JNCIE-SP Certification Self-Study Bundle (JNCIE-SP)

Revision 25A

Course overview

Juniper Networks' JNCIE-SP Certification Self-Study Bundle is a hands-on guide to validate your skills needed to pass the official JNCIE-SP lab exam. The guide is based on the official JNCIE-SP exam blueprint. Each chapter covers several technologies with expert-level configuration tasks and detailed answers. In this workbook you will find several technology introductions and theoretical knowledge about the JNCIE-SP lab exam blueprint topics. However, do not expect a full explanation about OSPF, IS-IS, BGP MPLS, and other advanced VPN services, since there are other resources available for prerequisite knowledge.
The guide contains two 8-hour practice exams to give you the same experience as in the real JNCIE-SP exam. This guide is targeted at JNCIP-SP certified engineers who are studying for the expert-level certification and need extra help preparing for the exam. With the purchase of this self-study bundle, you will be provided with a secured PDF version of the guide with six lab sessions that are each eight hours in duration to practice the exercises at your own pace.

Course level

JNCIE-SP Certification Self-Study Bundle is an advanced-level course.

Audience

This bundle benefits individuals who have already honed their skills on Service Provider technologies and could use some practice and tips in preparation for the JNCIE-SP exam.

Prerequisites

Students should have passed the Juniper Networks Certified Internet Professional—Service Provider (JNCIP-SP) written exam or achieved an equal level of expertise through Education Services courseware and hands-on experience.

Objectives

- Be better prepared for success in taking the actual JNCIE-SP exam.
- Be well-versed in exam topics, environment, and conditions.

Self-Study Bundle Contents

Chapter 1: General System Features

- Initial System Settings
- SNMP Configuration
- Firewall Filters
- Interface Configuration
- Scripting

Chapter 2: IGP Configuration and Troubleshooting

- OSPF Troubleshooting
- IS-IS Troubleshooting
- IGP Rollout

Chapter 3: BGP and Routing Policy

- IBGP and Confederation
- EBGP Configuration
- Routing Policies
- IBGP and Route Reflection

Chapter 4: MPLS Configuration

- LDP Configuration
- RSVP Configuration
- RSVP Protection
- IPv6 Tunneling with 6PE

Chapter 5: Layer 3 VPN Configurations

- Layer 3 VPN Configuration
- Multicast in Layer 3 VPNs
- IPv6 Tunneling with 6PE

Chapter 6: Layer 2 VPN Services

- Layer 2 VPN Configuration
- VPLS Configuration
- EVPN Configuration

Chapter 7: Inter-Provider VPN Configuration

- Inter-Provider VPN Option B
- Inter-Provider VPN Option C

Chapter 8: Class of Service

- Forwarding Classes, Queues, and Schedulers
- Classification, Policing, and Marking

Super Lab 1:

- Initial System Configuration
- Building the Network
- IGP Configuration
- BGP Configuration
- MPLS Configuration
- VPN Configuration
- Class of Service Configuration

Super Lab 2:

- System Features
- Troubleshooting and Configuring IGP
- Troubleshooting and Configuring BGP
- MPLS Configuration
- IPv6 Configuration
- MPLS VPNs Configuration

Appendix – Additional Theory

- OSPF Adjacency Troubleshooting
- BGP Adjacency Troubleshooting
- BGP IPv6 NLRI over IPv4 Peering
- Troubleshooting Multicast Traffic Engineering Using RIB-groups
- Advanced Firewall Filtering

Appendix – Topology Diagrams

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- Troubleshooting and Configuring BGP
- MPLS Configuration
- IPv6 Configuration
- MPLS VPNs Configuration

Resources

All-Access Training Pass

On-Demand

Courses

Schedule

Learning Paths

Certification

Key contacts

Americas: networking.training.ams@hpe.com

Europe, Middle East, Africa: networking.training.emea@hpe.com

Asia Pacific & Japan: networking.training.apj@hpe.com

Asset ID

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