Enterprise Computing Solutions - Education Services

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.
COURSE LEVEL
Intermediate
RELATED JUNIPER PRODUCTS
• Session Smart Routers

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

DAY 1

1 Introduction to Session Smart Routing
• Describe SD-WAN and the Juniper Session Smart Router
• Review Smart Packet Walkthrough
2 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
3 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
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
• Describe forwarding information base, routing information base, and services information base
• Describe Service Routes
• Describe Ethernet over SVR
Lab 5: Routing
7 Security Policies
• Describe Security Policies
• Configure Security Policies
• Apply Security Policies
• Describe IDP Policies
Lab 6: Security Policies
8 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

DAY 3

9 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
10 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
11 Troubleshooting in the Session Smart GUI
• Describe notification interfaces
• Describe investigative interfaces
Lab 10: Troubleshooting Using the GUI

DAY 4

12 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
13 Troubleshooting Session Smart Logs
• Describe general log information
• Describe troubleshooting using conductor logs
• Describe troubleshooting using router logs
Lab 12: Logs
14 Troubleshooting Peer Paths
• Review elements of the Session Smart Data Model
• Describe BFD and configure BFD settings
• Describe troubleshooting BFD
Lab 13: Troubleshooting Peer Path
15 Troubleshooting Salt Connectivity
• Describe troubleshooting Salt connectivity in specific scenarios
• Describe troubleshooting Salt connectivity over in-band management
Lab 14: Troubleshooting Salt Connectivity
16 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
17 Network Address Translation
• Describe and configure Network Address Translation on the Session Smart Router
18 WAN Assurance
• Describe the advantages of Mist AI
• Describe WAN Assurance
• Describe the Mist and Session Smart Router Data Models
• Describe Service Level Expectations
19 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
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
08 Dec 2026	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.