



RED HAT TRAINING

Rh295 Red Hat Enterprise Linux Automation Ansible Course

Automate Red Hat Enterprise Linux tasks with Ansible. Master configuration management, deployment, and orchestration for efficient IT operations.

DURATION

2 hours

LEVEL

Intermediate

FORMAT

Instructor-Led

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- Globally Recognized Certification
 - Expert-Led Hands-On Training
 - Flexible Scheduling

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COURSE OVERVIEW

The "RH295 Red Hat Enterprise Linux Automation with Ansible" course at Computer Pride is an intensive, intermediate-level program designed to equip IT professionals with the essential skills to automate the configuration, deployment, and orchestration of Red Hat Enterprise Linux environments using Ansible. In today's dynamic IT landscape, the ability to automate repetitive tasks is crucial for efficiency, consistency, and scalability, making Ansible an indispensable tool for system administrators, DevOps engineers, and automation specialists. This course delves deep into Ansible's architecture, core components, and best practices for managing complex IT infrastructures.

Participants will gain hands-on experience in writing effective Ansible playbooks, managing inventories, working with variables and facts, and implementing advanced automation techniques like roles and handlers. The curriculum covers foundational Ansible concepts and progresses to more sophisticated topics, including vault for sensitive data, dynamic inventories, and integrating Ansible with other Red Hat technologies. By mastering Ansible, you will learn to streamline routine administrative tasks, ensure consistent system states, and rapidly deploy applications across your RHEL estate, significantly reducing manual effort and potential for human error.

Upon completion, you will not only be proficient in using Ansible for enterprise-level automation but also well-prepared to pursue the Red Hat Certified Specialist in Ansible Automation exam. This certification validates your expertise, enhancing your professional credibility and opening doors to specialized roles in automation and systems management. Investing in this course means investing in a future where your IT operations are agile, reliable, and highly automated, driving greater value for your organization and accelerating your career progression.

Duration	2 hours
Level	Intermediate
Vendor	Red Hat

COURSE CURRICULUM

01 Module 1: Getting Started with Ansible Automation

- Introduction to Ansible and its architecture
- Installing and configuring the Ansible control node
- Setting up Ansible inventory for Red Hat Enterprise Linux hosts
- Running ad-hoc commands with Ansible
- Understanding idempotence and declarative automation

02 Module 2: Writing and Executing Ansible Playbooks

- Anatomy of an Ansible playbook
- Creating and executing basic playbooks
- Working with common Ansible modules (e.g., yum, service, user, copy)
- Handling variables and facts in playbooks
- Implementing conditionals and loops for dynamic tasks

03 Module 3: Managing Inventory and Variables

- Structuring static and dynamic inventories
- Defining host and group variables
- Understanding variable precedence and scope
- Using Jinja2 templates for dynamic configuration files

- Securing sensitive data with Ansible Vault

04 Module 4: Implementing Reusability with Ansible Roles

- Introduction to Ansible roles for structured automation
- Creating and organizing custom roles
- Using handlers for controlled service restarts
- Implementing task includes and imports for modularity
- Leveraging Ansible Galaxy for pre-built roles and collections

05 Module 5: Advanced Automation Techniques and Orchestration

- Orchestrating multi-tier application deployments
- Using strategies and delegations for complex scenarios
- Introduction to Ansible Tower/AWX for enterprise automation management
- Integrating Ansible with version control systems (e.g., Git)
- Troubleshooting playbooks and hosts for effective debugging

CAREER PATHWAYS

Graduates of this program are prepared for the following roles:

- > **Red Hat Systems Automation Engineer**
- > **DevOps Infrastructure Engineer**
- > **Cloud Solutions Architect (focused on Linux environments)**

FREQUENTLY ASKED QUESTIONS

Q: What are the prerequisites for enrolling in the RH295 Red Hat Enterprise Linux Automation with Ansible course?

This course assumes prior experience with Red Hat Enterprise Linux system administration at an intermediate level. Participants should be comfortable with command-line operations, managing files, configuring network settings, and understanding basic security concepts on RHEL. While not strictly required, familiarity with scripting concepts (e.g., Bash) can be beneficial for a deeper understanding of automation logic.

Q: How will this course specifically help me automate my existing RHEL infrastructure tasks?

The RH295 course is intensely practical and designed for immediate application. You will learn to identify repetitive RHEL tasks—such as package installation, service management, user provisioning, and file deployments—and convert them into scalable, idempotent Ansible playbooks. The curriculum focuses on real-world scenarios, enabling you to build automation solutions that ensure consistency, reduce manual errors, and accelerate operational workflows across your entire RHEL environment, from single servers to large clusters.

Q: Beyond the certification, what specific real-world challenges will I be equipped to solve after completing RH295?

Upon successful completion of RH295, you will be able to solve critical challenges such as inconsistent system configurations across a fleet of RHEL servers, slow and error-prone application deployments, and the manual burden of patching and updates. You will gain the skills to rapidly provision new RHEL systems, enforce compliance policies automatically, and manage complex application lifecycles with unprecedented efficiency and reliability, transforming your

approach to infrastructure management and driving operational excellence.

ABOUT COMPUTER PRIDE



East Africa's Premier IT Training Center

With over 15 years of excellence, Computer Pride delivers globally recognized certification programs from leading technology vendors. Located on Kenyatta Avenue in Nairobi's CBD, our state-of-the-art facilities and expert instructors have empowered thousands of professionals across East Africa.

15+

Years of Excellence

10,000+

Professionals Trained

50+

Vendor Certifications

READY TO ENROL?

Take the next step in your technology career.

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