

# Juniper JNCIS-DevOps: Automation and DevOps Specialist (JN0-423)

This JNCIS-DevOps: Automation and DevOps training helps experienced network engineers scale their Junos environments, and gain the automation skills needed to pass the JN0-423 exam and earn the JNCIS-DevOps certification. This JNCIS-DevOps course is built for professionals who need to make enterprise environments easier to manage with tools like Ansible, telemetry, inventory management, and repeatable automation workflows. You'll build practical experience with Ansible, Nornir, PyEZ, Python, gRPC telemetry, and YANG-based configuration, while learning how experienced engineers automate deployments, validate changes, and support day-to-day Junos operations at scale.

[CBT Nuggets course material](#) →

 STUDY PLAN

## WEEK 1

### Understand the Junos Automation Architecture

MGD vs JSD vs Other D's

Commit Scripts

Op Scripts

Event Scripts

SNMP Scripts

JECT Packages

Terraform

CHALLENGE

### Streaming Telemetry with gRPC/gNMI

Introducing gRPC + gNMI

Explain gRPC and gNMI

Prep a gNMI Lab

Explore Capabilities and Data Models

Subscriptions with Python

CHALLENGE

### Understand Ansible Fundamentals and Architecture

Introducing Ansible

Understand Ansible Architecture

Prep for Ansible

The Ansible configuration file

The Inventory File

The vars Files

The Playbook

Run the Playbook

CHALLENGE

### **Advanced Ansible with Junos**

Introducing Advanced Techniques with Ansible and Juniper

Secure Secrets and Files with Ansible Vault

Prep for JSNAPy

Create JSNAPy Tests

Create a Playbook with JSNAPy Tests

CHALLENGE

### **Create More Complex Ansible Playbooks**

Introducing Playbook Features and Techniques

Gather Facts and Print Debug Messages

Conditional Statements

Loops

Jinja 2 Templates in Ansible Playbooks

CHALLENGE

### **Work with Data Models**

Introducing Yang and Openconfig Data Models

Get All the Data Models

Explore the Data Models with Pyang Tree

Get Capabilities from a Switch

Explore OSPF Using Yang Models

Work with Configurations

CHALLENGE