

Red Hat High Availability Clustering for SAP Solutions (RH445)

Duration: 5 Days Course Code: RH445

Overview:

Deploy SAP HANA on Red Hat Enterprise Linux for SAP Solutions in a high availability environment.

Learn how to deploy, protect, and scale SAP infrastructure with Red Hat Enterprise Linux for SAP Solutions.

High availability clustering can improve reliability, availability, and resilience of your mission-critical services, resulting in reduced downtime and easier hardware maintenance. Red Hat Enterprise Linux High Availability solutions for SAP help to reduce planned and unplanned downtime in scale-up and scale-out SAP HANA, SAP S/4HANA, and SAP NetWeaver environments.

This course teaches best practices for deploying SAP HANA and SAP S/4HANA in a high availability configuration.

In addition, you will discover how to efficiently automate deployments with Red Hat Ansible Automation Platform and Red Hat supported Ansible roles specific to SAP.

As a result of attending this course, you will be able to successfully provision, manage, and troubleshoot SAP HANA and S/4HANA high availability clusters that run on Red Hat Enterprise Linux for SAP Solutions.

Note: Starting January 2026 this course only exists in CR (classroom) if scheduled or Closed course modalities. No RHLS-Course for this course.

Customer can get access to the e-learning course content by purchasing a RedHat RHLS Standard subscription (access to the entire RedHat E-learning offering) - Contact us

Updated Jan2026

Company Events

These events can be delivered exclusively for your company at our locations or yours, specifically for your delegates and your needs. The Company Events can be tailored or standard course deliveries.

Target Audience:

Red Hat Enterprise Linux and SAP system administrators who need to support mission-critical SAP deployments in a high availability environment.

Objectives:

- After this course participants should be able to:
- Install SAP HANA and S/4HANA on RHEL for SAP Solutions
- Configure the high availability cluster by using RHEL HA solutions for SAP
- Use RHEL system roles and Red Hat Ansible collections for SAP HA cluster setup
- Describe SAP HA concepts and components to be managed
- Manage Day 2 operations, including an introduction to troubleshooting and OS upgrade considerations

Prerequisites:

- Students must have an SAP S-User with download permission
 - <https://blogs.sap.com/2021/03/09/learn-all-about-s-user-ids/>
 - SAP customers can download the installers if they have the license for the software. SAP Partners get dev and test licenses. The install software is good for 90 days without license (time-bombed).
 - Complete the Red Hat Certified Engineer (RHCE) exam (EX294) or demonstrate equivalent Linux and Ansible experience.
 - Follow Red Hat Enterprise Linux High Availability Clustering (RH436)
 - Internet access is required to download and license the SAP HANA Express Edition.
- Take Red Hat free assessment to gauge whether this offering is the best fit for your skills [Red Hat Skills Assessment](#)

Testing and Certification

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Follow-on-Courses:

- Red Hat Enterprise Linux Diagnostics and Troubleshooting (RH342)
 - Red Hat Services Management and Automation (RH358)
 - Red Hat Enterprise Linux Performance Tuning (RH442)
 - RH342 - Red Hat Linux Diagnostics and Troubleshooting
 - RH358 - Red Hat Services Management and Automation
 - RH442 - Red Hat Systems Monitoring and Performance Tuning
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Content:

Introduction

- Learn the basics of scaling SAP on Red Hat Enterprise Linux

Introducing SAP Architecture

- Learn about the products in the sap portfolio, and how to plan your deployment on Red Hat Enterprise Linux.

Explaining Red Hat Enterprise Linux for SAP Solutions

- Learn about the RHEL for SAP solutions offering, and how it differs from a standard RHEL entitlement. Learn about the components of high availability on RHEL.

Explaining SAP HANA System Replication

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

Explaining SAP NetWeaver and S/4 High Availability

- System replication with SAP NetWeaver and S/4, learn about the concepts of S/4HANA and NetWeaver in a Highly Available environment. Install the S/4 and NetWeaver resource agent. Learn about failover in these environments.

Automating SAP deployments with Ansible

- Automate deployments of HANA, NetWeaver, and S/4 with Red Hat Enterprise Linux System Roles.

Operation, Update, and Monitoring

- During this chapter we'll focus on the necessary Day 2 operations such as updates, pacemaker maintenance, and monitoring. Activities like manual failover, perform acceptance tests and check status on the HA cluster will be crucial to maintain integrity and high availability of your highly available SAP environment.
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Additional Information:

Official course book provided to participants

Further Information:

For More information, or to book your course, please call us on Head Office Tel.: +974 40316639

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