Deploying and Managing Juniper SD-WAN with Session Smart Routers

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

Duration: 32.00 hours (4 days) **26.0 CPD Hours** **Rating:** ⭐ 4.6 (5,878 reviews)

Course Information

Delivery Format: Instructor Led - Online

Course Overview

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.

About This Course

- Introduction to Session Smart Routing
- Interfaces for Managing your Session Smart Routers
- Global and Local Data on the Session Smart Router
- Interacting with the Platform
- Session Smart Peering
- Session Smart Routing
- Security Policies
- Multiple Paths Between Session Smart Routers
- Redundancy and High Availability on the Session Smart Router
- Traditional Routing on the Session Smart Router
- Troubleshooting in the Session Smart GUI
- Troubleshooting Packet Captures
- Troubleshooting Session Smart Logs
- Troubleshooting Peer Paths
- Troubleshooting Salt Connectivity
- Application Troubleshooting
- Network Address Translation
- WAN Assurance
- Session Smart Router for Classified Networks
- Processes on the Session Smart Router

Who Should Attend

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

Prerequisites & Entry Requirements

General Prerequisites:

- Basic TCP/IP skills.
- Familiarity with Linux

Learning Outcomes

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

- 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.

Detailed Course Outline

Introduction to Session Smart Routing

- Describe SD-WAN and the Juniper Session Smart Router
- Review Smart Packet Walkthrough

Interfaces for Managing your Session Smart Routers

- Describe and navigate the Session Smart PCLI
- Describe and navigate the Session Smart GUI
- Describe and navigate Session Smart APIs

Lab 1: Interfaces for Managing Your Session Smart Routers

Global and Local Data on the Session Smart Router

- Describe elements of the Session Smart Data Model
- 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

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

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

Session Smart Routing

- Describe forwarding information base, routing information base, and services information base

- Describe Service Routes
- Describe Ethernet over SVR

Lab 5: Routing

Security Policies

- Describe Security Policies
- Configure Security Policies
- Apply Security Policies
- Describe IDP Policies

Lab 6: Security Policies

Multiple Paths Between Session Smart Routers

- Explain and configure service policies
- Explain and configure load balancing
- Explain and configure vectors

Lab 7: Configuring Multiple Paths Between Session Smart Routers

Redundancy and High Availability on the Session Smart Router

- Explain and configure VRRP
- Explain and configure dual-node high availability
- Explain and configure dual-router high availability
- Explain and configure link aggregation and LACP
- Describe conductor high availability

Lab 8: High Availability

Traditional Routing on the Session Smart Router

- Describe routing instances, VRFs, and static routes

- Explain and configure peering with a BGP neighbor

- Explain and configure BGP over Secure Vector Routing

Lab 9: Traditional Routing

Troubleshooting in the Session Smart GUI

- Describe notification interfaces

- Describe investigative interfaces

Lab 10: Troubleshooting Using the GUI

Troubleshooting Packet Captures

- Explain and implement packet captures on the Session Smart Router

- Explain and implement session captures on the Session Smart Router

Lab 11: Packet Capture

Troubleshooting Session Smart Logs

- Describe general log information

- Describe troubleshooting using conductor logs

- Describe troubleshooting using router logs

Lab 12: Logs

Troubleshooting Peer Paths

- Review elements of the Session Smart Data Model

- Describe BFD and configure BFD settings

- Describe troubleshooting BFD

Lab 13: Troubleshooting Peer Paths

Troubleshooting Salt Connectivity

- Describe troubleshooting Salt connectivity in specific scenarios
- Describe troubleshooting Salt connectivity over in-band management

Lab 14: Troubleshooting Salt Connectivity

Application Troubleshooting

- Describe troubleshooting steps, commands, and tables
- Identify the tenant and the service
- Utilize routing tables
- Utilize ping tools, capture tools, and logs
- Describe end-user testing and continued troubleshooting

Network Address Translation

- Describe and configure Network Address Translation on the Session Smart Router

WAN Assurance

- Describe the advantages of Mist AI
- Describe WAN Assurance
- Describe the Mist and Session Smart Router Data Models
- Describe Service Level Expectations

Session Smart Router for Classified Networks

- Describe the key concepts and how SSRfC works

- Describe how to perform installation and upgrades

- Describe the Local Config Override mode

Processes on the Session Smart Router

- Describe the processes on the Session Smart Router

Skills You Will Learn:

- 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.

Frequently Asked Questions

Q: What delivery options are available for Deploying and Managing Juniper SD-WAN with Session Smart Routers?

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 4-day Deploying and Managing Juniper SD-WAN with Session Smart Routers course provides up to 26.0 CPD hours of structured learning. CPD certificates can be provided upon request.

Q: What is the duration of the Deploying and Managing Juniper SD-WAN with Session Smart Routers training?

The training takes place over 4 day(s), with each day lasting approximately 32.00 hours including breaks for lunch and refreshments.

Q: Do you provide corporate training for Deploying and Managing Juniper SD-WAN with Session Smart Routers?

Yes, we provide corporate training, dedicated training, and closed classes for Deploying and Managing Juniper SD-WAN with Session Smart Routers. 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: Deploying and Managing Juniper SD-WAN with Session Smart Routers, Enterprise Routing & Switching, DMSDWSSR

Q: Why choose Nexus Human for Deploying and Managing Juniper SD-WAN with Session Smart Routers?

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 Deploying and Managing Juniper SD-WAN with Session Smart Routers training. Please note that only one discount code can be used per booking and cannot be combined with other special offers.

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