Network Automation with Red Hat Ansible Automation Platform

Course code: AU457

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

Who is the course for

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.

What we teach you

- 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

Required skills

- 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

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

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

Managing and Running Playbooks

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

Managing Variables and Facts

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

Implementing Task Control

- Manage task control and task errors in Ansible Playbooks

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

Automating Network Automation Tasks

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

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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