Streamline SAP S/4HANA migration

Migrate efficiently and reliably with Red Hat Ansible Automation Platform

Unlock automation ROI

According to research from IDC, Red Hat Ansible Automation Platform can help organizations realize a 3-year return on investment (ROI) of 668%, through automation that:[1]

▸ Instills greater agility and flexibility in IT operations.

▸ Improves reliability and scalability of IT and systems.

▸ Increases Day 2 efficiencies.

SAP migration is imperative

Your SAP landscape is the core of critical business operations. SAP HANA® and SAP S/4HANA® provide increased speed, scale, and innovation, as well as cloud capabilities, for your organization. To take advantage of new benefits and extend maintenance and support from SAP, you must migrate to SAP HANA and SAP S/4HANA by 2027.

Migrating to SAP S/4HANA is a long and complex process. You must create and correctly configure your target infrastructure, replicate data, test and validate your new setup, and redirect workloads to the new environment. Performing these steps manually can be time-consuming and error-prone, leading to delays, inconsistencies, inaccuracies, and potential downtime.

Automation can help you migrate more rapidly, efficiently, and reliably. With the right platform, you can automate most of the steps involved in SAP migrations. Red Hat® Ansible® Automation Platform can help streamline your migration to SAP S/4HANA and allow you to adopt and expand automation throughout your IT and SAP environment at your own pace.

Streamline migration with Red Hat Ansible Automation Platform

A single foundation for building and operating automation services at scale, Ansible Automation Platform delivers the tools and capabilities you need to streamline your SAP S/4HANA migration and automate your IT and SAP platforms. It combines a simple, easy-to-read automation language with a trusted, composable execution environment and security-focused sharing and collaboration capabilities.

Ansible Automation Platform offers a framework that helps you automate many aspects of your SAP and IT infrastructure, from servers and network devices to operating systems, applications, and security, across cloud environments. Through modules, it connects your existing tools and processes with a common language. Red Hat Ansible Automation Platform provides SAP-specific content that you can build into automation playbooks to accelerate and derisk migration scenarios.

Ansible Automation Platform has an agentless architecture that lets you introduce automation into your existing infrastructure, and includes tools to help you adopt automation with ease and optimize your automation content and use.

Accelerate SAP S/4HANA migration

Ansible Automation Platform can accelerate your migration to SAP S/4HANA and reduce associated migration downtime, through capabilities that allow you to:

▸ Programmatically provision and configure your target environment—including infrastructure and network components, operating systems, and applications—according to SAP HANA and SAP S/4HANA requirements.

▸ Connect technical and operational domain teams and encourage collaboration with cross-functional automation.

▸ Deploy consistently at pace and scale, on premise, in cloud, or at the edge.

▸ Efficiently deploy SAP workloads onto new infrastructure and platforms, and into diverse environments.

▸ Flexibly manage entire network and IT processes.

Organizations that use Ansible Automation Platform experience 68% faster deployment of new compute resources.[1]

Increase SAP environment reliability

Automating with Ansible Automation Platform can help you increase the reliability, consistency, and predictability of your SAP environment. It allows you to standardize infrastructure provisioning and configuration processes across on-premise, edge, and cloud environments, and automate error-prone manual tasks to improve accuracy and dependability.

Organizations that use Ansible Automation Platform experience 61% less unplanned downtime and better resilience.[1]

Improve workflows and strengthen security posture

Event-Driven Ansible, included with an Ansible Automation Platform subscription, provides event-driven automation capabilities that can help you automate time-consuming tasks and dynamically respond to changing conditions in your SAP environment.

Using Ansible Rulebooks, which provide conditional instructions for which actions should take place when a specific event takes place, Event-Driven Ansible automatically recognizes an event and executes the appropriate, predefined action.

Event-Driven Ansible allows you to:

▸ Reduce time spent on low-level tasks to free teams to focus on higher value projects.

▸ Improve time to resolution for issues and reduce downtime.

▸ Codify team expertise and minimize human error.

It can also help you strengthen your security posture. Event-Driven Ansible can automatically detect Common Vulnerabilities and Exposures (CVEs) and apply patches to affected systems or inventory, helping make sure that your SAP and IT infrastructure is safeguarded and in compliance.

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2   Chhabra, Naveen. "The Forrester Wave™: Infrastructure Automation Platforms, Q4 2024." Forrester, 25 Nov. 2024.

Overview   Streamline SAP S/4HANA migration

Deploy automation across your organization

Ansible Automation Platform includes all the tools needed to deploy automation across your entire organization, beyond your SAP infrastructure, providing you with capabilities to:

▸ Build from your migration automation to streamline infrastructure management and operation of your new environment.

▸ Connect and automate existing systems, tools, and applications at your own pace.

▸ Reduce tedious tasks to increase staff efficiency and free time for innovation and high-value projects.

Ansible Automation Platform includes access to Ansible Content Collections—modules, playbooks, plugins, roles, and other documentation that offer trusted, prebuilt content and guidance to help teams get started with automation more quickly. These collections include Red Hat Ansible Certified Content, which are collections built, supported, and maintained by Red Hat and our partners, and Ansible validated content, which provides expert automation guidance that is customizable for your use cases (validated content is not supported or maintained by Red Hat, but is delivered by trusted industry partners, and is digitally signed).

Organizations that use Ansible Automation Platform experience 36% development team productivity gains and a 38% increase in network management team efficiencies, and are 23% faster to market for new products and services.[1]

Create and maintain automation content more efficiently

Ansible Automation Platform also includes Red Hat Ansible Lightspeed, a generative AI (gen AI) service that helps teams of all experience levels efficiently create and maintain Ansible Automation Platform content to accelerate IT automation.

Ansible Lightspeed lets users input prompts using natural language (eliminating the need for in-depth automation experience), and then interacts with IBM watsonx foundation models to produce code recommendations, allowing your teams to convert their subject matter expertise into trusted, reliable Ansible code that can be used to support your SAP and IT infrastructure.

Integrate with other Red Hat solutions for SAP

As part of a partnership with SAP for over 25 years, Red Hat offers a portfolio of solutions that help organizations using SAP optimize their SAP environments and operations, and prepare for the future.

Ansible Automation Platform integrates with these solutions, including Red Hat Enterprise Linux® for SAP Solutions, so you can build automation at scale and with confidence, and benefit from a consistent experience.

Benefit from collaborative engineering and integrated support

Continuous collaboration between Red Hat and SAP means you can rely on comprehensive and integrated support during your migration, and beyond.

Red Hat and SAP engineers work alongside each other in the SAP LinuxLab—an open source community environment in which SAP and SAP partners collaborate to address their joint customers' needs—to make sure that SAP solutions are tested, validated, and supported on Red Hat platforms.

Plus, Red Hat and SAP customer support ticketing systems are integrated, giving you a single point of contact for support issues and streamlined resolution of incidents.

Learn more

Automation can ease your migration to SAP HANA and SAP S/4HANA. Ansible Automation Platform provides the tools you need to boost migration speed, efficiency, and reliability while laying a foundation for automating Day 2 operations. Learn more about automating your SAP migration at redhat.com/sap.

About Red Hat

Red Hat helps customers standardize across environments, develop cloud-native applications, and integrate, automate, secure, and manage complex environments with award-winning support, training, and consulting services.

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