

Network Automation with Red Hat Ansible Automation Platform

Duration: 4 Days **Course Code:** DO457 **Delivery Method:** Virtual Learning

Overview:

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

Note: Starting January 1, 2026, Red Hat introduces RHLS-Course — a flexible subscription model now included with this catalog offering. This replaces the previous direct virtual class enrollment from Global Knowledge.

When you purchase this item, you'll receive an RHLS subscription at the course level, giving you the freedom to choose the schedule that works best and self-enroll in your selected class.

Your RHLS subscription includes:

- One live, instructor-led virtual session
- 12 months of self-paced learning access
- One certification exam with a free retake

Onsite Classroom-based sessions and closed course options remain unchanged.

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Virtual Learning

This interactive training can be taken from any location, your office or home and is delivered by a trainer. This training does not have any delegates in the class with the instructor, since all delegates are virtually connected. Virtual delegates do not travel to this course, Global Knowledge will send you all the information needed before the start of the course and you can test the logins.

Target Audience:

This course is designed for network administrators, network automation engineers, and infrastructure automation engineers who are responsible for deploying, managing, and automating the network infrastructure of their organization or enterprise.

Objectives:

- After this course participants should be able to:
- 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

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; or Arista EOS
- Knowledge equivalent to Red Hat System Administration I (RH124) or better is recommended

Testing and Certification

- Red Hat Certified Specialist in Ansible Network Automation exam (EX457)

■ Prior Ansible knowledge is not required
Take Red Hat free assessment to gauge whether this offering is the best fit for your skills [Red Hat Skills Assessment](#)

Follow-on-Courses:

- Developing Advanced Automation with Red Hat Ansible Automation Platform (DO374 - AU374)
- DO409 - Automation with Red Hat Ansible II: Ansible Tower

Content:

Introducing Red Hat Ansible Automation Platform	Managing Variables and Facts	Automating Network Automation Tasks
Describe the fundamental concepts of Ansible and how it is used, and install development tools from Red Hat Ansible Automation Platform	Write playbooks that use variables to simplify management of the playbook and facts to reference information about managed nodes	Automate common network administration tasks, discussing recommended practices and approaches to cross-vendor automation
Implementing an Ansible Playbook	Implementing Task Control	Comprehensive Review
Create an inventory of managed nodes, write a simple Ansible Playbook, and run the playbook to automate tasks on those nodes	Manage task control and task errors in Ansible Playbooks	Demonstrate skills learned in this course by installing, optimizing, and configuring Ansible for the management of network devices and infrastructure
Managing and Running Playbooks	Simplifying Playbooks with Roles and Ansible Content Collections	
Manage automation code in version control and run Ansible Playbooks from a centrally managed automation controller	Use Ansible Roles and Ansible Content Collections to develop playbooks more quickly and to reuse Ansible code	

Additional Information:

Official course book provided to participants

Further Information:

For More information, or to book your course, please call us on Head Office 01189 123456 / Northern Office 0113 242 5931

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