

# Red Hat solutions for SAP

Making SAP's Intelligent Enterprise smarter

Red Hat helps organizations create scalable, flexible, and intelligent infrastructure that sets them up for a future of innovation as an SAP-powered digital enterprise.

- Trusted as the world's leading enterprise Linux platform by more than 90% of Fortune 500, including SAP.<sup>1</sup>
- One of the first companies to work with Google on Kubernetes, even prior to launch, Red Hat has become the second leading contributor to the Kubernetes upstream project.

From enterprise resource planning and finance to SAP intelligence technologies like artificial intelligence (AI), machine learning (ML), Internet of Things (IoT), or the SAP business solution your company is using, Red Hat can help on your journey toward becoming an intelligent enterprise.

If your business depends on traditional SAP environments, the 2027 deadline for migration to SAP HANA® or SAP S/4HANA® presents a major undertaking. Those applications as well as every new SAP application since 2005 run on Linux®. Since becoming one of the first Linux distributions to run SAP more than 20 years ago, Red Hat has worked with SAP and its customers to innovate in the datacenter and beyond.

Red Hat is an open source company for SAP HANA that shows a clear path from the operating system (OS) through automation to containerization. The Red Hat® portfolio can help you handle the complexity of migration, make your datacenter efficient, simplify hybrid IT, power the intelligent edge, and allow you to generate new business insights from big data.

## Solid foundation and smart management

Red Hat solutions provide robust support for your SAP S/4HANA migration. [Red Hat Enterprise Linux for SAP Solutions](#) is SAP certified for integration with SAP S/4HANA. It provides a **highly available** foundation to promote uptime and availability of business-critical systems like SAP. Features like Red Hat Enterprise Linux High Availability solutions for SAP HANA and SAP S/4HANA, live kernel patching, or in-place upgrades are the foundation to achieve [near-zero-downtime SAP production deployments](#).

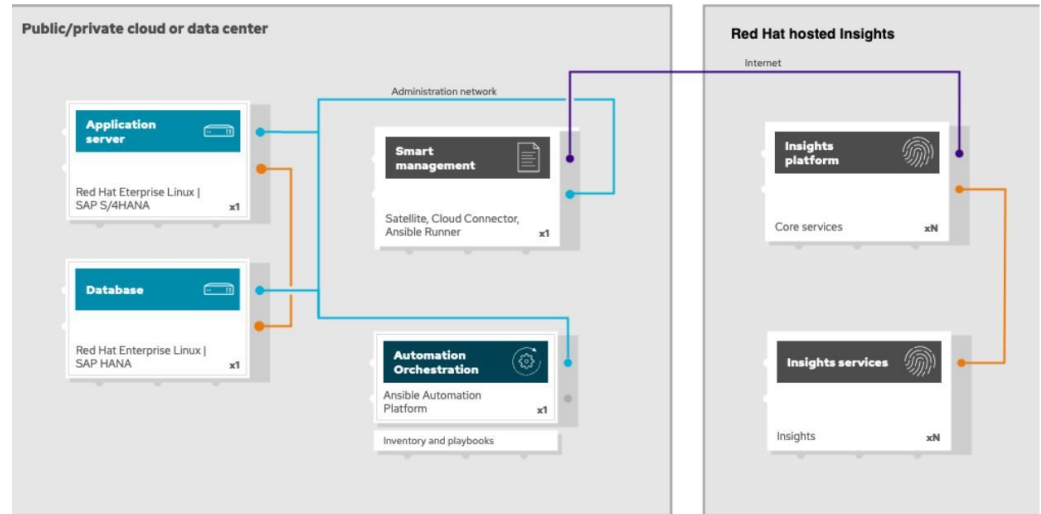
Red Hat Enterprise Linux for SAP Solutions increases reliability during migration, new deployments and day-two operations while helping customers adopt engineering practices like Infrastructure as Code.

[Red Hat Satellite](#) and [Red Hat Insights](#) provide management, proactive monitoring, and automated remediation for your SAP digital core to make hybrid IT achievable. Included as part of the Red Hat Enterprise Linux for SAP Solutions subscription, Satellite and Insights help the customer run efficiently, enhance security, and stay compliant with various standards while using predictive analytics to **access and monitor configuration issues and reduce downtime**.

[Red Hat Ansible® Automation Platform](#) allows SAP customers the ability to automate SAP deployments with [Red Hat supported Ansible roles](#) for SAP and **build and operate automation for the whole organization**.

<sup>1</sup> Red Hat client data and Fortune 500 list, June 2018.

- Extend your knowledge base with a multitude of resources dedicated to SAP from both Red Hat and IBM Services.
- Modernize your IT with a partner of more than 20 years that continually collaborates and innovates with SAP around multicloud, open source, and Kubernetes technology.
- Collaborate with an institution that has demonstrated strong financial stability, partnerships, and technological achievements.



**Figure 1.** Smart management for SAP blueprint

## Agile integration and cloud-native development

*“Red Hat is a strategic and valuable open source partner of SAP. Their technology leadership in Linux, container orchestration, and API management is helping to drive new co-innovation opportunities between us and our joint customers. We have recently completed defining a new strategic alliance with Red Hat that expands the platform offerings and enhanced support offerings surrounding their flagship operating system: Red Hat Enterprise Linux for SAP Solutions.”*

### Jon Dorrington

Vice President, Global Business Development and Global Ecosystem, SAP

[Red Hat Integration](#) provides capabilities for agile integration with SAP’s digital core for custom applications and data, offering new ways to extend customers’ SAP application functionality. Red Hat Integration fosters sharing and reuse of services via APIs, helping organizations treat APIs as products with appropriate governance.

Red Hat Integration allows customers to manage the entire API lifecycle through [Red Hat 3scale](#) from design to implementation to API retirement, including SAP. This fully functional API management platform is [ranked by Gartner](#) as a leader in this space<sup>2</sup> and customers can benefit from its full-featured developer portal. In addition, Red Hat 3scale supports the OpenAPI specification and includes capabilities for importing APIs from SAP API Business Hub.

[Red Hat OpenShift® Container Platform](#) helps you develop, build, and deploy end-to-end business processes across hybrid cloud that can scale automatically. It lets cloud-native developers with no advanced business application programming (ABAP) experience to build applications and integrations using modern tools. Red Hat OpenShift supports digital transformation projects by providing different developer teams access to the SAP functionality they need to develop new SAP solutions.

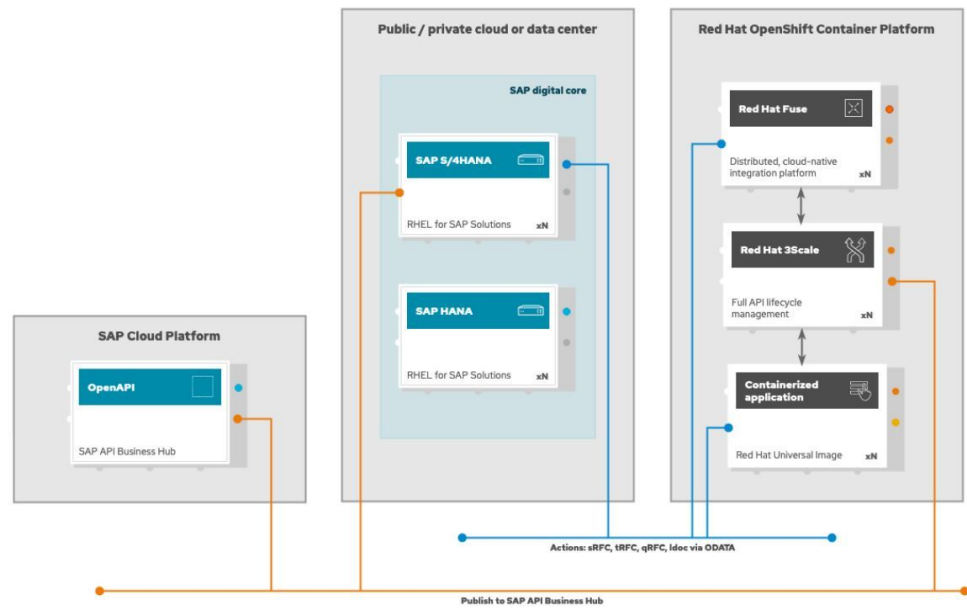
Combining these technologies forms a powerful architecture that allows customers to:

- Decouple the core with API management.
- Promote faster development for new functionalities.
- Develop new functions as microservices.
- Run microservices in containers on hybrid cloud deployments.
- Connect non-SAP systems to the core.

<sup>2</sup> Malinverno, Paolo, and Mark O’Neill. “Gartner Magic Quadrant for Full Life Cycle API Management,” 2018.

*"Over the years, Red Hat has pivoted from being a purely Linux provider to offer a supported, comprehensive portfolio that meets our requirements. As a result, our partnership has continued to grow, and we're confident running our critical applications on Red Hat's platform."<sup>3</sup>*

**Marc Frankenhauser**  
 Director of Commercial Management Infrastructure,  
 Sunrise Communications



**Figure 2.** Side-by-side extensibility blueprint

## Building intelligent and innovative solutions

Combining data-driven innovation and intelligent processes with data orchestration and ML allows customers to generate higher business value from their data. Red Hat offers both a Kubernetes platform and a container storage solution, integrated and tuned for hybrid cloud scenarios to run SAP Data Intelligence, offering all the benefits of SAP's AI and ML capabilities.

[Red Hat OpenShift Container Storage](#) provides agility, scalability, and portability across hybrid cloud and multicloud environments, resulting in lower IT costs. It removes manual tasks to claim storage for workloads that can be provisioned and managed automatically, so developers and data scientists can focus on tasks that add value to the company. Red Hat OpenShift Container Storage allows data scientists and those who support them to deploy and manage cloud-portable storage on demand and satisfy storage requirements from SAP Data Intelligence.

Red Hat OpenShift Container Platform and Red Hat Integration solutions let SAP customers integrate IoT infrastructure with SAP Data Intelligence. In highly distributed environments, communication between services running on edge sites and cloud needs special consideration. [Red Hat AMQ](#) messaging capabilities support the communication patterns needed for edge computing use cases and can solve demanding problems. Red Hat messaging, combined with a variety of cloud-native runtimes and tools like [Red Hat Fuse](#), offers a powerful foundation for building edge-native services.

[Red Hat Decision Manager](#) enables the intelligent edge by executing against streaming IoT data using relevant business rules on the gateway. It can also sort through unnecessary messages received from devices and reduce traffic passed to SAP Data Intelligence for AI/ML processing.

*"While we want to be as self-sufficient as possible, the best way to optimize a solution is by working with, and learning from, the solution provider. Having Red Hat working alongside us, speaking the same language, was essential while working on such critical systems."<sup>4</sup>*

**Konstantin Zelenkov**  
 Chief Technology Officer,  
 JSA Group for Metalloinvest

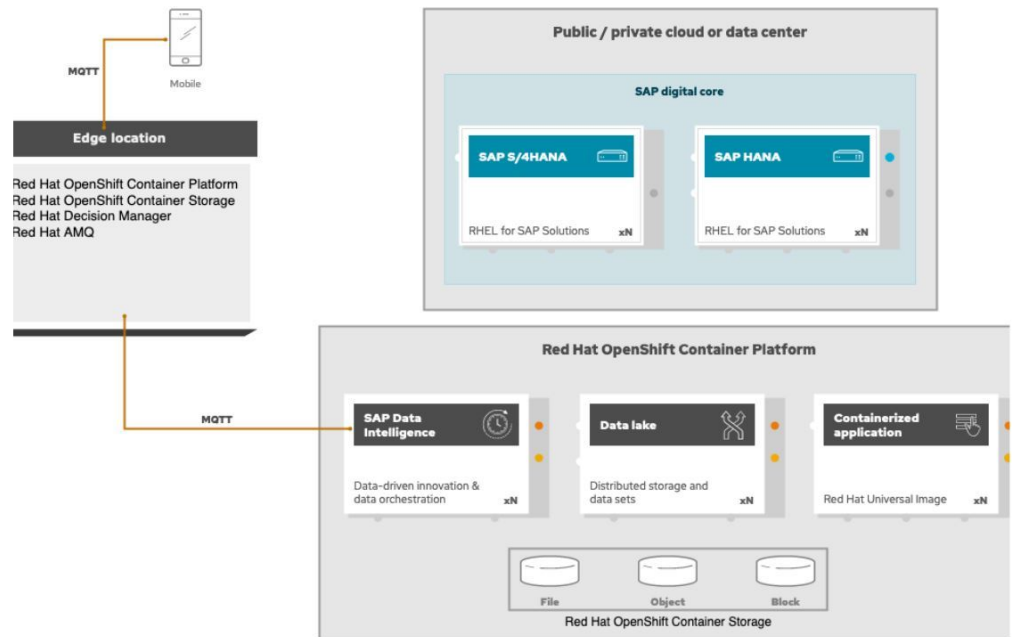
*"It feels like Red Hat has a stake in our project. Red Hat isn't selling us a solution, they're selling us success."<sup>5</sup>*

**Vince Zuk**  
 Director of Enterprise Infrastructure Architecture,  
 Mohawk Industries

<sup>3</sup> Red hat case study. "Sunrise Communications Achieves Competitive Gains with Red Hat," 2018.

<sup>4</sup> Red Hat case study. "Metalloinvest Prepares SAP Environment for Industry 4.0 with Red Hat," 2019

<sup>5</sup> Red Hat case study. "Mohawk Industries Harnesses the Power of Data with SAP HANA and Red Hat," 2017.

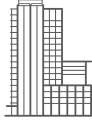


**Figure 3.** IoT case blueprint

## Engineering and support

The SAP Technical Alliance is a group of engineers on the Customer Experience and Engagement Global Partner Success team dedicated to the certification, testing, documentation, and support of SAP on Red Hat solutions. The team aligns and prioritizes SAP-facing work and resources to increase Red Hat's SAP footprint and market share.

The team is working out of the SAP Linux Lab in Walldorf, Germany with SAP and other SAP partners. There, they can build joint solutions and provide support for customer issues in a bigger community.



### About Red Hat

Red Hat is the world's leading provider of enterprise open source software solutions, using a community-powered approach to deliver reliable and high performing Linux, hybrid cloud, container, and Kubernetes technologies. Red Hat helps customers integrate new and existing IT applications, develop cloud-native applications, standardize on our industry leading operating system, and automate, secure, and manage complex environments. Award winning support, training, and consulting services make Red Hat a trusted adviser to the Fortune 500. As a strategic partner to cloud providers, system integrators, application vendors, customers, and open source communities, Red Hat can help organizations prepare for the digital future.

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## Red Hat Consulting Services for SAP

Red Hat Consulting works with organizations to create the proper IT foundation for their critical business operations. Red Hat Consulting aligns to the different steps of the **SAP journey**.

- **Discovery.** A one-day session with relevant teams to understand the customer's as-is with their SAP ecosystem.
- **Navigate.** A five- to ten-day engagement based on DevOps practices where the customer will find out how the SAP journey to the intelligent enterprise applies to their own use cases.
- **Pilot.** During the pilot phase, a detailed architecture and implementation plan is elaborated and applied to the systems identified during the Navigate phase. A test plan is also created and followed so that the pilot can be implemented by the customer.
- **Integrate.** The purpose of this engagement is to define how the workflows created in the Pilot phase can be integrated holistically into the customer's SAP ecosystem so that they can be used repeatedly and scaled out.
- **Accelerate.** In this phase, workflows are implemented at scale so they can be onboarded and integrated into the SAP ecosystem.
- **SAP Optimize.** The final phase is already present during the Integrate and Accelerate stage. The SAP Optimize phase incorporates continuous integration and delivery (CI/CD) methodologies and feedback from the customer's teams to ensure the SAP ecosystem performs at its best.