

## Red Hat Certified Engineer (RHCE) RHEL 9

### Red Hat System Administration III: Linux Automation (RH294)

Learn how to automate Linux system administration tasks with Ansible in 5 days ( 40 hours )

- 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® 9 and Red Hat Ansible Automation Platform 2.2 (Ansible 2.13).

#### Course content summary

- 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 .
- Write effective playbooks at scale.
- Protect sensitive data used by Ansible with Ansible Vault.
- Reuse code and simplify playbook development with Ansible roles.

#### Audience for this course

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 for this course

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.

### Implementing an Ansible Playbook

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

### Managing Variables and Facts

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

### Implementing task control

Manage task control, handlers, and task errors in Ansible Playbooks.

### Deploying files to managed hosts

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

### Managing complex Plays and Playbooks

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

### Simplifying Playbooks with Roles and Ansible Content Collections

Use Ansible Roles and Ansible Content Collection to develop playbooks more quickly and to reuse Ansible code.

### Troubleshooting Ansible

Troubleshoot playbooks and managed hosts.

### Automating Linux Administration Tasks

Automate common Linux system administration tasks with Ansible.

## Recommended next exam or course

Red Hat Certified Engineer (RHCE) exam on Red Hat Enterprise Linux 9 (EX294)

Developing Advanced Automation with RHAAP (DO374)

Managing Enterprise Automation with RHAAP (DO467)