

# Red Hat Enterprise Linux Automation with Ansible (RH294) HT2K3S

<b>HPE course number</b>	HT2K3S
<b>Course length</b>	4 days ILT 5 days VILT
<b>Delivery mode</b>	ILT, VILT
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In this course, students learn how to automate Linux system administration tasks with Red Hat Ansible Automation Platform. This course is based on Red Hat Enterprise Linux 9 and Red Hat Ansible Automation Platform 2.2.

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## Audience

This course is for Linux system administrators, DevOps engineers, infrastructure automation engineers, and systems design engineers who are responsible for:

- Automating configuration management
- Ensuring consistent and repeatable application deployment
- Provisioning and deploying 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 Objectives

- Installing Red Hat Ansible Automation Platform on control nodes
- Creating and updating inventories of managed hosts and managing connections to them
- Automating administration tasks with Ansible Playbooks and ad hoc commands
- Writing effective playbooks at scale
- Protecting sensitive data used by Ansible Automation Platform with Ansible Vault
- Reusing code and simplifying playbook development with Ansible Roles and Ansible Content Collections

## Detailed course outline

<b>Introduce Ansible</b>	<ul style="list-style-type: none"> <li>Describe the fundamental concepts of Red Hat Ansible Automation Platform and how it is used, and install Red Hat Ansible Automation Platform</li> </ul>
<b>Implement an Ansible Playbook</b>	<ul style="list-style-type: none"> <li>Create an inventory of managed hosts, write a simple Ansible playbook, and run the playbook to automate tasks on those hosts</li> </ul>
<b>Manage Variables and Facts</b>	<ul style="list-style-type: none"> <li>Write playbooks that use variables to simplify management of the playbook and facts to reference information about managed hosts</li> </ul>
<b>Implement Task Control</b>	<ul style="list-style-type: none"> <li>Manage task control, handlers, and task errors in Ansible Playbooks</li> </ul>
<b>Deploy Files to Managed Hosts</b>	<ul style="list-style-type: none"> <li>Deploy, manage, and adjust files on hosts managed by Ansible</li> </ul>
<b>Manage Complex Plays and Playbooks</b>	<ul style="list-style-type: none"> <li>Write playbooks that are optimized for larger, more complex plays and playbooks</li> </ul>
<b>Simplify Playbooks with Roles</b>	<ul style="list-style-type: none"> <li>Use Ansible roles to develop playbooks more quickly and to reuse Ansible code</li> </ul>
<b>Troubleshoot Ansible</b>	<ul style="list-style-type: none"> <li>Troubleshoot playbooks and managed hosts</li> </ul>
<b>Automate Linux Administration Tasks</b>	<ul style="list-style-type: none"> <li>Automate common Linux system administration tasks with Ansible</li> </ul>

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