



Red Hat - DevOps

DO457: Ansible for Network Automation

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- 4 Days

Upcoming Dates

Course Description

Configure and manage network infrastructure using Red Hat Ansible Automation for Networking

Ansible for Network Automation (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.

This course is based on Red Hat® Ansible Engine 2.5 and Red Hat® Ansible Tower 3.2.

Learn how to use Red Hat Ansible Automation for Networking to remotely automate configuration of network devices, test and validate the current network state, and perform compliance checks to detect and correct configuration drift.

Course Outline

Deploy Ansible

Install Ansible and create Ansible inventories.

Run commands and plays

Execute ad hoc commands and prepare Ansible playbooks.

Parameterize Ansible

Control tasks with loops and conditions.

Administer Ansible

Safeguard information with Ansible Vault and manage inventories.

Automate simple network operations

Gather network information with Ansible and configure network devices.

Automate complex operations

Solve new MACD challenges and overcome real-world challenges.

Audience

This course is designed for network administrators, network automation engineers, and infrastructure automation engineers who want to learn how to use Ansible to automate the administration, deployment, and configuration management of the network infrastructure of their organization or enterprise.

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; Arista EOS; or VyOS
- You will work with text files and run commands in a Red Hat Enterprise Linux environment. A working knowledge of Linux, including how to edit text files and run commands from the shell, and how to use SSH to log in to remote systems
- Knowledge equivalent to Red Hat [System Administration I \(RH124\)](#) or better is recommended
- Prior Ansible knowledge is not required

What You Will Learn

Impact on the organization

This course is intended to develop the skills needed to use Red Hat Ansible Automation for Networking to implement a network automation solution that allows automated and consistent configuration of devices; validation of configuration and detection; remediation of configuration drift; and management of the automation solution. Such a deployment provides a network infrastructure that can be easily managed and rapidly updated even as it scales to a large number of devices. Using this network infrastructure, the organization can save cost, reduce downtime, and limit costly configuration errors.

Red Hat has created this course in a way intended to benefit our customers, but each company and infrastructure is unique, and actual results or benefits may vary.

Impact on the individual

As a result of attending this course, you will be able to use Red Hat Ansible Automation for Networking to write Ansible playbooks and launch them to manage the routers, switches, and other devices in your network infrastructure. You will have experience with using Ansible to automate several common use cases and have a basic understanding of how to write playbooks that can target devices made by different network hardware vendors supported by Red Hat Ansible Automation.