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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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