Managing Enterprise Automation with Red Hat Ansible Automation Platform (AU467) Training

Duration: **4 Day**

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Overview

Centralize and scale enterprise automation with Red Hat Ansible Automation Platform.

The **Managing Enterprise Automation with Red Hat Ansible Automation Platform (AU467)** course provides advanced skills for DevOps engineers and system administrators who need to manage automation at scale.
You'll learn to **install, configure, and maintain Red Hat Ansible Automation Platform** components—including the **automation controller**, **private automation hub**, and **automation mesh**—to ensure high availability, reliability, and performance across your organization.

This course emphasizes best practices for**centralized management, automation orchestration, role-based access control, and distributed execution**, allowing teams to automate complex workflows and share trusted automation content securely.

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

Prerequisites

Before taking this course, students should:

- Hold **Red Hat Certified Engineer (RHCE)** certification or equivalent Ansible experience.
- Have completed **Developing Advanced Automation with Red Hat Ansible Automation Platform (AU374)** or equivalent knowledge.
- Optionally, pass the **EX374 exam** to achieve the Red Hat Certified Specialist in Developing Automation.

Who Should Attend

This course is designed for experienced professionals responsible for managing automation infrastructure, including:

- **Ansible automation engineers and architects**
- **Linux system administrators** managing enterprise automation
- **DevOps and platform engineers**

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What You Will Learn

After completing this course, you will be able to:

- Deploy and configure **Red Hat Ansible Automation Platform 2** components.
- Manage **users, teams, roles, and access permissions** across the automation environment.
- Integrate the platform with **Git-based repositories** for version-controlled automation.
- Build **complex job workflows** that automate tasks based on conditions, approvals, and results.
- Configure and manage **automation mesh** for distributed and resilient job execution.
- Automate platform configuration using **Ansible Content Collections** and **API integrations**.
- Perform **routine maintenance and troubleshooting** for automation infrastructure.
- Implement **high availability and scaling strategies** for enterprise-grade deployments.

Impact on the Organization

This course empowers organizations to:

- **Streamline IT operations** by managing automation infrastructure from a central point.
- **Increase reliability and scalability** of enterprise automation services.
- **Reduce downtime and manual intervention**, enhancing productivity.
- **Promote reusability and collaboration** with private automation hubs and role-based access.

Implementing these practices results in faster automation deployment, improved governance, and greater operational efficiency across the enterprise.

Impact on the Individual

By completing this course, you will gain the ability to:

- Install and manage automation controllers, private automation hubs, and automation mesh.
- Centralize control and monitoring of automation workflows.
- Integrate Git for versioned automation and collaboration.
- Scale your automation environment for large, distributed teams.
- Apply Red Hat best practices for **high availability, redundancy, and performance tuning**.

This course prepares you to manage complex enterprise automation systems confidently and at scale.

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Outline

1. Installing Red Hat Ansible Automation Platform
Understand the platform's architecture and perform installations of automation controller and private automation hub.

2. Managing User Access
Create user accounts, organize users into teams, and assign roles for fine-grained access control.

3. Managing Inventories and Credentials
Configure inventories and machine credentials for connecting to managed systems.

4. Managing Projects and Launching Jobs
Create projects, define job templates, and automate playbook execution stored in Git repositories.

5. Advanced Job Configuration
Leverage advanced job options such as prompts, surveys, and multi-playbook templates.

6. Constructing Job Workflows
Design sequential and branching workflows with conditional logic, failure handling, and approval gates.

7. Managing Dynamic Inventories
Integrate external data sources and use plug-ins to dynamically generate inventories.

8. Automating Platform Configuration
Automate configuration management using **Ansible Collections**, **APIs**, and **Git webhooks**.

9. Maintaining the Automation Platform
Perform regular maintenance, updates, and monitoring of Ansible Automation Platform components.

10. Scaling the Platform with Automation Mesh
Distribute workloads efficiently across remote execution nodes using automation mesh for scalability and fault tolerance.

11. Comprehensive Review
Demonstrate learned skills by configuring an automation hub and implementing an enterprise-grade automation environment.