Red Hat Ansible Automation for SAP (RH045) Training

Duration: **30 Day**

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Overview

Discover how to **automate SAP environment setup and operations** with **Red Hat Ansible Automation**.

The {*training} is a **free, on-demand video course** that explains how to automate **SAP deployment, configuration, creation, and migration** using **Red Hat Ansible Tower**.

Led by Red Hat Senior Architect **Ricardo García Cavero**, this technical series focuses on **Day-1 operations** and demonstrates how to:

- Install and deploy **SAP HANA** and **SAP S/4HANA** using **Ansible Tower**,
- Automate **system configuration and patching**,
- Perform **zero-downtime maintenance**, and
- Simplify **SAP workload migrations** to **Red Hat Enterprise Linux (RHEL)**.

This overview course is designed for IT leaders, SAP administrators, and automation engineers seeking a high-level understanding of using Ansible for SAP workloads.

Prerequisites

Basic system administration skills with a fundamental understanding of SAP and automation concepts.

Who Should Attend

This course is intended for:

- **IT leaders** responsible for SAP system modernization.
- **SAP administrators** and **engineers** who manage SAP HANA and S/4HANA environments.
- **Solution architects** exploring automation for SAP operations.
- Anyone seeking to understand how **Ansible simplifies SAP workload management**.

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What You Will Learn

Impact on the Organization

By adopting **Ansible for SAP**, organizations can:

- Automate **SAP lifecycle management** from provisioning to updates.
- Reduce **human error and downtime** through consistent, repeatable processes.
- Streamline **SAP migrations** and achieve **cloud-ready infrastructure**.
- Increase agility by integrating automation into existing DevOps workflows.

This course demonstrates how **Red Hat Ansible Automation** can transform SAP environments into **efficient, secure, and scalable** platforms.

Impact on the Individual

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

- Understand how **Ansible integrates with SAP ecosystems**.
- Automate **SAP HANA and S/4HANA deployments** using **Ansible Tower**.
- Implement **secure patching** and **maintenance automation** with minimal downtime.
- Use **Red Hat Insights** to analyze and optimize SAP workloads.
- Automate **migration and clustering** of SAP systems for reliability and scalability.

This knowledge prepares IT professionals to lead SAP automation initiatives using**Red Hat Ansible Automation Platform**.

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Outline

1. Introduction to Red Hat Ansible Automation for SAP (RH045)
Overview of Ansible's role in automating SAP deployment and management.

2. Understanding SAP Ecosystem: SAP, SAP HANA, and SAP S/4HANA
Explanation of SAP platforms, their use cases, and architecture.

3. Introduction to Ansible
Learn the fundamentals of Ansible, including playbooks, inventories, and roles.

4. How Ansible Works
Explore how Ansible automates configuration and orchestration through agentless architecture.

5. Automating SAP HANA Deployment with Ansible Tower
Step-by-step demonstration of installing and configuring SAP HANA using automation.

6. Secure and Fast SAP Landscape Patching
Automate SAP patch management with minimal downtime.

7. Near-Zero Downtime Maintenance for SAP Environments
Perform upgrades and maintenance for **SAP HANA** and **SAP NetWeaver** without business interruption.

8. Using Red Hat Insights for SAP Workloads
Monitor and optimize SAP performance using **Red Hat Insights** analytics.

9. Automating SAP S/4HANA Deployment
Deploy SAP S/4HANA instances automatically with Ansible workflows.

10. Automating SAP High Availability Clusters
Build and manage **Pacemaker clusters** for SAP HANA and S/4HANA environments.

11. Migrating SAP Workloads from SUSE Linux to Red Hat Enterprise Linux
Automate workload migration to RHEL with minimal risk and downtime.

12. SAP Application Server Autoscaling
Automate scaling of SAP application servers to improve performance and resource efficiency.