EMENTA DO CURSO

Junos Troubleshooting

Código: **EDU-JUN-JTSH** Categoria: **Juniper**

InLearn

PÚBLICO

This course benefits people involved in troubleshooting Juniper devices running Junos OS, including network operators, engineers, administrators,
support personnel, and reseller support personnel.

PRÉ-REQUISITOS

- Basic networking knowledge and an understanding of the OSI reference model and the TCP/IP protocol suite.
- General understanding of Junos OS.
- Completion of the Introduction to the Junos Operating System course.

VISÃO

This two-day, intermediate-level, instructor-led course equips network professionals with the skills needed to effectively troubleshoot and monitor devices running Junos OS. Through a combination of theoretical instruction and hands-on labs, participants will explore Junos architecture, control and data plane operations, network services, high availability features, and performance monitoring tools. The course is based on Junos OS Release 25.2R1. Students will get hands-on practice using Juniper Networks® vMX Virtual Router (vMX), Juniper Networks® vSRX Virtual Firewall (vSRX), and vEX devices in the lab.

CONTEÚDO

DAY 1
Module 01: Understanding Junos Product Families
• Describe the architecture of Junos OS
• Describe the functions and components of the Routing Engine and the Packet Forwarding Engine
• Describe the Junos product families
Lab 01: Getting Familiar with the Lab Topology

Module 02: Monitoring Junos Hardware and Software
• Describe FRUs
• Describe the key commands used to monitor device chassis
• Describe the key commands and features used to monitor storage and memory issues
• Describe the key commands and features used to monitor software installations
Lab 02: Monitoring Junos Hardware and Software

Module 03: Using Junos Troubleshooting Tools
• Troubleshoot devices using the basic Junos commands and utilities
• Explain JTAC recommendations for current best practices that facilitate troubleshooting
Lab 03: Using Monitoring Tools and Establishing a Baseline

Module 04: Monitoring and Troubleshooting the Control Plane
• Describe the control plane
• Use Junos CLI to manage system and user processes
• Use the Junos CLI to troubleshoot routing tables and protocols
• Describe the Junos operational mode commands used to manage bridging
• Describe the Junos operational mode commands used to troubleshoot ARP
Lab 04: Monitoring and Troubleshooting the Control Plane

Module 05: Protecting the Control Plane
• Describe the need for protecting the control plane
• Explain and configure the DDoS protection feature
• Outline the use of firewall filters to protect the control plane
Lab 05: Protecting the Control Plane

DAY 2
Module 06: Monitoring and Troubleshooting the Data Plane
• Describe physical and logical interface properties
• Perform general interface troubleshooting
• Troubleshoot Ethernet interfaces
Lab 06: Monitoring and Troubleshooting Ethernet Interfaces

Module 07: Isolating and Troubleshooting Data Plane Issues
• Define a data plane problem
• Describe data plane components
• Use the Junos CLI to manage forwarding table entries
• Use the Junos CLI to monitor load balancing
• Troubleshoot firewall filter and policer issues
Lab 07: Isolating and Troubleshooting PFE Issues

Module 08: Troubleshooting Network Services
• Discuss DNS, DHCP, NTP, SSH, SNMP, and telemetry issues
• Explain authentication issues
• Discuss MACsec issues
• Discuss LLDP issues
Lab 08: Troubleshooting Network Services

Module 09: Troubleshooting Link Aggregation, BFD, and Graceful Restart
- Discuss link aggregation issues
- Discuss BFD issues
- Explain graceful restart

Module 10: Troubleshooting GRES, NSR, NSB, and VRRP
- Explain graceful Routing Engine switchover
- Discuss NSR issues
- Discuss NSB issues
- Discuss VRRP issues

Module 11: Network Monitoring Using SNMP, Remote Monitoring, and Flow Monitoring
- Explain how to configure and monitor SNMP
- Explain how to configure remote monitoring
- Describe how to use flow monitoring

Lab 09: Monitoring the Network

Module 12: Network Monitoring Using Junos Telemetry and Juniper Support Insights
- Describe how to use the Junos telemetry interface
- Explain how to use Juniper Support Insights to capture Junos device insights and health

Próximas turmas

17/09/2026

Carga horária	**16 horas**
Modalidade	**Online**
Horário	**17/9 (qui) 17h às 20h, 18/9 (sex) 16h às 21h, 24/9 (qui) 17h às 20h, e, 25/9 (sex) 16h às 21h**

Confirmado

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