Network Automation with Red Hat Ansible Automation Platform

Duration: 4 Days Course Code: DO457

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.
Updated Jan2026

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
- 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

Testing and Certification

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

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

Describe the fundamental concepts of Ansible and how it is used, and install development tools from Red Hat Ansible Automation Platform

Implementing an Ansible Playbook

Create an inventory of managed nodes, write a simple Ansible Playbook, and run the playbook to automate tasks on those nodes

Managing and Running Playbooks

Manage automation code in version control and run Ansible Playbooks from a centrally managed automation controller

Managing Variables and Facts

Write playbooks that use variables to simplify management of the playbook and facts to reference information about managed nodes

Implementing Task Control

Manage task control and task errors in Ansible Playbooks

Simplifying Playbooks with Roles and Ansible Content Collections

Use Ansible Roles and Ansible Content Collections to develop playbooks more quickly and to reuse Ansible code

Automating Network Automation Tasks

Automate common network administration tasks, discussing recommended practices and approaches to cross-vendor automation

Comprehensive Review

Demonstrate skills learned in this course by installing, optimizing, and configuring Ansible for the management of network devices and infrastructure

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

info@globalknowledge.co.uk

www.globalknowledge.com/en-gb/

Global Knowledge, Mulberry Business Park, Fishponds Road, Wokingham Berkshire RG41 2GY UK