Developing Advanced Automation with Red Hat Ansible Automation Platform (AU374) Training

Duration: **4 Day**

BILGINÇ IT Academy
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Overview

Take your Ansible expertise to the next level and design **scalable, enterprise-grade automation** using the latest container-focused tools from the **Red Hat Ansible Automation Platform**.

The {*training} is built for automation content creators who want to efficiently design and manage automation through a unified interface.
You will master **recommended practices**, **reusable automation code**, **advanced playbook techniques**, and **shared automation execution environments**, all while preparing for scalable automation with **Automation Content Navigator**.

> *This course is based on Red Hat Ansible Automation Platform version 2.5.*

Who Should Attend

This course is ideal for professionals who develop or manage automation content, including:

- **Developers** building automation solutions.
- **DevOps Engineers** managing continuous delivery pipelines.
- **Linux System Administrators** automating infrastructure operations.
- **IT Professionals** experienced in using Ansible for provisioning, configuration, and deployment of applications and services.

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What You Will Learn

By the end of this {*training}, you will have gained knowledge and skills in the following areas:

- Use **Automation Content Navigator** to develop and manage Ansible Playbooks.
- Apply **best practices** for efficient and reliable automation development.
- Use advanced features such as **filters** and **plug-ins** to manipulate and process data.
- Implement **rolling updates** to minimize downtime during deployments.
- Create **Automation Execution Environments** to package and share dependencies for automation code.

Impact on the Organization

Organizations will gain the ability to:

- Distribute automation efficiently across teams using **reusable, standardized code**.
- Build automation frameworks that scale seamlessly across **enterprise and hybrid environments**.
- Enhance maintainability and operational consistency through **containerized architecture**.

Impact on the Individual

By completing this course, you will:

- Develop scalable and maintainable automation projects for large teams.
- Create and manage **Automation Execution Environments** and **Content Collections**.
- Optimize and troubleshoot Ansible Playbooks efficiently.
- Use **Automation Content Navigator** to manage the entire automation lifecycle.

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Outline

1. Develop Playbooks with Ansible Automation Platform 2
Follow industry best practices to design scalable Ansible Playbooks.

2. Manage Ansible Content Collections and Execution Environments
Run playbooks using external content collections, either within existing execution environments or from the **Automation Hub**.

3. Run Playbooks with Automation Controller
Understand the **Automation Controller**, and learn how to use it to manage playbooks through **Automation Content Navigator**.

4. Work with Ansible Configuration Settings
Configure and fine-tune Ansible and Automation Content Navigator settings to streamline development and debugging.

5. Manage Inventories
Leverage advanced inventory management techniques for complex environments.

6. Manage Task Execution
Optimize playbook task execution for efficiency and performance.

7. Transform Data with Filters and Plug-ins
Manipulate and manage variables using Ansible's built-in filters and custom plug-ins.

8. Coordinate Rolling Updates
Use Ansible's advanced functionality to orchestrate rolling updates while minimizing downtime.

9. Create Content Collections and Automation Execution Environments
Develop, publish, and embed your own **Ansible Content Collections** and **Execution Environments**, and execute them using the **Automation Controller**.