Network Automation with Red Hat Ansible Automation Platform - Red Hat Learning Subscription Course (DO457LS)

Category: AI, Data & Analytics | **Vendor:** Red Hat

Duration: 32.00 hours (4 days) **26.0 CPD Hours** **Rating:** ⭐ 4.6 (5,878 reviews)

Course Information

Delivery Format: Instructor Led - Online

Related Exam: Network Automation with Red Hat Ansible Automation Platform; Management; DO457

Course 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 RHLS Course Includes: 365-Day RHLS Subscription - Full year of access starting from your purchase date. Official Red Hat Training Curriculum - Learn directly from Red Hat’s validated, up-to-date course materials. Hands-On Labs (100 Hours per Course) - Build practical, real-world skills through extensive lab time. One Certification Exam + Free Retake - Includes exam readiness resources to help you prepare with confidence. One Virtual, Instructor-Led Class - Attend a live online class through the Red Hat portal (self-enrollment required using your RHID).

About This Course

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 RHLS Course Includes: 365-Day RHLS Subscription - Full year of access starting from your purchase date. Official Red Hat Training Curriculum - Learn directly from Red Hat’s validated, up-to-date course materials. Hands-On Labs (100 Hours per Course) - Build practical, real-world skills through extensive lab time. One Certification Exam + Free Retake - Includes exam readiness resources to help you prepare with confidence. One Virtual, Instructor-Led Class - Attend a live online class through the Red Hat portal (self-enrollment required using your RHID).

Who Should Attend

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.

Prerequisites & Entry Requirements

General 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 EOSM
- Knowledge equivalent to Red Hat System Administration I (RH124) or better is recommended
- Prior Ansible knowledge is not required

Learning Outcomes

Upon successful completion of this course, participants will 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

Detailed Course Outline

1 - 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

2 - 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

3 - Managing and Running Playbooks

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

4 - Managing Variables and Facts

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

5 - Implementing Task Control

- Manage task control and task errors in Ansible Playbooks

6 - 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

7 - Automating Network Automation Tasks

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

8 - Comprehensive Review

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

Frequently Asked Questions

Q: What delivery options are available for Network Automation with Red Hat Ansible Automation Platform - Red Hat Learning Subscription Course (DO457LS)?

We offer multiple delivery formats:

- Live Instructor-Led Classroom Online (Virtual/Live Online)
- Traditional Instructor-Led Classroom Training (ILT)
- On-site delivery at your offices anywhere in United Kingdom
- Private dedicated courses customized for your team

Q: Which exam does this course prepare me for?

This course prepares you for the Network Automation with Red Hat Ansible Automation Platform; Management; DO457 official exam. You can take this exam at any exam center across United Kingdom including London, Manchester, Birmingham, Edinburgh, or live online wherever you are located.

Q: How many CPD hours does this course provide?

The 4-day Network Automation with Red Hat Ansible Automation Platform - Red Hat Learning Subscription Course (DO457LS) course provides up to 26.0 CPD hours of structured learning. CPD certificates can be provided upon request.

Q: What is the duration of the Network Automation with Red Hat Ansible Automation Platform - Red Hat Learning Subscription Course (DO457LS) training?

The training takes place over 4 day(s), with each day lasting approximately 32.00 hours including breaks for lunch and refreshments.

Q: Do you provide corporate training for Network Automation with Red Hat Ansible Automation Platform - Red Hat Learning Subscription Course (DO457LS)?

Yes, we provide corporate training, dedicated training, and closed classes for Network Automation with Red Hat Ansible Automation Platform - Red Hat Learning Subscription Course (DO457LS). Training can take place anywhere in United Kingdom including London, Manchester, Birmingham, Edinburgh, or live online allowing teams from across United Kingdom or internationally to attend.

Q: Why choose Nexus Human for Network Automation with Red Hat Ansible Automation Platform - Red Hat Learning Subscription Course (DO457LS)?

Nexus Human is recognized as one of the leading training providers. Our trainers have won multiple awards including:

- Small Firms Best Trainer Award
- National Training Partner of the Year (Ireland) - Multiple Years
- Global Top 30 Instructor Awards (2012, 2019, 2021)
- Tech Excellence Award Nominations
- Learning Performance Institute (LPI) External Training Provider Sponsor 2024

Q: Are there any discount codes available?

Yes! Use discount code **PENPAL5** when booking your Network Automation with Red Hat Ansible Automation Platform - Red Hat Learning Subscription Course (DO457LS) training. Please note that only one discount code can be used per booking and cannot be combined with other special offers.

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