

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

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<b>Code:</b>	7207
<b>Length:</b>	4 days
<b>URL:</b>	<a href="#">View Online</a>

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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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