Red Hat Enterprise Linux Automation with Ansible (AU294) Training

Duration: **4 Day**

BILGINÇ IT Academy
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Overview

Automate and streamline Linux system administration with Ansible.

Red Hat Enterprise Linux Automation with Ansible (AU294) teaches Linux administrators, DevOps engineers, and developers how to **automate complex and repetitive IT tasks**—including system provisioning, configuration, application deployment, and orchestration.
Through guided labs, participants gain practical experience building automation workflows using **Ansible Core 2.16**, **Ansible development tools**, and **Red Hat Ansible Automation Platform 2.5 and 2.6** within a modern development environment such as **Visual Studio Code**.

This course is based on Red Hat® Enterprise Linux® 10.

Prerequisites

Participants should:

- Have earned the **Red Hat Certified System Administrator (RHCSA)** certification (EX200), or
- Possess equivalent experience with **Red Hat Enterprise Linux administration**

Who Should Attend

This course is designed for professionals responsible for automating, managing, and scaling infrastructure operations, including:

- **Linux System Administrators**
- **DevOps Engineers**
- **Site Reliability Engineers (SREs)**
- **Infrastructure Automation Engineers**
- **Developers** responsible for deployment pipelines and CI/CD processes

Use cases include:

- Automating configuration management
- Ensuring consistent deployments
- Provisioning development, test, and production environments
- Integrating automation with DevOps workflows

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What You Will Learn

By completing this course, participants will learn to:

- Install and configure **Ansible development tools** in VS Code and manage Ansible settings.
- Build and maintain **inventories of managed hosts** and control connections between them.
- Write and execute **Ansible Playbooks** to automate administrative tasks.
- Develop scalable and modular automation content.
- Protect sensitive data using **Ansible Vault**.
- Reuse and organize automation code efficiently using **Ansible Roles** and **Content Collections**.

Impact on the Organization

Implementing Red Hat Ansible automation delivers measurable business value:

- **Streamlines operations** by eliminating repetitive manual processes.
- **Improves scalability** of IT infrastructure across environments.
- **Accelerates deployment cycles**, increasing time-to-value for applications.
- **Supports DevOps adoption**, enabling consistent, automated workflows from development to production.

Automation with Ansible enables enterprises to respond faster to change and operate more efficiently.

Impact on the Individual

After completing this course, participants will be able to:

- Automate Linux system administration with **Ansible Playbooks**.
- Apply **automation-first principles** to simplify workflows and eliminate human error.
- Develop scalable automation using **roles, variables, and collections**.
- Build a foundation for **DevOps and Infrastructure-as-Code practices**.
- Use Ansible to increase productivity and standardize IT processes.

This course equips IT professionals with the skills to become automation specialists in enterprise environments.

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Outline

1. Introduction to Ansible
Learn Ansible fundamentals, install Ansible development tools in VS Code, and configure project settings.

2. Developing Automation Content
Create and troubleshoot simple and complex playbooks, and manage inventories of managed hosts.

3. Variables and Facts in Ansible
Use variables to simplify playbook management, secure sensitive data, and reference host-specific information dynamically.

4. Task Control Techniques
Use conditionals, loops, and handlers to improve playbook efficiency and control flow.

5. Deploying and Managing Files
Deploy, customize, and manage configuration files across managed systems using Ansible tasks and templates.

6. Scaling Automation Content
Manage large-scale playbooks using imports, includes, and advanced host pattern matching.

7. Reusing Code with Roles and Collections
Use **Ansible Roles** and **Content Collections** to modularize and share automation code.

8. Automating Linux Administration Tasks
Automate common Linux management tasks such as user management, package updates, and service configuration.