



TRAINING OFFERING

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Deploying and Managing Juniper SD-WAN with Session Smart Routers (JSSS)

| CODE: | LENGTH: | PRICE: |
|----------|-------------------|-----------|
| JUN_JSSS | 32 Hours (4 days) | £3,195.00 |

Description

This four-day course teaches network engineers and architects how to configure and manage the Juniper® Session Smart™ Router. Juniper Session Smart SD-WAN teaches students how to configure and use a Session Smart Router and a Juniper® Session Smart™ Conductor. It starts with an introduction to the product followed by an introduction to the programmable CLI, GUI, and Session Smart Data Model. After that, students will use the GUI to deploy and configure their Session Smart Routers. Students will build multiple paths between three Session Smart Routers with one Session Smart Conductor. Students will then learn the tools they can use within their Session Smart Conductors and Session Smart Routers to monitor and maintain their Session Smart deployments. Students working in the federal space will learn how Session Smart Routers work in classified environments and will learn how to manage their deployments. This course is based on Release 6.2.

RELATED JUNIPER PRODUCTS

COURSE LEVEL • Session Smart Routers
Intermediate

Objectives

- Install a Session Smart Router and a Session Smart Conductor.
- Access Session Smart Routers with both the PCLI and the GUI.
- Describe how traffic flows through a Session Smart Router.
- Use the PCLI and GUI to operate and maintain Session Smart Routers.
- Route traffic to a data center using Session Smart Routers.
- Configure a high availability (HA) pair of Session Smart Routers.
- Configure multiple paths between Session Smart Routers.
- Configure Session Smart Routers to interoperate with BGP peers.
- Identify the proper commands and tools to troubleshoot Session Smart Routers.
- Identify where to go to find more information on APIs.
- Identify where to go for further resources.
- Identify the benefits of WAN Assurance.
- Identify the benefits of Session Smart Router for Classified Networks.

Audience

Individuals responsible for implementing, managing, and maintaining Session Smart Routing

Prerequisites

- Basic TCP/IP skills.
- Familiarity with Linux

Programme

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|---|--|
| 1 Introduction to Session Smart Routing | 2 Interfaces for Managing your Session Smart Routers |
| • Describe SD-WAN and the Juniper Session Smart Router | • Describe and navigate the Session Smart PCLI |
| DAY 1 • Review Smart Packet Walkthrough | • Describe and navigate the Session Smart GUI |
| 3 Global and Local Data on the Session Smart Router | • Describe and navigate Session Smart APIs |
| • Describe elements of the Session Smart Data Model | Lab 1: Interfaces for Managing Your Session Smart Routers |
| • Describe the difference between Global and Local Data | |
| • Describe the elements of Global Data in the Session Smart Data Model | |
| • Describe the elements of Local Data in the Session Smart Data Model | |
| Lab 2: Configuring Global Data Elements | |
| 4 Interacting with the Platform | |
| • Describe the Session Smart Conductor | |
| • Describe the Mist-redirect ZTP installation process | |
| • Describe the Session Smart ISO | |
| • Describe the OTP installation process | |
| • Describe configuration and backups on the Session Smart Router | |
| • Describe upgrading the Session Smart Conductor and the Session Smart Router | |
| Lab 3: Interacting with the Platform | DAY 2 |
| 5 Session Smart Peering | |
| • Describe the Configuration Template | |
| • Describe Peers, BFD, Adjacencies, and Neighborhoods | |
| • Review the Session Smart Data Model | |
| Lab 4: Deploy a Branch Router and Configure Peering | |
| 6 Session Smart Routing | 7 Security Policies |
| • Describe forwarding information base, routing information base, and services information base | • Describe Security Policies |
| • Describe Service Routes | • Configure Security Policies |
| • Describe Ethernet over SVR | • Apply Security Policies |
| Lab 5: Routing | • Describe IDP Policies |
| 8 Multiple Paths Between Session Smart Routers | Lab 6: Security Policies |
| • Explain and configure service policies | |
| • Explain and configure load balancing | |
| • Explain and configure vectors | |
| Lab 7: Configuring Multiple Paths Between Session Smart Routers | DAY 3 |
| 9 Redundancy and High Availability on the Session Smart Router | |
| • Explain and configure VRRP | |
| • Explain and configure dual-node high availability | 10 Traditional Routing on the Session Smart Router |
| • Explain and configure dual-router high availability | • Describe routing instances, VRFs, and static routes |
| • Explain and configure link aggregation and LACP | • Explain and configure peering with a BGP neighbor |
| • Describe conductor high availability | • Explain and configure BGP over Secure Vector Routing |
| Lab 8: High Availability | Lab 9: Traditional Routing |
| 11 Troubleshooting in the Session Smart GUI | 12 Troubleshooting Packet Captures |
| • Describe notification interfaces | • Explain and implement packet captures on the Session Smart Router |
| • Describe investigative interfaces | • Explain and implement session captures on the Session Smart Router |
| Lab 10: Troubleshooting Using the GUI | DAY 4 Lab 11: Packet Capture |
| 13 Troubleshooting Session Smart Logs | 14 Troubleshooting Peer Paths |
| • Describe general log information | • Review elements of the Session Smart Data Model |
| • Describe troubleshooting using conductor logs | • Describe BFD and configure BFD settings |
| • Describe troubleshooting using router logs | • Describe troubleshooting BFD |
| Lab 12: Logs | Lab 13: Troubleshooting Peer Path |
| 15 Troubleshooting Salt Connectivity | 16 Application Troubleshooting |
| • Describe troubleshooting Salt connectivity in specific scenarios | • Describe troubleshooting steps, commands, and tables |
| • Describe troubleshooting Salt connectivity over in-band management | • Identify the tenant and the service |
| Lab 14: Troubleshooting Salt Connectivity | • Utilize routing tables |
| 17 Network Address Translation | • Utilize ping tools, capture tools, and logs |
| • Describe and configure Network Address Translation on the Session Smart Router | • Describe end-user testing and continued troubleshooting |
| 18 WAN Assurance | |
| • Describe the advantages of Mist AI | 19 Session Smart Router for Classified Networks |
| • Describe WAN Assurance | • Describe the key concepts and how SSRfC works |
| • Describe the Mist and Session Smart Router Data Models | • Describe how to perform installation and upgrades |
| • Describe Service Level Expectations | • Describe the Local Config Override mode |
| 20 Processes on the Session Smart Router | |
| • Describe the processes on the Session Smart Router | |

Follow on courses

RECOMMENDED NEXT COURSE:
Juniper SD-WAN with Mist AI

Test and Certification

RELATED CERTIFICATION:
JNCIS-ENT

Session Dates

| Date | Location | Time Zone | Language | Type | Guaranteed | PRICE |
|-------------|-----------------------------|-----------|----------|-----------------------|------------|-----------|
| 03 Dec 2024 | Virtual Training Class - TP | GMT | English | Instructor Led Online | | £3,195.00 |

Additional Information

[This training is also available as onsite training. Please contact us to find out more.](#)