

PÚBLICO

Individuals responsible for configuring, managing, and monitoring devices running Junos OS.

PRÉ-REQUISITOS

- Basic networking knowledge and an understanding of the Open Systems Interconnection (OSI) reference model and the TCP/IP protocol suite
- Attend the Introduction to the Junos Operating System course prior to attending this class

VISÃO

This two-day, intermediate-level course is designed to provide students with intermediate switching knowledge and configuration examples. The course includes an overview of switching concepts such as LANs, Layer 2 address learning, bridging, VLANs, provider bridging, VLAN translation, spanning-tree protocols, and Ethernet Operation, Administration, and Maintenance (OAM). This course also covers Junos operating system (OS) specific implementations of integrated routing and bridging (IRB) interfaces, routing instances, virtual switches, load balancing, and port mirroring. Furthermore, this course covers the basics of Multiple VLAN Registration Protocol (MVRP), link aggregation groups (LAGs), and multichassis LAG (MC-LAG). This course is based on Junos OS Release 22.1R1.10.

DAY 1**Module 1 Course Introduction**

- Cover course objectives
- Review course contents
- Identify additional resources
- Discuss Juniper certifications

Module 2 Ethernet Switching and Layer 2

- Discuss the functions of an Ethernet LAN
- Explain learning and forwarding in a bridging environment
- Implement Layer 2 address learning and forwarding
- Implement Layer 2 firewall filters

Module 3 Virtual LANs and IRBs

- Implement VLAN tagging
- Automate VLAN administration through MVRP
- Configure IRBs

Lab 1: Ethernet Switching and VLANs**Module 4 Virtual Switches**

- Describe the use of a routing instance
- Describe the functions of a virtual router and a virtual switch
- Configure a virtual switch
- Interconnect routing instances
- Describe the use of logical systems

Lab 2: Virtual Switches**Module 5 Provider Bridging**

- Describe the different IEEE VLAN stacking models
- Describe the components of provider bridging
- Configure and monitor provider bridging

Lab 3: Provider Bridging**Module 6 Spanning-Tree Protocols**

- Explain the purpose of spanning-tree protocols
- Describe the operation of STP, RSTP, MSTP and VSTP

Module 7 Configuring Spanning-Tree

- Configure and monitor STP, RSTP, MSTP, and VSTP
- Explain how BPDU, loop, and root protection works

Lab 4: MSTP**DAY 2****Module 8 Ethernet OAM**

- Explain the features of Ethernet OAM
- Describe the operation of link fault management (LFM)
- Describe the operation of connectivity fault management (CFM)

Module 9 Configuring OAM

- Examine and implement LFM settings
- Examine and implement CFM settings

Lab 5: Ethernet OAM – LFM and CFM**Module 10 ERP and LAG**

- Describe and configure Ethernet ring protection (ERP)
 - Describe and configure a link aggregation group (LAG)
- Lab 6: High Availability and Network Optimization – ERP and LAG

Module 11 High Availability and Network Optimization

- Explain MC-LAGs
- Configure and monitor an MC-LAG
- Explain the purpose of an MX virtual chassis

Lab 7: MC-LAG

Module 12 Troubleshooting and Monitoring

- Describe basic troubleshooting methods
- List common issues that disrupt networks
- Identify tools used in network troubleshooting
- Use available tools to resolve network issues

Lab 8: Troubleshooting and Monitoring

Próximas turmas

11/11/2026

Carga horária 16 horas

Modalidade Online

Horário 09:00 às 18:00

Prevista

Fale com a InLearn

Acompanhe nossos canais e fale com a nossa equipe para saber mais sobre cursos, próximas turmas e soluções de capacitação.

WhatsApp: +55 (11) 92058-5393

Site · **LinkedIn** · **Instagram** · **Facebook** · **YouTube**

www.inlearn.com.br

Avenida Ipanema, 165, Dezoito do Forte Empresarial/Alphaville, Barueri
- SP, 06472-002

Documento gerado automaticamente a partir do
catálogo InLearn.