

Automation with Ansible I (DO407VT)

Modality: Virtual Classroom

Duration: 5 Days

About the course:

Information Technology Automation plays a pivotal role in efficiently managing bulks of applications and system data. This course is designed for professionals striving for excellence in this field of data automation with Ansible DO407. This course will help professionals efficiently use Ansible playbooks to evaluate servers' deployment and configuration and diligently automate tasks. Besides this, it will also help professionals learn the practical strategies for approaching automation and administration related tasks in Linux System. This line of work is in incredibly high demand and an average Red Hat Software Engineer earns **\$87,078** annually.

Course Objectives:

The core objective of this course is to help professionals attain substantial knowledge of the following:

- Red Hat Ansible Engine Installation on Control Nodes.
- Creating and Updating the Managed Host's Inventories and Managing Connections.
- Administration Tasks Automation with ad hoc commands and Ansible playbooks.
- Ansible Playbook Creation at Scale.
- Sensitive Data Protection with Ansible Vault.
- Using Ansible Roles for better and easier Playbook Development.

Audience:

This course is tailored for professionals responsible for the automation of management systems and consistent application deployment. Professionals liable for provisioning of development, creating and evaluating servers, and DevOps CI/CD workflows integration are also the perfect candidates for this course. In a nutshell, this course is specifically designed for the following professionals:

- DevOps Engineers
- Linux System Administrators
- System Design Engineer
- Infrastructure Automation Engineer

Prerequisites:

Professionals planning on taking the Automation with Ansible (DO407) course need to complete the following prerequisites:

- Red Hat Certified System Administrator (RHCSA) Certification or Equivalent Knowledge and Experience of working with Red Hat® Enterprise Linux®

It is highly recommended for professionals to have Red Hat Certified Engineer (RHCE) Certification. However, it is not obligatory for all interested candidates.

Course Outline:

Introduction to Ansible

- Describe Ansible concepts and install Red Hat Ansible Engine.

Deploy Ansible

- Configure Ansible to manage hosts and run ad hoc Ansible commands.

Implement playbooks

- Write a simple Ansible playbook and run it to automate tasks on multiple managed hosts.

Manage variables and facts

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

Implement task control

- Manage task control, handlers, and task errors in Ansible playbooks.

Deploy files to managed hosts

- Deploy, manage, and adjust files on hosts managed by Ansible.

Manage large projects

- Write playbooks that are optimized for larger, more complex projects.

Simplify playbooks with roles

- Use Ansible roles to develop playbooks more quickly and to reuse Ansible code.

Troubleshoot Ansible

- Troubleshoot playbooks and managed hosts.

Automate Linux administration tasks

- Automate common Linux system administration tasks with Ansible.

Comprehensive review

- Demonstrate skills learned in this course by installing, optimizing, and configuring Ansible for the management of managed hosts.