

# Red Hat Enterprise Linux Automation with Ansible

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<b>Code:</b>	RH294
<b>Length:</b>	4 days
<b>URL:</b>	<a href="#">View Online</a>

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Red Hat System Administration III: Linux Automation (RH294) is designed for Linux® system administrators and developers who need to automate provisioning, configuration, application deployment, and orchestration. You will learn how to install and configure Ansible® on a management workstation; prepare managed hosts for automation; write Ansible Playbooks to automate tasks; and run playbooks to ensure servers are correctly deployed and configured.

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

## Skills Gained

As a result of attending this course, you should be able to use Ansible for the purpose of automation, configuration, and management. You should be able to demonstrate these skills:

- Install and configure Ansible or Red Hat Ansible Engine on a control node.
- Create and manage inventories of managed hosts, as well as prepare them for Ansible automation.
- Run individual ad hoc automation tasks from the command line.
- Write Ansible Playbooks to consistently automate multiple tasks and apply them to managed hosts.
- Parameterize playbooks using variables and facts, and protect sensitive data with Ansible Vault.
- Write and reuse existing Ansible roles to simplify playbook creation and reuse code.
- Automate common Red Hat Enterprise Linux system administration tasks using Ansible.

## Who Can Benefit

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

## Prerequisites

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

## Course Details

### 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.

