

RH294: Red Hat Enterprise Linux Automation with Ansible

Course Code: RH294

Duration: 4 days

Instructor-led Training (ILT) | Virtual Instructor-led Training (VILT)

OVERVIEW

Learn how to automate Linux system administration tasks with Ansible.

Red Hat Enterprise 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.

SKILLS COVERED

After taking this course, you should be able to:

- 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.

WHO SHOULD ATTEND?

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 [EX-200: Red Hat Certified System Administrator \(RHCSA\) exam](#), or demonstrate equivalent Red Hat Enterprise Linux knowledge and experience
- [Take our free assessment](#) to gauge whether this offering is the best fit for your skills.

MODULES

Module 1: Introduce Ansible

- Describe Ansible concepts and install Red Hat Ansible Engine.

Module 2: Deploy Ansible

- Configure Ansible to manage hosts and run ad hoc Ansible commands.

Module 3: Implement Playbooks**END OF PAGE**

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

Module 4: Manage Variables and Facts

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

Module 5: Implement Task Control

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

Module 6: Deploy Files to Managed Hosts

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

Module 7: Manage Large Projects

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

Module 8: Simplify Playbooks with Roles

- Use Ansible roles to develop playbooks more quickly and to reuse Ansible code.

Module 9: Troubleshoot Ansible

- Troubleshoot playbooks and managed hosts.

Module 10: Automate Linux Administration Tasks

- Automate common Linux system administration tasks with Ansible.