

DO457: Network Automation with Red Hat Ansible Automation Platform

Course Code: DO457

Duration: 4 days

Instructor-led Training (ILT) | Virtual Instructor-led Training (VILT)

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

SKILLS COVERED

- 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 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

- [Take our free assessment](#) to gauge whether this offering is the best fit for your 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 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

MODULES**Module 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

Module 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

Module 3: Managing and Running Playbooks

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

Module 4: Managing Variables and Facts

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

Module 5: Implementing Task Control

- Manage task control and task errors in Ansible Playbooks

Module 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

Module 7: Automating Network Automation Tasks

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

Module 8: Comprehensive Review

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

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