

# Automation and DevOps, Specialist (JNCIS-DevOps)

Earn a specialist-level certification that demonstrates competency in common scripting languages and tools for automating Junos OS device and network functions.

One of two certifications in the Automation and DevOps track, the JNCIS-DevOps, specialist, is designed for networking professionals wanting to advance their knowledge of automation tools and best practices. The written exam verifies your understanding of scripting tools such as PyEZ, Python, and Ansible in relation to Juniper Networks® Junos® Platform devices and networks.

## 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

- [Juniper Platform Automation and NetDevOps](#)

### 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 JNCIS-DevOps certification exam.

### Platform Automation Overview

Identify concepts, general features, or functionality of Junos Platform automation:

- Management process (MGD-based) automation
- Terraform
- Juniper Extension Toolkit (JECT) service process (JSD-based) automation

### gRPC

Describe how to use gRPC/gNMI for automating Junos:

- Proto buff
- gRPC protocol
- OpenConfig

Describe how to use gRPC/gNMI for Junos telemetry:

- Proto buff
- gRPC protocol
- OpenConfig
- Sensor paths
- Tools (gNMIc, TIG stack)

### Ansible

Describe how to use Ansible for automating Junos OS devices and networks:

- Supported files
- Play books
- Vault
- JSNAPy
- Templates (Jinja2)

### Junos Automation Scripts

Describe the concepts, benefits, or operation of automation scripts for Junos OS devices and networks:

- Commit scripts
- Op scripts
- Event scripts
- SNMP scripts

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## YANG

Identify the concepts and general features of managing configuration in Junos devices and networks using Yet Another Next Generation (YANG) models:

- Implementation concepts
- OpenConfig
- YANG syntax and data types

## Exam Details

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

### Exam Code

JNO-423

### Prerequisite Certification

JNCIA-DevOps

### Delivered by

Pearson VUE

### Exam Length

90 minutes

### Exam Type

65 multiple-choice questions

### Software Versions

Junos OS 24.4

## Recertification

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

## About Juniper Networks

Juniper Networks is leading the convergence of AI and networking. Mist™, Juniper's AI-native networking platform, is purpose-built to run AI workloads and simplify IT operations, assuring exceptional and secure user and application experiences—from the edge to the data center to the cloud. Additional information can be found at [juniper.net](https://juniper.net), [X](#), [LinkedIn](#), and [Facebook](#).

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