Network Automation with Red Hat Ansible Automation Platform

Course code: DO457

As of January 2026, only in-person Red Hat training is available for purchase under the original terms. Virtual training (VT) courses are offered exclusively as part of the annual RHLS Course subscription can be found here.How to schedule a virtual course in the Red Hat Learning Subscription can be found here.Network Automation with Red Hat Ansible Automation Platform (AU457) 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 2.6..

Who is the course for

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.

What we teach you

Required skills

- 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 XE, 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

We recommend completing our no-cost skills assessment before enrolling in any Red Hat Training or Certification.

Learn more.

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Course outline

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.

Developing Automation Content

- Develop Ansible inventories for network devices, explore dynamic inventory concepts, and develop and run network automation playbooks.

Running Network Automation Playbooks

- Manage automation code in a version control system, run Ansible Playbooks from the centrally managed Ansible Automation Platform web UI, and troubleshoot common issues.

Managing Variables and Facts

- Develop playbooks that use variables and facts to simplify network automation, protect sensitive network data with Ansible vault, use surveys in Ansible Automation Platform to supply runtime values, and transform data with filters.

Implementing Task Control

- Develop efficient playbooks using loops and conditionals, handle task failures with automated recovery strategies, validate pre- and post-change network state, and orchestrate multijob automation workflows using Ansible Automation Platform.

Simplifying Playbooks with Roles and Ansible Content Collections

- Use Ansible Roles and Ansible Content Collections to develop reusable, scalable network automation playbooks with included or imported tasks, structured roles, and external content sources.

Automating Network Administration Tasks

- Automate common network administration tasks by using validated network content, Jinja2 templates, and platform-independent modules, and perform rolling configuration updates with automated error recovery.

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