

JUNOS, ASSOCIATE (JNCIA-JUNOS)

Earn an associate-level certification that demonstrates understanding of the Juniper Networks operating system, Junos OS.

As part of the Juniper® Enterprise Routing and Switching Certification and Service Provider Routing and Switching Certification tracks, the JNCIA-Junos, Associate, is for networking professionals with beginner-intermediate knowledge of networking. During the written exam, you will demonstrate your understanding of the core functionality of the Junos® OS.

Exam Preparation

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

- [Getting Started with Networking](#)
- [Introduction to the Junos Operating System](#)

Exam Resources

- Industry/product knowledge
- [Juniper TechLibrary](#)

Additional Preparation

- [Juniper Learning Portal](#)

Exam Objectives

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

Networking Fundamentals

Identify the concepts and functionality of various fundamental elements of networking:

- Collision domains and broadcast domains
- Function of routers and switches
- Ethernet networks
- Layer 2 addressing, including address resolution
- Layer 3 /IP addressing, including subnet masks
- IPv4 /IPv6
- Subnetting and supernetting
- Decimal to binary conversion

- Longest match routing
- CoS
- Connection-oriented vs. connectionless protocols

Junos OS Fundamentals

Identify the concepts, benefits, or functionality of the core elements of the Junos OS, including:

- Software architecture
- Control and forwarding planes
- Routing engine and packet-forwarding engine
- Transit traffic processing
- Exception traffic

User Interfaces

Identify the concepts, operation, or functionality of the Junos user interface, including:

- CLI functionality
- CLI modes
- CLI navigation
- CLI Help
- Filtering output
- Active vs. candidate configuration
- Reverting to previous configurations
- Modifying, managing, and saving configuration files
- Viewing, comparing, and loading configuration files
- J-Web (core/common functionality only)

Configuration Basics

Identify the main elements for configuring Junos devices, including:

- Factory-default state
- Initial configuration
- User accounts
- Login classes
- User authentication methods
- Interface types and properties

- Configuration groups
- Additional initial configuration elements, such as Network Time Protocol (NTP), SNMP, system log
- Configuration archival
- Logging and tracing
- Rescue configuration

Describe how to configure basic components of a Junos device

Operational Monitoring and Maintenance

Identify methods of monitoring or maintaining Junos devices, including:

- Show commands
- Monitor commands
- Interface statistics and errors
- Network tools, such as ping, traceroute, telnet, SSH, etc.
- Junos OS installation and upgrades
- Powering on and shutting down Junos devices
- Root password recovery

Describe monitoring or maintenance procedures for a Junos device

Routing Fundamentals

Identify basic routing concepts or functionality for Junos devices, including

- Traffic forwarding concepts
- Routing tables
- Routing vs. forwarding tables
- Route preference
- Routing instances
- Static routing
- Advantages of and use cases for dynamic routing protocols

Describe how to configure or monitor basic routing elements for a Junos device

Routing Policy and Firewall Filters

Identify the concepts or functionality of routing policy and firewall filters on Junos devices

- Default routing policies
- Import and export policies

- Routing policy flow
- Effect of policies on routes and routing tables
- Policy structure and terms
- Policy match criteria, match types, and actions
- Firewall filter concepts
- Filter structure and terms
- Filter match criteria and actions
- Effect of filters on packets
- Unicast reverse-path-forwarding (RPF)

Describe how to configure or monitor routing policies and firewall filters on a Junos device

Exam Details

Exam questions are derived from the recommended training and the exam resources listed previously. Pass/fail status is available immediately after taking the exam. The exam is only provided in English.

Exam Code

JN0-105

Prerequisite Certification

None

Delivered by

Pearson VUE

Exam Length

90 minutes

Exam Type

65 multiple-choice questions

Recertification

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

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