Configuration as Code for Enterprise Automation with Red Hat Ansible Automation Platform (AU245) Training

Duration: **4 Day**

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Overview

Building Scalable Automation with Configuration as Code

Configuration as Code (CaC) provides an approach for managing configurations in the same structured manner as application code, making changes easier to track, reproduce, and automate. Combined with Git and CI/CD principles, it enables organizations to establish version-controlled and automated processes for managing Red Hat Ansible Automation Platform configurations.

Configuration as Code for Enterprise Automation with Red Hat Ansible Automation Platform (AU245) is designed to teach IT professionals how to manage and scale Red Hat Ansible Automation Platform environments by applying the fundamental principles of Configuration as Code.

Throughout the course, participants explore essential practices ranging from managing code and configuration with Git to team collaboration, CI/CD concepts, and automated management of Ansible Automation Platform configurations.

Organizational Impact

Implementing a Configuration as Code methodology helps organizations establish more robust, version-controlled, and automated processes for configuration management.

Managing configurations as code improves the ability to track changes, supports greater consistency across environments, and reduces errors that may result from manual configuration processes.

This approach also helps organizations scale automation more reliably while reducing operational risks and potential downtime associated with manual and error-prone deployment practices.

Individual Impact

AU245 provides participants with a foundation in Git and CI/CD principles that supports the transition from manually administering Red Hat Ansible Automation Platform to a more automated and code-driven management approach.

Participants develop practical skills for beginning to manage configurations as code, including safely validating and testing configuration changes and promoting deployments from staging environments into production.

By applying these fundamental operations practices, participants can improve collaboration across teams, reduce deployment errors, and develop greater confidence when implementing critical system changes.

Prerequisites

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Participants should have the following knowledge and experience:

- Practical experience creating and running Ansible Playbooks
- A solid understanding of fundamental Ansible concepts, including inventories, variables, Ansible Roles, and Ansible Content Collections
- Basic familiarity with the Red Hat Ansible Automation Platform interface and core concepts such as projects, inventories, and job templates

Although it is not mandatory, completing **Managing Enterprise Automation with Red Hat Ansible Automation Platform (AU467)** before attending this course is recommended.

Who Should Attend

This course is particularly suitable for:

- Ansible automation architects and platform engineers responsible for planning, designing, and deploying Ansible automation infrastructure within their organizations
- System administrators who support enterprise automation operations
- Site reliability engineers (SREs) and DevOps engineers responsible for providing, managing, operating, and maintaining Ansible automation infrastructure

What You Will Learn

The course covers the following key areas:

- Applying Configuration as Code and CI/CD principles to address challenges associated with reliably scaling automation
- Managing code and configuration files with the Git distributed version control system
- Collaborating through Git repositories and synchronizing local and remote content to support distributed workflows
- Managing Red Hat Ansible Automation Platform through a Configuration as Code approach
- Using Git, validated Ansible Content Collections, and automated CI/CD pipelines as part of configuration management processes

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Outline

Configuration as Code and CI/CD Principles

Explore how the Configuration as Code methodology can help overcome challenges related to scaling automation in a reliable and sustainable manner. Participants also examine the relationship between Configuration as Code and Continuous Integration/Continuous Delivery (CI/CD) principles.

Introduction to Git

Learn how to use the Git distributed version control system to store, manage, and revise code and configuration files. Participants explore Git's fundamental operating principles as well as practical collaboration techniques involving tags, branches, and conflict resolution.

Collaborating in Git Repositories

Learn how teams can collaboratively develop code and manage configuration files through Git repositories. This section explores practices that can support both distributed and centralized development workflows.

Configuration as Code for Ansible Automation Platform

Learn how to manage a Red Hat Ansible Automation Platform organization by applying Configuration as Code methodologies together with CI/CD principles.