Juniper Session Smart SD-WAN

Category: Cloud Platforms | **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 is designed to teach network engineers and architects how to configure, manage, and troubleshoot 128T devices. Juniper Session Smart SD-WAN will teach students how to configure and use a 128T router and conductor. It starts with an introduction to 128 Technology and introduces the PCLI and GUI. Students use the GUI to deploy and configure their 128Ts. Students start from servers with just CentOS installed to a fully deployed network with multiple paths and three 128T routers and one 128T conductor. Students will then learn how to enable and configure advanced features on their 128Ts. These are features that are not necessary for a 128T deployment, but when activated, can be very powerful. Students will then explore the tools they can use within their 128T conductors and routers to monitor and troubleshoot potential issues. Students will learn useful commands and options in the GUI, testing the student’s ability to troubleshoot real-life 128T issues.

About This Course

Day 1

Module 1: Course Introduction

Module 2: 128 Technology

- Introduction to 128 Technology
- Review of the 128T Data Model

Module 3: Intro to the PCLI

- Navigating the 128T with the PCLI
- Lab : PCLI

Module 4: Intro to the GUI

- Navigating the 128T with the GUI
- Lab : GUI

Module 5: Backups

- Types of Configuration (Candidate vs. Running)
- Validate and Commit
- Exporting and Importing Configurations
- Lab : Backups

Module 6: Conductor

- Introduction to the Conductor
- Install Conductor using the 128T Installer

- Authority
- Services
- Tenants

Day 2

Module 7: Data Center Router

- Deploy a Data Center Router using Zero Touch Provisioning (ZTP)
- Router
- Node
- Device Interface
- Network Interface
- Lab: Data Center Router

Module 8: Branch Router

- Deploy a Branch Router using Zero Touch Provisioning (ZTP)
- Peer
- Adjacency
- Neighborhood
- Lab: Branch Router

Module 9: Routing

- Service Routes
- Lab: Routing

Module 10: Security Policies

- Security Policies
- Lab: Security Policies

Module 11: Upgrades

- Upgrades

Day 3

Module 12: Multiple WAN

- Service Policies
- Vectors
- Configure and Apply Multiple Paths from Branch to Data Center
- Lab : Multiple WAN

Module 13: High Availability

- Theory of HA
- Dual-Node HA
- Redundancy Groups
- Lab : High Availability

Module 14: Traditional Routing

- BGP
- BGP over SVR
- Appendix: Route Filters and Policies
- Lab : Traditional Routing

Day 4

Module 15: Troubleshooting Tools

- Alarms and Events
- SNMP
- API
- Monitoring Agent
- Troubleshooting using the PCLI

- Troubleshooting using the GUI
- Packet Captures
- Logs and Architectural Design
- Lab : Troubleshooting
Appendix A: Additional Resources

Appendix B: NAT

- Source and Destination NAT
- NAT Traversal
Appendix C: Load Balancing

- Load Balancing using the Hunt Strategy
- Load Balancing using the Proportional Strategy
- Service Route Policies
Appendix D: Traffic Engineering

- Session Type
- Service Policy
- Service Class
- Traffic Profiles
- DSCP Maps
Appendix E: App Classification

- Classifying the Applications That Endpoints are Accessing on Your Network
Appendix F: Host Services

- Service Chaining
- Plugins
Appendix G: Application Troubleshooting

Who Should Attend

This course benefits individuals who want to implement 128Ts.

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:

After successfully completing this course, you should be able to:

- Install a 128T Router and Conductor.
- Access 128Ts with both the PCLI and the GUI.
- Describe how traffic flows through a 128T.
- Use the PCLI and GUI to operate and maintain their 128Ts.
- Route traffic to a data center using 128Ts.
- Configure an HA pair of routers.
- Configure 128T router to interoperate with BGP peers.
- Learn how the 128T can perform traffic engineering.
- Know the useful commands and tools to troubleshoot 128Ts.
- Know where to go to find more information on APIs.
- Know where to go for further resources.

Skills You Will Learn:

After successfully completing this course, you should be able to:

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Frequently Asked Questions

Q: What delivery options are available for Juniper Session Smart SD-WAN?

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 Juniper Session Smart SD-WAN 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 Juniper Session Smart SD-WAN 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 Juniper Session Smart SD-WAN?

Yes, we provide corporate training, dedicated training, and closed classes for Juniper Session Smart SD-WAN. 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: Juniper Session Smart SD-WAN, Cloud, JSSS

Q: Why choose Nexus Human for Juniper Session Smart SD-WAN?

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 Juniper Session Smart SD-WAN 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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