Network Automation with Red Hat Ansible Automation Platform (DO457) Training

Duration: **4 Day**

BILGINÇ IT Academy
info@bilginc.com
+44 20 3807 0925
+90 212 282 7700

Overview

Streamline and centralize your **network infrastructure management** using **Red Hat Ansible Automation Platform**.

The {*training} is designed for **network administrators** and **infrastructure automation engineers** who want to automate switches, routers, and network devices across their organization.

You'll learn how to use **Red Hat Ansible Automation Platform** to remotely configure network devices, perform **compliance checks**, **validate configurations**, and detect configuration drift — ensuring consistency and reliability across your infrastructure.

> *This course is based on Red Hat® Ansible Automation Platform 2.3.*

Prerequisites

- Experience with **network administration** and understanding of **TCP/IP**, routers, and managed switches.
- Familiarity with CLI management on devices such as **Cisco IOS / NX-OS**, **Juniper Junos**, or **Arista EOS**.
- Knowledge equivalent to **Red Hat System Administration I (RH124)** or higher.
- No prior Ansible experience is required.

Who Should Attend

This course is intended for:

- **Network administrators** managing enterprise-scale infrastructure.
- **Network automation engineers** adopting Infrastructure as Code (IaC).
- **DevOps or infrastructure specialists** looking to automate cross-vendor devices.

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What You Will Learn

By the end of this {*training}, you will have gained knowledge and skills in the following areas:

- Prepare and configure a **development environment** for Ansible network automation.
- Write, troubleshoot, and optimize **Ansible Playbooks** for network management.
- Collect and back up **network configuration data** for visibility and recovery.
- Automate real-world **network use cases**: configuring routers, switches, VLANs, SNMP, and routing protocols.
- Manage **multi-vendor network devices** (Cisco, Juniper, Arista, etc.) using Ansible Playbooks.
- Store and execute automation code via **Git repositories** and **automation controller**.
- Reuse proven automation code using **Ansible Roles**, **Content Collections**, and **validated content**.

Impact on the Organization

By adopting **Red Hat Ansible Automation Platform** for network operations, organizations can:

- Increase **operational efficiency** and reduce manual configuration errors.
- Ensure **consistent, repeatable, and compliant** network changes.
- Use the **same automation tools** for Linux, Windows, and network infrastructure — simplifying auditing and maintenance.
- Enable **cross-vendor automation** with unified workflows for Cisco, Juniper, and Arista devices.

This course helps teams standardize network management and scale their automation strategy enterprise-wide.

Impact on the Individual

After completing this course, you will be able to:

- Write and execute **Ansible Playbooks** for routers, switches, and other network devices.
- Automate **common networking tasks** (configuration, testing, compliance).
- Manage **multi-vendor network environments** using Red Hat Ansible.
- Centralize playbook management with **Git and automation controller**.
- Apply best practices for **scalable, reusable network automation**.

By the end of the course, you'll have the skills to modernize and automate network operations using Red Hat's powerful automation ecosystem.

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Outline

1. Introduction to Red Hat Ansible Automation Platform
Understand Ansible fundamentals and install the necessary development tools from the platform.

2. Implementing Ansible Playbooks
Create an inventory of managed nodes, write Ansible Playbooks, and execute automation tasks.

3. Managing and Running Playbooks
Use **version control (Git)** to manage automation code and deploy centrally with **automation controller**.

4. Managing Variables and Facts
Leverage variables to simplify playbook management and use facts to reference device information.

5. Implementing Task Control
Handle task dependencies, conditions, and error recovery within playbooks.

6. Simplifying Playbooks with Roles and Content Collections
Accelerate automation by reusing structured code through **Roles** and **Collections**.

7. Automating Network Administration Tasks
Automate common network operations such as **interface configuration**, **SNMP setup**, **VLAN management**, and **routing**.

8. Comprehensive Review
Validate your skills by deploying and managing network devices using Ansible.