

# Red Hat Ansible for Network Automation

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**Course Number: DO457**

**Duration: 5 days**

## Overview

## Course Description

Configure and manage network infrastructure using Red Hat Ansible Automation Platform

- Network Automation with Red Hat Ansible Automation Platform (DO457) is designed for network administrators or infrastructure automation engineers who want to use network automation to centrally manage the switches, routers, and other devices in the organization's network infrastructure. Learn how to use Red Hat Ansible Automation Platform to remotely automate the configuration of network devices, test and validate the current network state, and perform compliance checks to detect and correct configuration drift.
- This course is based on Red Hat® Ansible Automation Platform 2.3

## Skills Gained

- Prepare a development environment for Ansible network automation.
- Write and troubleshoot effective Ansible Playbooks for network automation.

- Gather information about network infrastructure configuration for infrastructure awareness and configuration backup.
- Automate specific network administration use cases, including configuration of routers and switches, ports, VLANs, SNMP monitoring, and routing protocols.
- Use Ansible Playbooks to manage devices from various hardware vendors, including Cisco, Juniper, and Arista.
- Centrally manage Ansible content in Git and run it centrally with automation controller.
- Reuse existing, tested network automation code with Ansible Roles, Ansible Content Collections, and Ansible validated content.

## Who Can Benefit

This course is designed for network administrators, network automation engineers, and infrastructure automation engineers who want to learn how to use Ansible to automate the administration, deployment, and configuration management of the network infrastructure of their organization or enterprise.

## Prerequisites

- Experience with network administration, including a solid understanding of TCP/IP, routers, and managed switches
- Familiarity with managing network devices from the command line, preferably with one or more of Cisco IOS, IOS XR, or NX-OS; Juniper JUNOS; Arista EOS; or VyOS
- A working knowledge of Linux, including how to edit text files and run commands from the shell, and how to use SSH to log in to remote systems
- Knowledge equivalent to Red Hat System Administration I (RH124) or better is strongly recommended
- Prior Ansible knowledge is not required

## Outline for this course

- Deploy Ansible
- Run commands and plays
- Parameterize Ansible
- Administer Ansible
- Automate simple networking operations
- Automate complex operations

## Audience

## Course Details

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