

Enterprise Routing and Switching, Expert (JNCIE-ENT)

The Enterprise Routing and Switching track enables you to demonstrate competence with networking technology in general and Juniper Networks enterprise routing and switching platforms. JNCIE-ENT is at the pinnacle of the enterprise routing and switching certification track. The practical exam is designed to validate your ability to deploy, configure, manage and troubleshoot Junos-based enterprise routing and switching platforms.

Throughout the 6-hour exam, you will build an enterprise network infrastructure consisting of multiple routers and switching devices. You will perform system configuration on all devices and configure protocols and features, such as IGPs, BGP, EVPN, Layer 2 features, routing policies, and class of service.

We recommend the following resources to help you prepare for your exam. However, these resources aren't required, and using them doesn't guarantee you'll pass the exam

Recommended Training

- [JNCIE-ENT Certification Self-Study Bundle](#)
- All courses listed for the underlying certifications

Exam Resources

- [Juniper Tech Library](#)
- Extensive real-world hands-on experience

Additional Preparation

- [Juniper Learning Portal](#)

Exam Objectives

Here is a high-level view of the skillset required to successfully complete the JNCIE-ENT certification exam.

System Management and Monitoring

- Demonstrate knowledge how to implement basic Junos system features.
- Demonstrate knowledge of automation scripts.
- Demonstrate knowledge of how to implement system monitoring.

- Demonstrate knowledge of how to configure aggregated Ethernet interfaces.

Layer 2 Switching and Features

- Demonstrate knowledge of how to configure VLANs.
- Demonstrate knowledge of how to configure or maintain spanning-tree based Layer 2 networks.
- Demonstrate knowledge of how to configure Layer 2 security features.

Layer 3 Switching and Features

- Demonstrate knowledge of how to configure or troubleshoot OSPF.

Exam Details

Exam questions are derived from the recommended training and the exam resources listed above. The exam is only provided in English.

Exam Code

JPR-946

Prerequisite Certification

[JNCIP-ENT](#)

Delivered by

[Juniper Networks](#)

Exam Length

6 Hours

Exam Type

Hands-on lab exam

Recertification

Juniper certifications are valid for three years. For more information, see [Recertification](#)

- Demonstrate knowledge of how to configure or troubleshoot BGP.
- Demonstrate knowledge of how to configure or troubleshoot IP multicast.
- Demonstrate knowledge of how to implement or troubleshoot NAT.

EVPN and Services

- Demonstrate knowledge of how to implement or troubleshoot EVPN VXLANs.

Class of Service (CoS)

- Demonstrate knowledge of how to configure or verify CoS.