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Learning Style: Virtual Classroom

Technology: Red Hat

Difficulty: Intermediate

Course Duration: 5 Days

## Red Hat Enterprise Linux Automation with Ansible (RH294VT)



### About this course:

**Learn how to automate Linux system administration tasks with Ansible**

Red Hat System Administration III: Linux Automation with Ansible (RH294) teaches

the skills needed to manage large numbers of systems and applications efficiently and consistently. You will learn the techniques needed to use Ansible® to automate provisioning, configuration, application deployment, and orchestration.

This course is based on Red Hat® Enterprise Linux® 8 and Red Hat Ansible Engine 2.8.

## **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 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 geared toward Linux system administrators, DevOps engineers, infrastructure automation engineers, and systems design engineers who are responsible for these tasks:

- Automating configuration management
- Ensuring consistent and repeatable application deployment
- Provisioning and deployment of development, testing, and production servers
- Integrating with DevOps continuous integration/continuous delivery workflows

## **Prerequisite:**

- Pass the Red Hat Certified System Administrator (RHCSA) exam (EX200), or demonstrate equivalent Red Hat Enterprise Linux knowledge and experience

## **Course Outline:**

### **Introduce 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.

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