

## Red Hat Certified Engineer (RHCE) RHEL 8

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

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

- 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.

#### 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 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 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.

### 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.

## Recommended next exam or course

Red Hat Certified Engineer (RHCE) exam on Red Hat Enterprise Linux 8 (EX294)

Automation with Ansible II: Ansible Tower (DO409)