

# RISE with SAP on IBM Power Virtual Server

Designed for faster and nondisruptive  
SAP ERP modernization



## Highlights

Accelerates time to value  
with faster migration

Offers servers recognized  
for high availability  
and security

Eases cloud ERP  
migration through an  
IBM investment program

Helps achieve  
operational efficiency  
with granular scaling

RISE with SAP helps you modernize your ERP landscape and migrate it to the cloud. It combines outcome-driven services, cloud ERP on SAP S/4HANA® and other key platforms that can help transform the enterprise operating model. However, transitioning to a cloud ERP solution is complex. According to a 2024 ASUG study, nearly 46% of respondents using SAP S/4HANA reported that the multistep migration process and existing business complexities made the transformation more time-consuming and resource-intensive than expected.<sup>1</sup>

To help accelerate your move to cloud ERP, SAP® will offer RISE with SAP on IBM® Power® Virtual Server. The solution is planned to be available in second quarter of 2025. Power Virtual Server helps you seamlessly migrate to RISE with SAP by keeping your applications and databases on the same hardware architecture you currently use. This approach results in a faster and more seamless transition to RISE with SAP on a highly resilient and secured cloud platform.

### Accelerates time to value with faster migration

The average time to migrate to SAP S/4HANA is 1.5 years.<sup>1</sup> Moving SAP ERP workloads from IBM Power on-premises to Power Virtual Server helps significantly reduce the risk profile. It also helps reduce the migration time by up to 15%–25% compared to the heterogeneous move from Power to x86 environments in other clouds.<sup>2</sup> The offering is [designed to move SAP S/4HANA from IBM Power Systems on-premises to cloud within 90 days](#).<sup>3</sup> Faster migration happens due to the architecture consistency between both environments and the computing performance of IBM Power processors.

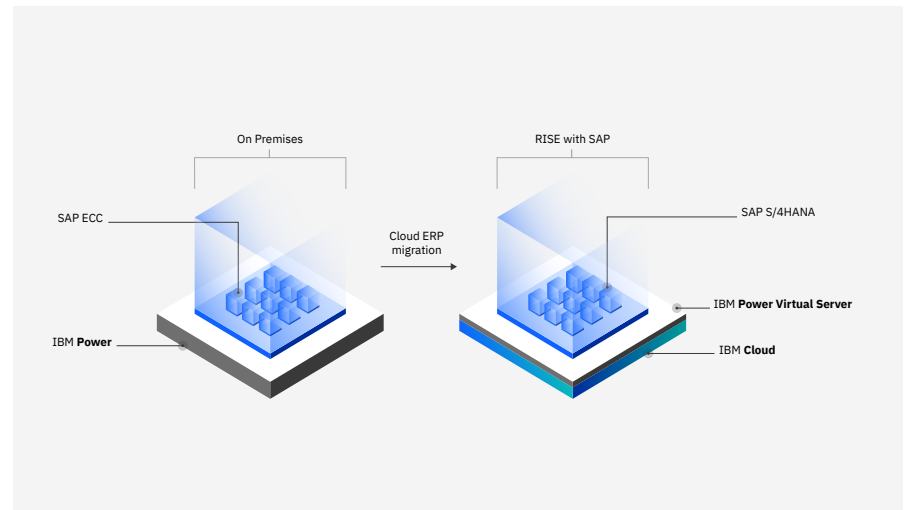


Figure 1. Accelerate the transition to RISE with SAP on IBM Power Virtual Server

Additionally, RISE with SAP on IBM Power Virtual Server customers and IBM Business Partners will also have access to IBM Transformation Suite for SAP Applications. A solution that bundles software and services from IBM and industry-leading suppliers to accelerate the SAP landscape assessment, data and code migration, code analysis and testing.



### **Offers cloud servers recognized for high availability and security**

SAP ERP platforms execute critical financial and operational processes. When you move these platforms to cloud, ensuring high system availability and robust data protection is essential. The built-in redundancy and security of IBM Power servers are designed to run business-critical applications that handle sensitive data. In the 2023 ITIC Server Reliability report, 93% of 1,900 C-level executives across 37 vertical market segments gave IBM Power a 99.9999% or greater availability rating.<sup>3</sup> Among all SAP-certified servers, this is the top availability rating.

The hypervisor in Power servers, IBM PowerVM®, is built into the firmware of the infrastructure stack. This deep integration helps deliver superior isolation, resulting in at least 6 times fewer common vulnerabilities and exposures (CVEs) reported by NIST since 2020 compared to SAP-certified clouds using other hypervisors.<sup>4</sup> Additionally, IBM Power10 servers include transparent memory encryption to protect SAP HANA data from unauthorized access, even if someone has physical access to the server.

After moving SAP ERP data to Power Virtual Server, you can use the IBM Cloud® platform services to build AI-powered surround applications connecting SAP and select non-SAP data sources. Whether your data resides in Power Virtual Server on IBM Cloud, SAP BTP, or on-premises, you have the flexibility to run AI solutions close to where the data resides. You can do this by combining IBM Granite™ models, SAP models, your proprietary models, and open-source models on platforms like IBM watsonx™ and SAP BTP.

### **Eases cloud ERP migration through an IBM investment program**

Migrating SAP workloads to the cloud is more complex than moving general-purpose workloads, with challenges such as lengthy timelines, high costs and integration across SAP and non-SAP applications. To address these issues, IBM is launching a [customized investment program for RISE with SAP on Power Virtual Server](#). The program supports early-stage technical assessments by system integrators or partners. It also facilitates the transition of non-RISE (SAP and non-SAP) workloads to the cloud and assists in executing cloud migration processes.

**Helps achieve operational efficiency with granular scaling**

As you scale the SAP landscape in the cloud, Power Virtual Server offers yet another advantage with the tailored option for RISE with SAP. Typically, in other cloud platforms, the memory increments across certified profiles are much higher than 1 TB as SAP HANA size grows greater than 6 TB. However, with all virtualized instances on Power Virtual Server you can access a granular average memory increment of 1TB and can scale up to 32 TB in a single node and scale out up to 128 TB in four nodes. This feature helps ensure you don't have to unnecessarily provision systems with more capacity or performance than needed, thereby removing additional costs and simplifying daily operations for running SAP S/4HANA.

For businesses running their SAP landscape on Power servers, IBM Power Virtual Server offers a fast and less disruptive path to RISE with SAP. It helps accelerate cloud ERP modernization with architecture consistency between on-premises and cloud environments. The proven reliability and security of the Power platform extended to cloud enables you to continue building and running business-critical applications with trust. Additionally, the customized investment program helps ease the transition to RISE with SAP on Power Virtual Server.

To learn more about RISE with SAP on IBM Power Virtual Server, contact your IBM representative or IBM Business Partner or visit [ibm.com/cloud/rise-with-sap?contactmodule](https://ibm.com/cloud/rise-with-sap?contactmodule)

1. The State of SAP S/4HANA Adoption: Trends, Successes, and Challenges, ASUG Research, 28 July 2024.
2. Up to 15-25% in Power8 or newer generation systems based on IBM's blinded anecdotal feedback from actual customer migrations.
3. Estimate based upon internal IBM modeling of onboarding customers in an SAP landscape when moving SAP S/4HANA from Power on-premises to Power Virtual Server assuming the right level of customer collaboration around network integration and testing. ITIC 2023 Global Server Hardware, Server OS Reliability Report, Information Technology Intelligence Consulting, August/September 2023.
4. According to NIST vulnerability database records (24 November 2024), since 2020, there have been 6 times fewer CVEs in IBM PowerVM compared to hypervisors in other SAP-certified clouds.

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