

# RED HAT ANSIBLE FOR NETWORK AUTOMATION (DO457)

Course Code: 100185

Learn how to use Red Hat Ansible Automation for Networking to remotely automate configuration of network devices.

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

Red Hat 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 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

## What You'll 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.

### **Who Needs to Attend**

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

# RED HAT ANSIBLE FOR NETWORK AUTOMATION (DO457)

Course Code: 100185

CLASSROOM LIVE

\$6,345 CAD

4 Day

## Classroom Live 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.

Note: Course outline is subject to change with technology advances and as the nature of the underlying job evolves. For questions or confirmation on a specific objective or topic, please contact your Training Advisor or call 1-800-COURSES.



# RED HAT ANSIBLE FOR NETWORK AUTOMATION (DO457)

Course Code: 100185

VIRTUAL CLASSROOM LIVE

\$6,345 CAD

5 Day

## Virtual Classroom Live 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.

Note: Course outline is subject to change with technology advances and as the nature of the underlying job evolves. For questions or confirmation on a specific objective or topic, please contact your Training Advisor or call 1-800-COURSES.

Mar 17 - 21, 2025 | 11:00 AM - 5:00 PM EDT

Apr 7 - 11, 2025 | 11:00 AM - 5:00 PM EDT

Apr 21 - 25, 2025 | 11:00 AM - 5:00 PM EDT

May 19 - 23, 2025 | 11:00 AM - 5:00 PM EDT

Jun 2 - 6, 2025 | 11:00 AM - 5:00 PM EDT

Jun 23 - 27, 2025 | 11:00 AM - 5:00 PM EDT

# RED HAT ANSIBLE FOR NETWORK AUTOMATION (DO457)

Course Code: 100185

ON-DEMAND

\$5,393 CAD

## On-Demand 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.



# RED HAT ANSIBLE FOR NETWORK AUTOMATION (DO457)

Course Code: 100185

PRIVATE GROUP TRAINING

4 Day

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