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Learning Style: Virtual Classroom

Technology: Red Hat

Difficulty: Intermediate

Course Duration: 5 Days

## Automation with Ansible I (DO407VT)



## About this course:

Incorporating IT automation is key to managing large numbers of systems and applications efficiently and consistently at scale. In this course, you will write Ansible playbooks to automate tasks, and you will run them to ensure servers are correctly deployed and configured. You will also explore examples of how to approach the automation of common Linux system administration tasks.

The average salary of a Red Hat Software Engineer salary is **\$87,078** per year.

## Course Objective:

- Install Ansible/Red Hat Ansible Engine on control nodes.
- Create and update inventories of managed hosts and manage connections to them.
- Automate administration tasks with Ansible playbooks and ad hoc commands.
- Write effective Ansible playbooks at scale.
- Protect sensitive data used by Ansible with Ansible Vault.
- Reuse code and simplify playbook development with Ansible roles.

## Audience:

- This course is designed for Linux system administrators, DevOps engineers, infrastructure automation engineers, and systems design engineers. The curriculum is particularly geared toward those responsible for automation of configuration management; consistent and repeatable application deployment; provisioning and deployment of development, testing, and production servers; and integration with DevOps CI/CD workflows.

## Prerequisite:

- Be a Red Hat Certified System Administrator (RHCSA), or demonstrate equivalent Red Hat® Enterprise Linux® knowledge and experience
- Being a Red Hat Certified Engineer (RHCE) may be beneficial

## 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.

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