# Red Hat High Availability Clustering for SAP Solutions (RH445) Training

Duration: **5 Day**

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## Building Highly Available SAP Environments on Red Hat Enterprise Linux

**Red Hat High Availability Clustering for SAP Solutions (RH445)** provides the knowledge and skills required to deploy, protect, and scale SAP infrastructure on **Red Hat Enterprise Linux for SAP Solutions**.

The course focuses on recommended practices for deploying**SAP HANA** and **SAP S/4HANA** in high availability configurations. Participants also learn how to automate deployment and configuration activities by using **Red Hat Ansible Automation Platform** together with Red Hat-supported Ansible roles and collections designed for SAP environments.

The training is intended to support mission-critical SAP workloads where reliability, resilience, and reduced downtime are key operational requirements.

## Organizational Impact

High availability clustering can improve the reliability, availability, and resilience of mission-critical services.

Red Hat Enterprise Linux High Availability solutions for SAP can help reduce both planned and unplanned downtime across scale-up and scale-out SAP HANA, SAP S/4HANA, and SAP NetWeaver environments.

These capabilities also support smoother hardware maintenance and more consistent operation of critical SAP services.

## Individual Impact

After completing RH445, participants will be able to provision, manage, and troubleshoot SAP HANA and SAP S/4HANA high availability clusters running on **Red Hat Enterprise Linux for SAP Solutions**.

Participants also develop practical knowledge of SAP high availability architectures, replication technologies, failover processes, and automation with Ansible.

## Recommended Next Courses

After completing RH445, participants can continue with the following courses:

- **Red Hat Enterprise Linux Diagnostics and Troubleshooting (RH342)**
- **Red Hat Services Management and Automation (RH358)**
- **Red Hat Enterprise Linux Performance Tuning (RH442)**

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## Prerequisites

Participants should meet the following requirements:

- Take the Red Hat skills assessment to determine whether the course matches your current skill level
- Have an **SAP S-User** account with download permissions
- SAP customers must have the appropriate software license to download required installers
- SAP Partners may use development and test licenses
- Installation software can be used for 90 days without a license
- Complete the **Red Hat Certified Engineer (RHCE) exam (EX294)** or demonstrate equivalent Linux and Ansible experience
- Complete **Red Hat Enterprise Linux High Availability Clustering (RH436)**

## Who Should Attend

This course is particularly suitable for:

- Red Hat Enterprise Linux administrators
- SAP system administrators
- IT professionals responsible for supporting mission-critical SAP deployments in high availability environments

## What You Will Learn

The course covers the following key areas:

- Installing SAP HANA and SAP S/4HANA on RHEL for SAP Solutions
- Configuring high availability clusters by using RHEL High Availability solutions for SAP
- Using RHEL System Roles and Red Hat Ansible Collections to automate SAP HA cluster setup
- Understanding the principal SAP high availability concepts and components that administrators must manage
- Performing Day 2 operational tasks
- Introducing troubleshooting practices
- Considering operating system upgrade requirements in SAP HA environments

## Training Outline

### Introduction

Learn the fundamental concepts involved in scaling SAP environments on Red Hat Enterprise Linux.

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## Introducing SAP Architecture

Explore the SAP product portfolio and understand how to plan SAP deployments on Red Hat Enterprise Linux.

## Explaining Red Hat Enterprise Linux for SAP Solutions

Learn what the RHEL for SAP Solutions offering includes and how it differs from a standard RHEL entitlement.

Explore the high availability components available on RHEL and their role in SAP environments.

## Explaining SAP HANA System Replication

Examine SAP HANA system replication and learn about scale-up and scale-out resource agents, multitarget replication, and failover with RHEL High Availability.

## Explaining SAP NetWeaver and S/4 High Availability

Explore system replication concepts for SAP NetWeaver and SAP S/4 environments.

Learn how S/4HANA and NetWeaver operate in highly available architectures, install the required resource agents, and understand failover behavior in these environments.

## Automating SAP Deployments with Ansible

Use Red Hat Enterprise Linux System Roles to automate deployments of SAP HANA, NetWeaver, and S/4 environments.

## Operation, Update, and Monitoring

Focus on the Day 2 operational activities required to maintain a highly available SAP environment.

Topics include updates, Pacemaker maintenance, monitoring, manual failover, acceptance testing, and verifying the status of the HA cluster.

These operational activities are essential for maintaining the integrity and availability of business-critical SAP services.