# Red Hat Ansible Automation for SAP (RH045) Training

Duration: **30 Day**

BİLGİNÇ IT Academy
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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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## Training 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.