

Juniper Networks - JNCIS-ENT Enterprise Routing and Switching Certification Boot Camp (JIR, JEX)

Code:	7207
Length:	4 days
URL:	View Online

In this accelerated Boot Camp, you will gain the routing and switching knowledge needed for success on the Juniper Networks Certified Internet Specialist Enterprise Routing and Switching (JNCIS-ENT) exam. Students will also gain the hands-on experience needed to configure and monitor the Junos OS and monitoring device operations.

You will review switching concepts and operations, virtual LANs (VLANs), the Spanning Tree Protocol (STP), port and device security features, and high availability (HA) features.

Later, you will cover protocol-independent routing features, load balancing and filter-based forwarding, Open Shortest Path First (OSPF), Border Gateway Protocol (BGP), and IP tunneling.

Skills Gained

- Benefits of implementing switched LANs
- Transparent bridging concepts and operations
- Terms and design considerations for switched LANs
- Enterprise platforms that support Layer 2 switching
- Configure interfaces for Layer 2 switching operations
- Display and interpret the Ethernet switching table
- Access and trunk port modes
- Configure and monitor VLANs
- Voice VLAN and native VLAN concepts
- Configure and monitor interVLAN routing
- STP and Rapid STP (RSTP) operations
- Advantages of using RSTP over STP
- Configure and monitor RSTP
- Bridge protocol data unit (BPDU), Loop, and Root protection features configuration
- Configure and monitor port security and storm control
- Firewall filter support for EX Series Ethernet switches
- Implement and monitor the effects of a firewall filter
- Configure and monitor HA features
- Basic concepts and operational details of a virtual chassis
- Implement a virtual chassis with multiple EX4300 switches
- Configure and monitor static, aggregate, and generated routes
- Purpose of Martian routes and adding new entries to the default list

- Configure and share routes between routing instances
- Implement and monitor Layer 3 load balancing
- Configure and monitor filter-based forwarding
- Configure, monitor, and troubleshoot OSPF
- Steps in the BGP route selection algorithm
- BGP peering options and the default route advertisement rules
- Configure and monitor BGP
- IP tunneling concepts and applications
- Basic operation, configuration, and monitoring of generic routing encapsulation (GRE) and IP over IP (IP-IP) tunnels
- Configure and monitor HA features supported by the Junos OS

Who Can Benefit

- Network technicians responsible for configuring and monitoring devices running the Junos OS.
- Anyone seeking JNCIS-ENT certification

Prerequisites

Students should have basic networking knowledge and an understanding of the Open Systems Interconnection (OSI) reference model and the TCP/IP protocol suite. Students should also attend the Introduction to the Junos Operating System (IJOS) course prior to attending this class.

Course Details

Lab 1: Implementing Layer 2 Switches

Lab 2: Implementing Virtual Networks

Lab 3: Implementing Spanning Tree

Lab 4: Implementing Port Security

Lab 5: Implementing Storm Control and Firewall Filters

Lab 6: Implementing a Virtual Chassis System

Lab 7: Implementing High Availability Features

Lab 8: Protocol-Independent Routing

Lab 9: Load Balancing and Filter-Based Forwarding

Lab 10: Open Shortest Path First

Lab 11: Border Gateway Protocol

Lab 12: IP Tunneling

Lab 13: High Availability

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Appendix: Overview of IS-IS

- IS-IS PDUs
- Adjacency Formation and DIS Election
- Configuring and Monitoring IS-IS
- Basic IS-IS Troubleshooting

Appendix: Routing Information Protocol (RIP)

- Configuration Examples
- Monitoring and Troubleshooting RIP

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Lab 12: IP Tunneling

Lab 13: High Availability

Schedule (as of 3)

Date	Location		
Jul 15, 2019 – Jul 18, 2019	Virtual	GTR	Enroll
Aug 26, 2019 – Aug 29, 2019	Virtual	GTR	Enroll
Sep 16, 2019 – Sep 19, 2019	Virtual		Enroll
Oct 7, 2019 – Oct 10, 2019	San Jose		Enroll
Oct 7, 2019 – Oct 10, 2019	Virtual		Enroll
Oct 28, 2019 – Oct 31, 2019	Virtual		Enroll
Dec 16, 2019 – Dec 19, 2019	Virtual		Enroll

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