

[DO457]: Ansible for Network Automation

Length : 4 Days
Delivery Method : Instructor-led (Classroom)

Course Overview

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 content summary

- Install and configure Red Hat Ansible Automation for Networking on a management system
- Use Ansible to run ad hoc commands and playbooks to automate tasks
- Write effective Ansible playbooks for network automation
- Gather information about network infrastructure configuration and backup
- Automate specific network administration use cases, including configuration of routers and switches, ports, VLANs, SNMP monitoring, and routing protocols
- Use Ansible playbooks to target devices from various hardware vendors, including Cisco, Juniper, and Arista

Audience Profile

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.

After Course Completion

[Automation with Ansible II: Ansible Tower \(DO409\)](#)

Pre-Requisites

- 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

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Course Outline

Module 1: Deploy Ansible

Lessons

- Install Ansible and create Ansible inventories

Module 2: Run commands and plays

Lessons

- Execute ad hoc commands and prepare Ansible playbooks

Module 3: Parameterize Ansible

Lessons

- Control tasks with loops and conditions

Module 4: Administer Ansible

Lessons

- Safeguard information with Ansible Vault and manage inventories

Module 5: Automate simple network operations

Lessons

- Gather network information with Ansible and configure network devices

Module 6: Automate complex operations

Lessons

- Solve new MACD challenges and overcome real-world challenges

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