# RISE with SAP on IBM Power Virtual Server

## Designed for faster and nondisruptive SAP ERP modernization

**Highlights**

Eases cloud ERP migration through an IBM investment program

Accelerates time to value with faster migration

Offers cloud servers recognized for high availability and security

Enables seamless integration with SAP Business Warehouse in SAP Business Data Cloud

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 involves a complex, multistep migration process, and existing business complexities make the transformation more time-consuming and resource-intensive than expected.[1]

There are over 10,000 customers running SAP application on IBM Power servers. To help accelerate their move to cloud ERP, SAP® is offering RISE with SAP on IBM® Power® Virtual Server. IBM 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 secure cloud platform.

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

Transitioning SAP workloads to the cloud introduces an added layer of technical intricacy compared to standard workloads, largely because of tightly coupled SAP and non-SAP integrations. These interconnected systems require careful coordination, which can influence project duration, architecture decisions, and overall cost. To address these issues, IBM launched 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.

## Accelerates time to value with faster migration

The average time to migrate to SAP S/4HANA is 1.5 years.[1] 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.[2] The offering is designed to move SAP S/4HANA from IBM Power systems on-premises to cloud within 90 days.[3] Faster migration happens due to the architecture consistency between both environments and the computing performance of IBM Power processors.

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.

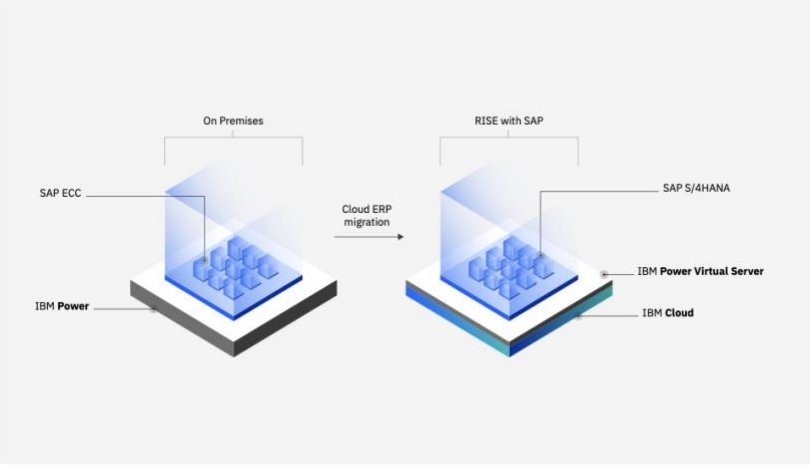


Figure 1. Accelerate the transition to RISE with SAP on IBM Power Virtual Server

## Offers cloud servers recognized for high availability, security and AI

SAP ERP platforms execute critical financial and operational processes. When you move these platforms to the 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 99.999999% or greater availability rating.[3] Among all SAP-certified servers, this is the top availability rating.

After moving SAP ERP data to IBM 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 creating a unified, intelligent layer that leverages both internal and external data. Additionally, you can integrate with tools like SAP Business Data Cloud (BDC) to augment your ERP data with curated external datasets, further enhancing

analytics, predictive insights, and decision-making capabilities."

With watsonx, users running SAP Cloud ERP on IBM Power Virtual Server can build agents to automate finance, manufacturing, procurement and supply chain workflows that require data from both SAP and non-SAP data sources. Watch the demo to learn more.

### Achieves operational efficiency with granular scaling

As you scale the SAP landscape in the cloud, IBM 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.

### Provides expert guidance to accelerate and de-risk the journey to RISE business transformation

The RISE with SAP on IBM Power Virtual Server Center of Excellence (CoE) provides end-to-end guidance to help ensure a smooth SAP migration. It supports system integrators and clients with migration oversight and technical advisory from planning through cutover, aligned to PowerVS best practices. After migration, the CoE assists with platform-specific needs outside SAP's scope, such as network partitioning and gateway configuration—combining SAP and PowerVS expertise to enable a secure, predictable, and efficient transition.

### Enables seamless integration with SAP Business Warehouse in SAP Business Data Cloud

Many enterprises rely on SAP BW as the analytical foundation for operational reporting, planning, and decision support. As SAP advances its data strategy toward SAP BDC, IBM Power Virtual Server provides a future-ready, flexible platform for customers to modernize at their own pace while protecting previous investments.

IBM Cloud provides an ideal landing zone for SAP BW – which needs to be close to the S/4HANA system. Integration toother SAP BDC components like Datasphere is also supported. This hybrid approach allows organizations to modernize SAP BW progressively, combining SAP's BDC capabilities with the proven reliability and scale of IBM Power.

By supporting SAP BW and SAP BW/4HANA, as part of SAP's Business Data Cloud strategy, IBM Power Virtual Server strengthens the overall value of RISE with SAP on IBM Cloud and enables a complete, future-proof SAP analytics and SAP AI foundation.

### Get Started

To learn more about RISE with SAP on IBM Power Virtual Server, visit the product page, connect with your IBM representative or IBM Business Partner, or go to https://www.ibm.com/products/cloud/sap?schedulerform=

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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