Red Hat Enterprise Linux Automation with Ansible

Course code: AU294

Learn how to automate Linux system administration tasks with Ansible.Red Hat Enterprise Linux Automation with Ansible (AU294) is designed for Linux administrators and developers who need to automate repeatable and error-prone steps for system provisioning, configuration, application deployment, and orchestration.This course is based on Red Hat® Enterprise Linux® 10, Ansible Core 2.16 and Ansible development tools in alignment with Red Hat Ansible Automation Platform 2.5 and 2.6.

Who is the course for

This course is geared toward Linux system administrators, DevOps engineers, Site Reliability Engineers, infrastructure automation engineers, and developers who are responsible for repeatable tasks such as:

- 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

What we teach you

- Install and configure Ansible development tools in VS Code and configure Ansible settings.
- 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 Automation Platform with Ansible Vault.
- Reuse code and simplify playbook development with Ansible Roles and Ansible Content Collections.

Required skills

- Take our free assessment
- to gauge whether this offering is the best fit for your skills.
- Pass the
- Red Hat Certified System Administrator (RHCSA) exam (EX200)
- , or demonstrate equivalent Red Hat Enterprise Linux knowledge and experience.

Impact on the organization

- Bring operational efficiency by removing manual processes through automation.
- Easily scale the organization's dynamic IT infrastructure.
- Accelerate application time to value.
- Rapidly adapt and implement needed innovation through DevOps practices.

Impact on the individual

You will be able to apply automation-first principles to solve real-world Linux system and services problems through the effective creation of Ansible playbooks. You will gain the skills to automate your workflows, build the foundation for DevOps practices, and learn how to leverage Ansible for developmental efficiencies.

Recommended next course or exam

- Red Hat Certified Engineer (RHCE) exam (EX294)
- Developing Advanced Automation with Red Hat Ansible Automation Platform (AU374)

Course outline

An introduction to Ansible

- Describe the fundamental concepts of Ansible and how it is used, install and configure Ansible development tools in VS Code, and configure Ansible settings.

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Developing automation content

- Build Ansible inventories, write and run simple and complex playbooks, and troubleshoot playbooks and host failures.

Developing Automation Content: Variables

- Write playbooks that use variables to simplify management of the playbook, protect sensitive data in variables, and use facts and magic variables to reference information about managed hosts.

Developing Automation Content: Task Control

- Write plays that use task control features to efficiently specify a task that must run once for each item in a list, or that only runs if certain conditions are met.

Developing Automation Content: Deploying Files

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

Developing Automation Content at Scale

- Manage complex Ansible Playbooks by importing or including other playbooks and tasks, as well as by using advanced host patterns to efficiently select specific hosts from your inventory.

Reusing Code with Ansible Roles and Content Collections

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

Automate Linux administration tasks

- Automate common Linux system administration tasks with Ansible.

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