 7: Troubleshooting MPLS	Troubleshoot chassis clusters
Troubleshooting BGP	Troubleshooting Multicast	Review chassis cluster case studies
Troubleshoot BGP neighbors	Troubleshoot PIM sparse mode operation	Lab 12: Troubleshooting Chassis Clusters
Troubleshoot BGP route advertisements	Lab 8: Troubleshooting Multicast	Troubleshooting Next-Generation Firewall
Lab 3: Troubleshooting BGP	Troubleshooting CoS	Troubleshoot AppSecure services
Troubleshooting Routing Loops and Route Oscillations • Troubleshoot routing loops and route	Perform class of service troubleshooting	Lab 13: Troubleshooting Next-Generation
	Lab 9: Troubleshooting CoS	Firewall Features
oscillations	Day 3	Troubleshooting vSRX
Lab 4: Troubleshooting Routing Loops and Route Oscillations	Troubleshooting Stateful Firewall Security	Describe steps used to troubleshoot vSRX deployments
Day 2	Troubleshoot traffic flows through a stateful firewall	Lab 14: Troubleshooting vSRX
Troubleshooting Switching Protocols	Lab 10: Troubleshooting Stateful Firewall Security	

Further Information:

For More information, or to book your course, please call us on Head Office 01189 123456 / Northern Office 0113 242 5931 info@globalknowledge.co.uk

www.globalknowledge.com/en-gb/

Global Knowledge, Mulberry Business Park, Fishponds Road, Wokingham Berkshire RG41 2GY UK