

# Power Week 2025

#pw2025

18 - 19 - 20 novembre 2025

IBM Innovation Studio Paris

S20 – Understanding RISE with SAP on IBM Power Virtual Server and Surround Workloads

18 novembre 14:45 - 15:45

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IBM

common  
FRANCE

Power Week

18 -19 - 20 novembre 2025



01 Why and What is RISE with SAP

02 Why RISE with SAP on IBM Power Virtual Server

03 Surround Applications

# 01 RISE with SAP

Why the move, and what is it?



“The greatest danger in times of turbulence is not the turbulence; it is to act with **yesterday’s logic.**”

Peter Drucker



# Current State vs Future State



**RISE with SAP is a guided journey** containing outcome-driven services, Cloud ERP, and platforms to rethink your operating model

- **A next-generation** partnership model that simplifies technology consumption
- **An intelligent**, best-in-class ERP with a cleaner core
- **A scalable**, secure, and built-for-future innovation platform
- **An operating** model that continuously discovers and realizes value for the business



### Outcome-Driven Services

World-class cloud operations organization, standard Adoption Framework, Reference Architecture, Single SLA, Security framework and responsibilities, compliance services, application monitoring and incident management



### Leading Edge Business Capabilities

SAP S/4HANA Cloud, AI-embedded business processes, readiness to consume



### Business Platform and Analytics

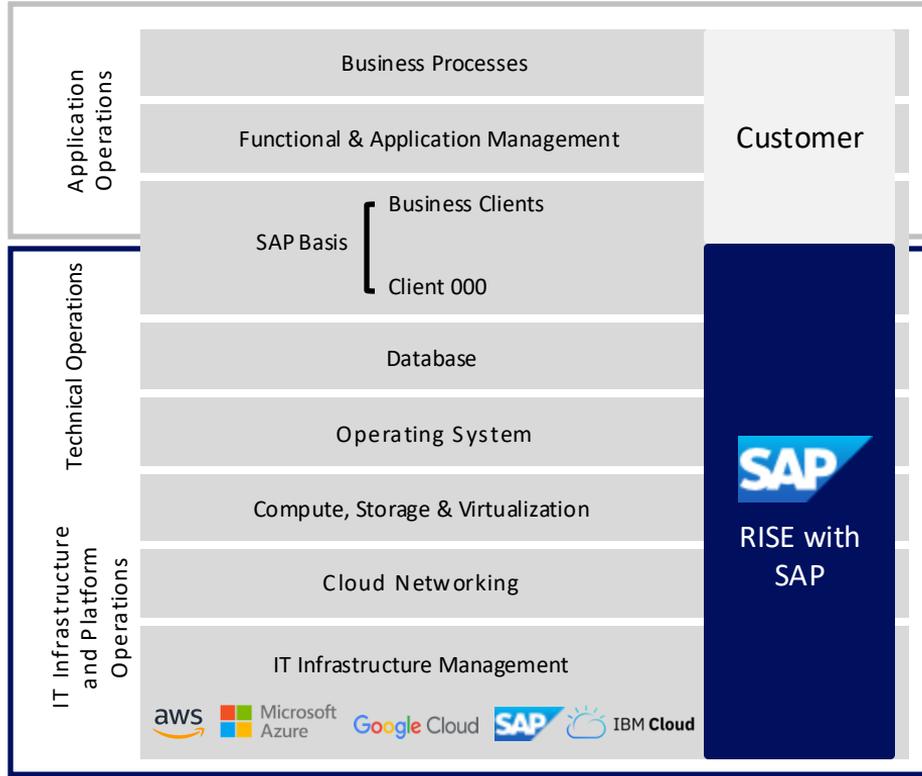
Business Technology Platform, Analytics, SAP Build, and Signavio



### Transformation Advisory

Customer Value Journey and Named Resources

# SAP Cloud ERP Private Edition



## Customer is responsible for;

- **Functional Application Management and Configuration**
- **Application Development, Integration and Extension**
- **Application Change Management**
- **Application Security, User and Roles**
- **Application Performance and Monitoring**
- **Test Execution, Release Planning and Management**
- **Application Basis Management**

SAP Optionally offers on-demand outcome oriented services via Cloud Application Services (CAS)

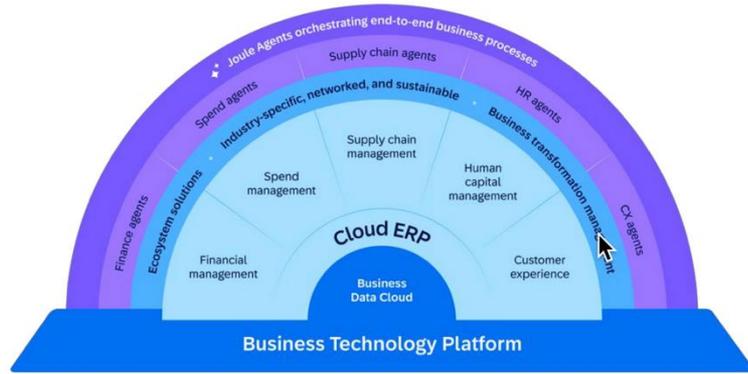
## SAP provides Infrastructure and Technical Managed Services

Embraces all elements to run SAP Solutions at maximum availability. Technical Managed Services as defined in [Roles & Responsibilities](#) document:

- **Service Management**
  - Resources for operational support & engagement planning
  - Account Management, Incident Management, Reporting, Capacity Management
- **Security Management**
  - Landscape security, Network Security, OS & Database Security, Antivirus & Antimalware, XDR, Data Encryption, Access Checks/Audits, Hardening, Event Detection and notification
- **\*SAP Business Continuity**
  - HA, Disaster Recovery, DR Testing, Backup/Recovery
- **SAP Technical Basis Operations**
  - Installation, Monitoring, Troubleshooting – Incident Management Level 2 and 3, Patch Management (SAP Kernel and Support Packs), Housekeeping, Homogeneous System Copy
- **SAP DB Management**
  - Installation, DB space management, revision management, security management, HW configuration management, Health check services, system monitoring, capacity management
- **OS Management**
  - Installation, Monitoring, patching, updates, and maintenance of the specific OS
- **Infrastructure Operations Management**
  - Hyperscaler management, DNS integration, storage, network and server provisioning and management, monitoring, patching, connection setup to other SAP cloud solutions such as BTP

\* Business Continuity services for IBM Cloud are being developed and are on the CTO roadmap

# SAP Business Suite | The future of enterprise management



Our **AI-First and Suite-First Strategy** is to help the world **run better** and improve people's lives by **bringing out the best** in every business.

We collaborate with our customers on their tailored case for cloud, supporting them in their due diligence towards the SAP Business Suite.

## One Destination

A singular north star architecture delivered through the SAP Business Suite, enabling customers to refactor their operating model for persistent innovation through a cloud delivered estate.

## Two Journeys

**RISE with SAP** and **GROW with SAP** providing tailored methodological based journeys to cost and risk manage our customers journey to Cloud ERP and the SAP Business Suite leveraging standardized frameworks, an integrated toolchain and guided end-to-end engagement model across the domains of Business Value, Architecture and Process.

## Three Core Differentiating Layers

Providing a seamlessly integrated system of applications, data and AI that connects and optimizes every part of our customers business operations and end-to-end processes.

### 1 Destination



SAP Business Suite

### 2 Journeys



### 3 Core differentiating layers

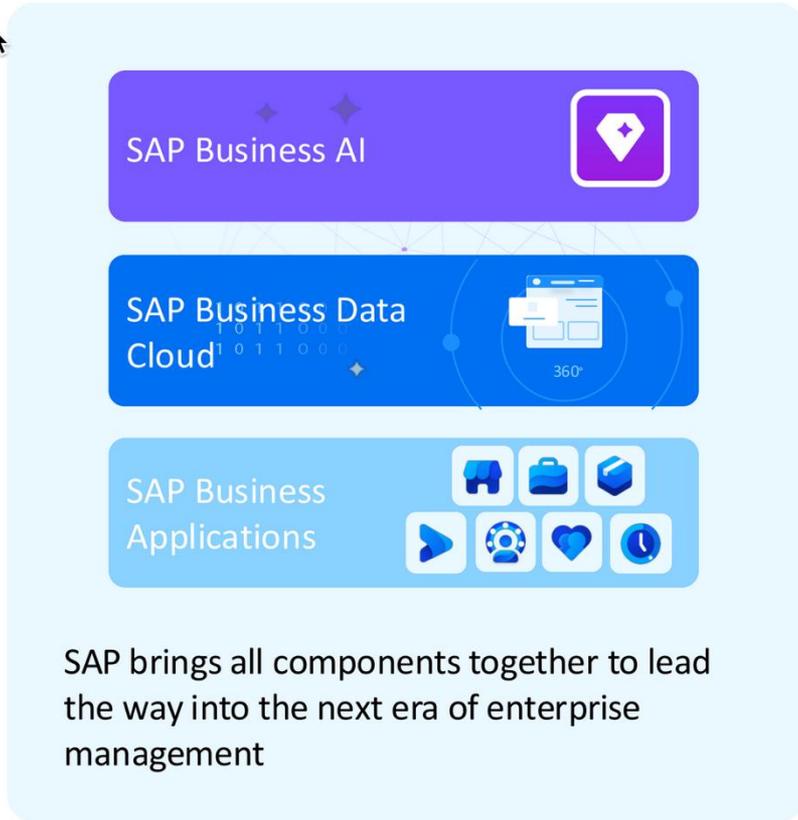


- Standardized framework
- Leveraging an integrated toolchain
- Guided through an end-to-end engagement model

- ★ Business Value
- 🏗️ Target Architecture
- Business Process



# Three Core Differentiating Layers | Applications, Data and AI



## Unrivalled AI

- Introduce AI as the new UI:** Enhance user experience with intuitive and persona-based AI that guides you in every interaction while delivering unmatched outcomes, at scale.
- Accelerate Cloud Transformation:** Supercharge your SAP journey with AI-powered tools that accelerate your move to the cloud, fast and efficiently.
- Innovate with Impact:** Apply your customer and insights like never before with advanced AI agents collaborating across the entire enterprise and generative AI that understands the context of your business.

## Unmatched Data

- Unleash Transformative Insights:** Make faster, smarter decisions with business-ready data and insights grounded in industry-standard best practices.
- Connect All Your Data:** Harmonize all mission-critical data with an open data landscape and give a complete, accessible view of the organization.
- Foster Reliable AI:** Ensure data across applications and operations is functional for generative AI that is reliable, responsible, and relevant.

Business AI interface showing Insight Apps, Business Data Fabric, and various data products and models.

## Unparalleled Applications

- Comprehensive:** Power end-to-end business processes with the most comprehensive, integrated portfolio of applications.
- Extensible and integrated:** Easily connect and extend applications with generative AI powered development, automation, and integration solutions.
- Industry-specific:** Tailored solutions for all industries, built to meet unique business needs.

Business Technology Platform interface showing various application modules like Procure to pay, Hire to retire, Lead to cash, and Record to report.

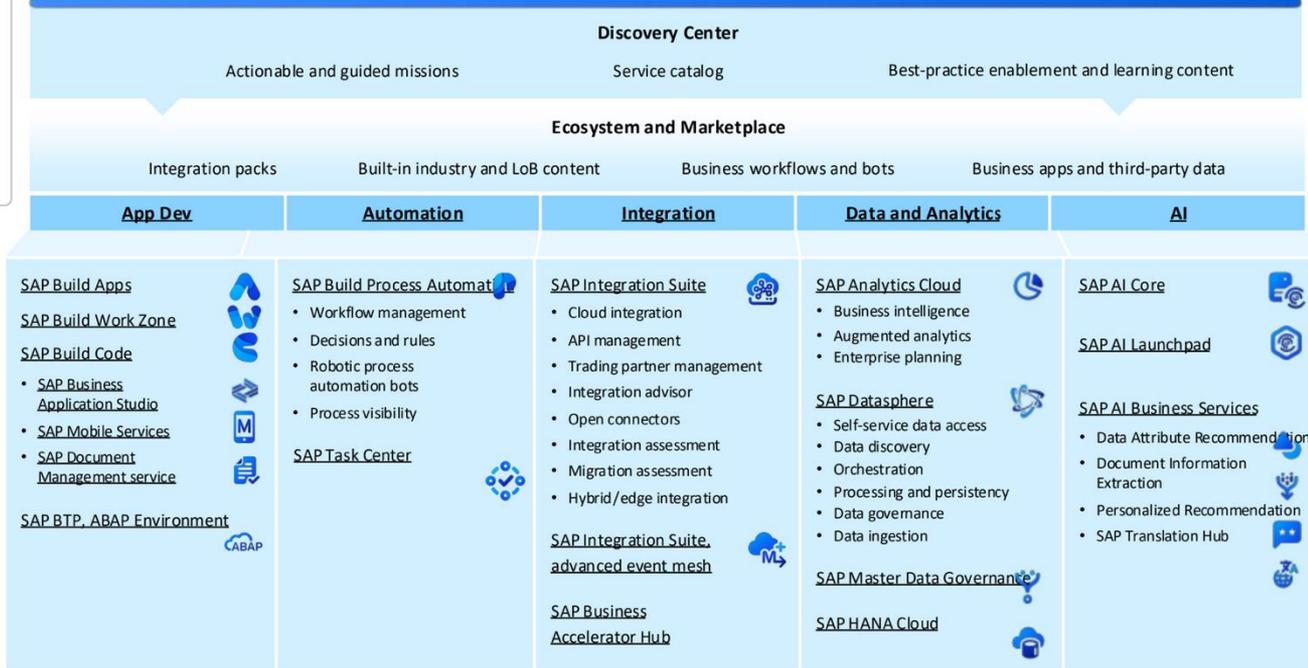
## Business Technology Platform

### Enterprise readiness with holistic lifecycle management

- Change and deployment management
- Technical ops automation
- Alerting
- Smooth integration option into existing application lifecycle management processes

### Enterprise security services and hybrid identity and access management

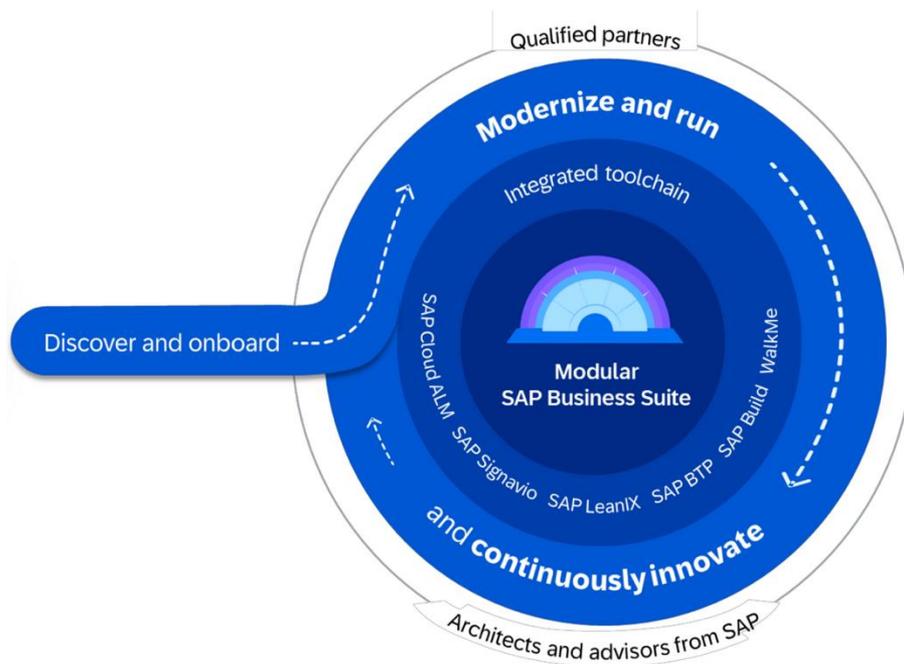
- Cloud identity services
- Risk and compliance
- Secure development



Building your innovation plane

→ Learn more  
SAP BTP Innobytes – Monthly innovation highlights

# Achieving Persistent Innovation | SAP applications and tools to support your transformation and innovation journey in the cloud



## Clean Core Mindset

## SAP Business Technology Platform

## SAP Business Transformation Management (BTM) Tools

- SAP Lean IX
- SAP Signavio
- WalkMe

## Cloud ALM

## Tricentis Testing

## SAP4me

# 02 Why RISE with SAP on IBM Power Virtual Server

High Level View



# SAP and IBM

For over 50 years of ensuring round-the-clock business operations, while safeguarding sensitive data

50+

Years of partnership across infrastructure and consulting solutions

10,000+

Customers run SAP landscape on IBM Power servers

Best Run SAP

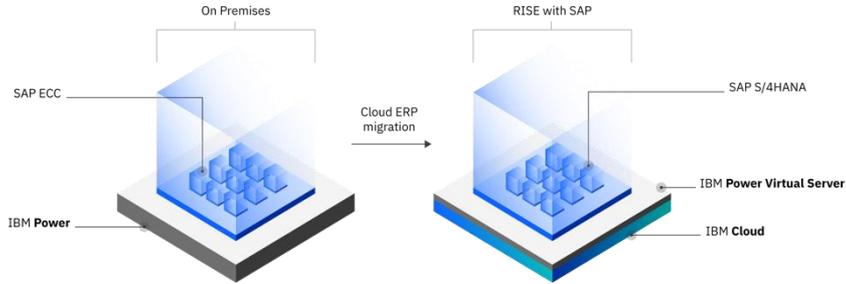
IBM's SAP landscape on IBM Cloud is one of industry's largest RISE deployments

40+



2024 SAP Business AI Customer Value creation	2024 Industry cloud partner	2022 Customer Excellence Award	2022 Cloud Business Transformation Delivery Excellence	2021 Integrated delivery partner	2020 Partner Managed Cloud	2020 NA Industry services partner excellence award
2019 Integrated Delivery Partner of the Year	2018 SAP Global Partner of the year - Infrastructure	2017 SAP North America Value Assurance Partner of the Year	2017 SAP North America Platform Reseller of the Year	2015 SAP HANA Adoption Partner of the Year	2014 Global Value-Added Reseller of the Year	2014 Quality Partner of the Year
2013 Database and Technology / SAP HANA Co-Innovation Partner of the Year	2013 VAR/Reseller of the Year	2013 Service Expansion Award	2012 Service Award: Transformational Award - Rapid Time to Value	2012 Technology Award: Global Technology Partner of the Year	2011 Service Award: Quality Partner of the Year	2011 Communities Award: Community Leadership and Social Commerce Engagement
2010 Service Award: Leader in Customer Satisfaction	2010 Technology Award: Global Technology Partner of the Year	2009 Service Award: Ramp Up	2009 Service Award: Customer Satisfaction	2009 Service Award: Upgrade	2009 Outsourcing Award: Business Process Outsourcing	2008 SME Global Top Volume Reseller
2008 Technology Award: Go- to-Market	2008 Service Award: Landscape Upgrade	2007 Regional Excellence Award	2007 Channels award	2007 Enterprise SOA: Migration Excellence	2006 Technology Award: Development/Innovation	2006 Incremental Revenue Contribution Award
2005 Special Achievement Award	2005 ERP Innovation/Development Award	2004 ERP Innovation/Development Award	2004 Incremental Revenue, Best Total	2003 Achievement Award, Incremental Revenue Generation	2003 Achievement Award, Incremental Quality Program	2002 Customer Loyalty and Satisfaction

## IBM Power Virtual Server on IBM Cloud announced as SAP hyperscaler for RISE with SAP



- IBM Cloud is the *only SAP-certified IaaS to offer Power servers*
- With Power in IBM Cloud, customers can continue their transition to Cloud ERP on the *platform that delivered highest levels of availability and security* among SAP-certified servers
- *Reduce risks, complexity and accelerate cloud modernization of SAP landscape* with architecture consistency between Power on-premises and on IBM Cloud

# RISE with SAP on IBM Power Virtual Server

Designed for faster and non-disruptive SAP ERP modernization on IBM Cloud

## Faster time-to-value

**15-25%** Faster migration when moving from IBM Power to IBM Power Virtual Server as compared to re-platforming to other clouds<sup>1</sup>

**90 days** Designed to move existing SAP S/4HANA workloads as is from IBM Power on-premises to IBM Power Virtual Server within 90 days<sup>2</sup>

## Build trust

**#1** Designed to exceed SLAs with top ranking for server availability for 15 years among SAP-certified servers<sup>3</sup>

**14X** Fewer critical vulnerabilities and exposures in hypervisor compared to other SAP-certified cloud<sup>4</sup>

## Lower TCO

**2X** more granular scaling in RISE PTO profiles compared to other clouds and price parity with RISE PCE profiles<sup>5</sup>

**100%** Of the Power Virtual Server instances are virtualized that gives the operational flexibility to deliver right sized environments

## Protect investments

1. Power buyback program
2. Transformation suite
3. IBM Investment program for migration execution and moving surrounding non-RISE (SAP and non-SAP) workloads

1. Up to 15-25% in Power8 or newer generation systems based on IBM's blinded anecdotal feedback from actual customer migrations

2. 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.

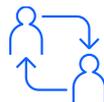
3. [ITIC 2023 Global Hardware Global Server Reliability Report](#)

4. 14X fewer CVEs in PowerVM compared to hypervisors in other SAP-certified clouds based on NIST vulnerability database records for [PowerVM](#), [Hyper-V](#), [KVM](#). Data as of 06/06/25

5. Refer Slide "Lower TCO as your data grows – RISE PTO profiles" for RISE PTO profile details

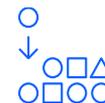
# Modernize while protecting the Power on-premise investments

IBM investment program	Assess	Migrate	Expand
SI and other partners	Partner	Partner	Partner
Transformation Suite	Partner or client	Partner or client	
Surround non-RISE and non-SAP workloads			Partner or Client
IBM Power investment protection			Client



## SI and Resell partners

IBM investments to support technical assessment, migration execution and moving the surround non-RISE (SAP and non-SAP) workloads to cloud



## Transformation Suite

Bundled industry leading software and services for data assessment, code analysis, and automated testing



## Surround non-RISE and non-SAP workloads

Financial support to accelerate cloud migration of non-RISE and non-SAP workloads and build new surround workloads around SAP



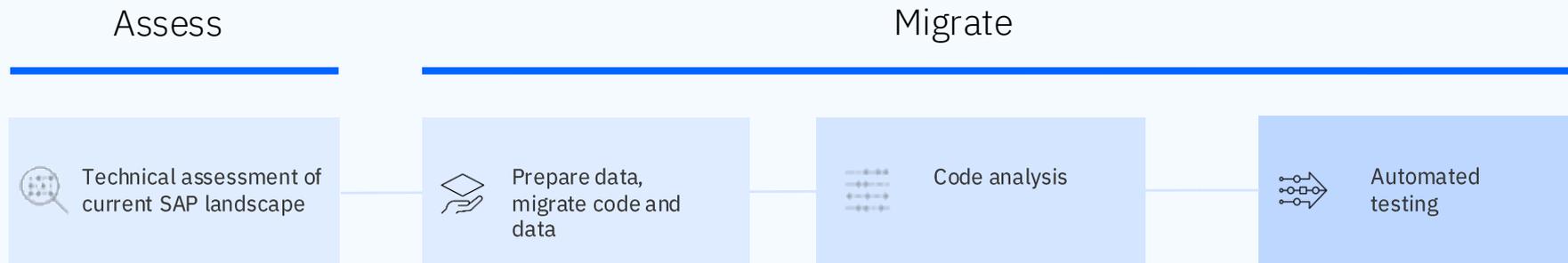
## IBM Power investment protection

Buyback program for Power servers running SAP landscape on-premises

# IBM Transformation Suite for SAP applications

Allows partners to earn and transform

Bundled software and services from IBM and industry-leading suppliers including SNP to accelerate the migration to SAP S/4HANA® and RISE with SAP which IBM Business Partners can resell and surround with value added services.



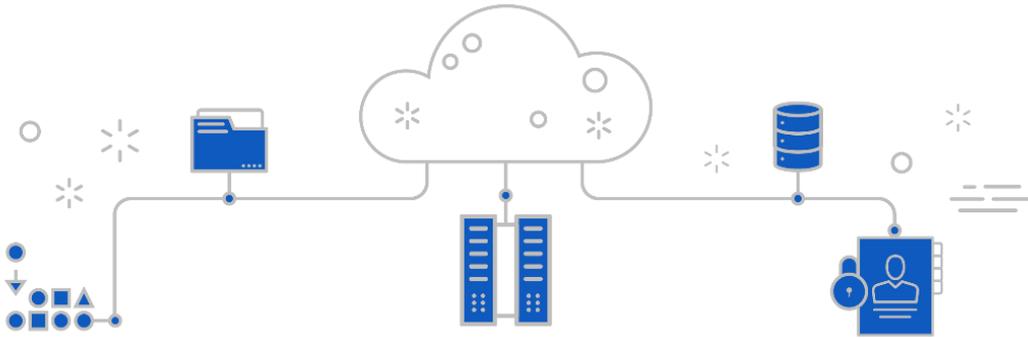
# 02 Why RISE with SAP on IBM Power Virtual Server

Why IBM Cloud



# IBM Cloud: The Cloud for Business

Innovate, integrate, orchestrate, and manage across your RISE with SAP cloud infrastructure



## AI ready

The IBM Cloud accelerates innovation with both your SAP and non-SAP data creating new insights with AI

## Built for all your workloads including SAP

The best architecture to guide your cloud journey, allowing you to modernize and extend existing applications and build new cloud-native apps

## Secure to the core

The IBM Cloud is the most secure and trusted enterprise cloud

- ✓ Meet your SAP landscape's needs with the largest and most powerful SAP-certified servers in the cloud
- ✓ Move data to, from, and between your IBM servers with minimal latency and zero cost
- ✓ Get the flexibility, speed and agility to innovate without jeopardizing security
- ✓ IBM Cloud offers over 250+ Services to extend and innovate around SAP
- ✓ Protect your most sensitive data by incorporating industry-leading security utilizing BYOK/KYOK and quantum-safe encryption

# IBM Cloud offers broadest infrastructure options for SAP

## IBM Power Virtual Server

### *Foundation of RISE with SAP*

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- Only cloud to offer SAP-certified IaaS on Power
- Maintains the performance and uptime of the Power platform
- Supports granular scale-up memory options from 256GB to 32TB in a virtualized environment
- Certified to run some of the largest HANA database with scale-out configuration of 128 TB
- Allows for Like-to-Like migration for existing Power Customers

## IBM Cloud VPC

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- Intel virtual servers are available to support HANA and both Intel and AMD virtual servers can support AnyDB workloads
- Deploy entire HANA and AnyDB landscapes with IBM-provided automation for enhanced scalability, resiliency, and storage

## SAP Certified VMware Solutions

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- Only Cloud provider certified to run production SAP workloads on VMware
- Optimized performance with high agility, resiliency, and elasticity
- Secure Single-tenant deployment using VMware clusters
- 90K Customers run on VMware clusters. Each node can scale up to 6TB

## SAP Certified x86 Bare Metal Servers

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- Offered in 2, 4, or 8 socket configurations
- Offered in scale-up with 192 GB of RAM up to 12TB of RAM or scale-out clusters of up to 60TB of RAM for the largest enterprise workloads
- Available with Intel Optane DC Persistent Memory

# IBM's approach to SAP security

13 layers of security to ensure full coverage from regulatory and compliance to most technical aspects of security hardening for SAP



## IBM Cloud

Govern resource configurations and centrally manage compliance

Gain complete authority over data at rest, in transit, and in use

Deploy locally and scale globally with resilient and highly available infrastructure

## IBM Security Services

**Analyze:** Current security posture based on 13-layer framework

**Define:** SAP security baseline to build monitoring automation

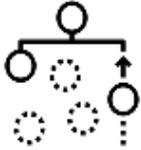
**Prevent:** Incidents with automated monitoring of security controls

**Detect:** Threats implementing SAP Enterprise Threat Detection

**Improve:** Continuous review and refinement of security posture

# IBM Cloud Paks extend RISE with SAP

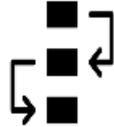
Data



Collect, Organize,  
Analyze data &  
Infuse AI

*Access data  
up to 4.3x faster<sup>1</sup>*

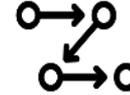
Integration



Integrate apps,  
data, cloud  
services & APIs

*Integrate 3X faster  
at 1/3 less cost<sup>1</sup>*

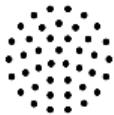
Business Automation



Integrate  
& Transform

*Reduce manual  
processes up to 80%<sup>1</sup>*

Watson AIOps



Visibility,  
governance,  
automation  
& AIOps

*Reduce IT op expense  
by up to 75%<sup>1</sup>*

Security



Detect,  
investigate, and  
respond to  
security events

*Resolve security  
incidents up to 8x faster<sup>1</sup>*

Network Automation



Automate  
Network  
Configuration

*Network site setup  
up to 10x faster<sup>1</sup>*

<sup>1</sup> For source material, see notes below

IBM Cloud is based on industry standards

### IBM Cloud Security Policy



Based on ISO 27001

**NIST**  
NIST SP800-53

..with demonstrated compliance through certifications and attestations

 SOC1, SOC2, SOC3	 (Germany)	 DoD DISA IL-2 (USA)	 ENS High (Spain)	 EU Model Clauses IBM Data Processing Addendum (DPA) (EU)	 HIGH (USA)
 Health Data Hosting (France)	 Hébergeurs de Données de Santé (HDS)	 (USA)	 PROTECTED (Australia)	 PCI DSS Level 1	 TISAX/ENX Assessment Level 2 (Germany / Automotive)
 ISO/IEC 9001	 ISO/IEC 22301	 ISO/IEC 27001	 ISO/IEC 27017	 ISO/IEC 27018	 ISO/IEC 27701
 ISO 31000 Risk-Management					

...enabling workloads governed by global and industry regulations, standards and frameworks

 STAR Level 1	 Center for Internet Security Benchmark (USA)	 (EU)	 NIS Directive (EU)	 (USA)	 V8 Self Assessment (Japan)
 FISMA (USA)	 GDPR (EU)	 (USA)	 (Japan)	 (USA)	 (EU-US)
				 SEC 17a-4 (USA)	

(\*) Data centers are added to the IBM Cloud audit/review cycle in the next available cycle after DC goes live. Because each (commercial) data center is managed to the same standards and procedures, we assert that we will achieve compliance certifications for each new data center as it is added to the IBM Cloud audit cycle.  
 (\*\*) FedRAMP is for dedicated, special purpose FedRAMP data centers (IBM Cloud for Government) located in USA

The client is responsible for ensuring compliance with all applicable laws and regulations applicable to it. IBM does not provide legal advice or represent or warrant that its services or products will ensure that the client is in compliance with any law or regulation.  
 All certifications, attestations, and standards adherence listed above do not apply to all IBM cloud services and/or all Data Centers; contact IBM for service-specific compliance listings.

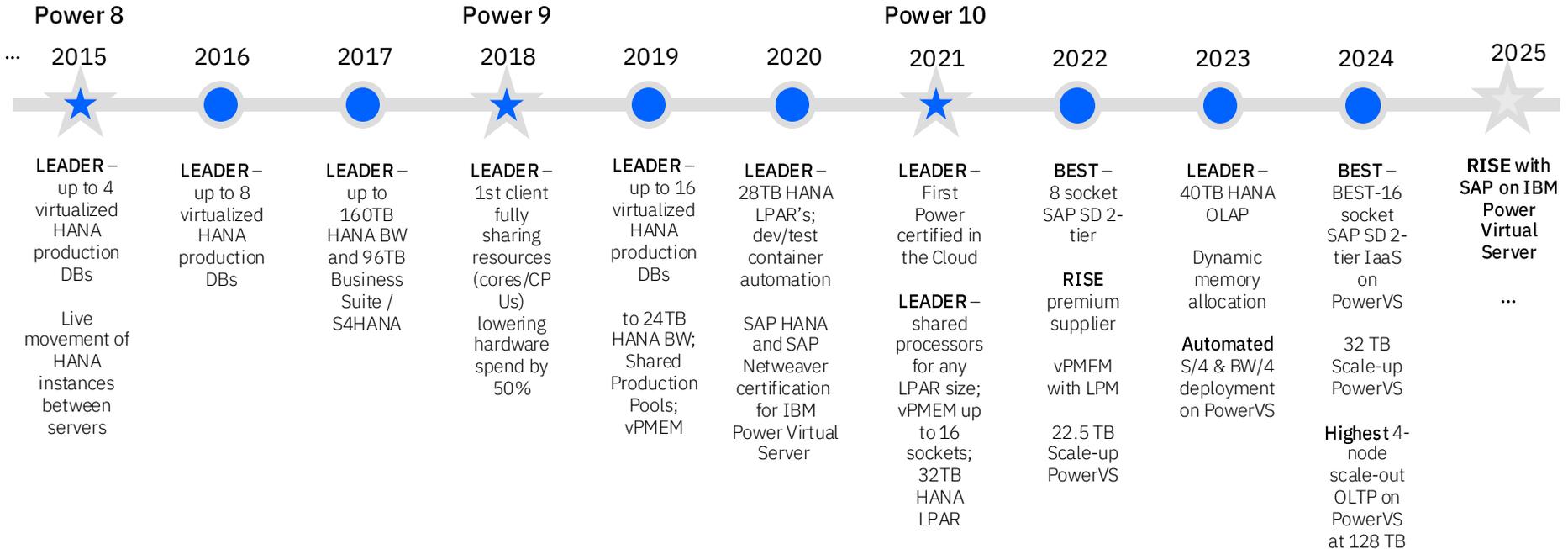
# 02 Why RISE with SAP on IBM Power Virtual Server

Why IBM Power and Power Virtual Server



# SAP HANA and IBM Power

A 50+ year history of co-innovation



# Why is IBM Power Virtual Server the ultimate platform for running SAP?

## Security



### Secure to the Core

*Comprehensive end-to-end security from processor and firmware, to OS and hypervisors, to apps and network resources*



### Up to date Patching

*Frequent update of server microcode and storage devices*



### Resiliency

*Ranked top for server availability for past 15 years by ITIC with 99.999% server availability, designed to meet and exceed SLA*



### Maximum Uptime

*ITIC 2023 Global Server Hardware Server reports IBM Power10 with Linux has 263x less downtime over HPE Integrity Superdome*



### Superior Hypervisor Protection

*13 times fewer CVEs as compared to Azure Hyper-V (PowerVS 16 vs Hyper-v 209)*



### Cloud Security

*Superior IBM Cloud security and comprehensive compliance*



### Unmatched Single Instance SLA

*99.95% SLA for a PowerVS Virtual Server ensures single-instance workload reliability.*



### Superior Memory Protection

*Robust memory, enhanced data correction and error resilience features*

# Why is IBM Power Virtual Server the ultimate platform for running SAP?

## Performance



Over 2x Per-Core Performance vs Intel

*Power Cores outperform Intel with 8 threads per core.*



Cost effective AI Inferencing

*On-chip MMA units enable AI operations without GPUs.*



Grow with your business

*Customize your VM to fit your exact SAPS and memory needs, with flexible options from 4 cores/256 GB RAM to 165 cores/ 32 TB RAM*



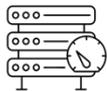
Innovate

*Over 250+ services on IBM Cloud platform, including analytics, edge/IoT, and leading AI/ML tools, to enhance and innovate with SAP.*



Highest Memory Throughput

*Higher memory throughput over intel systems.*



High-end Storage performance

*IBM Storage FlashSystem with advance features, delivers unmatched performance for demanding enterprise workloads*



OLTP Scale-out Certified

*Largest and most powerful OLTP scale-out system built to support the largest S/4 deployment up to 128 TB HANA databases*



Sustainability

*Easily integrate your PowerVS environment as part of your total landscape with the IBM Cloud Carbon Calculator for transparency into your entire footprint*

# Deploy locally and scale globally

with resilient and highly available infrastructure

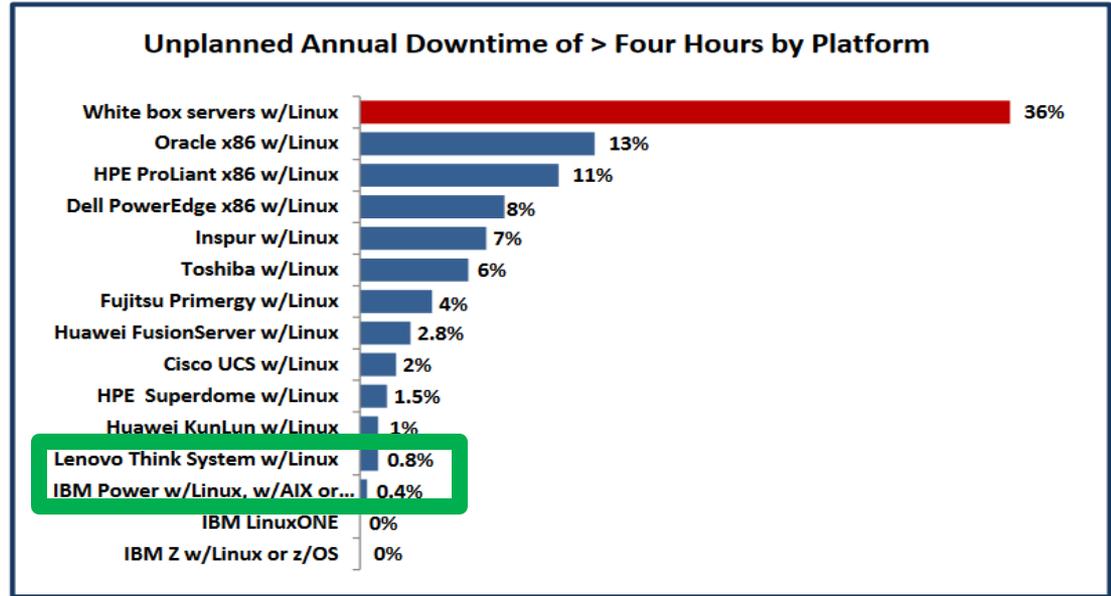
IBM Cloud for SAP is built on enterprise-grade Power and Lenovo infrastructure that are recognized most reliable in its category

The built-in end-to-end security in Power platform from processor to firmware to hypervisor minimizes security vulnerabilities

Common Vulnerabilities and Exposures (CVEs) reported since 2020 for Power and Azure hypervisors

PowerVM	Hyper-V
<u>16</u> *	<u>209</u> *

\*NIST vulnerability database - [PowerVM](#), [Hyper-V](#), Data as on Dec 17<sup>th</sup>, 2024



Source: ITIC 2023 Global Server Hardware/Server OS Reliability Survey

# Lower TCO as your data grows

Migrate faster, reduce costs

Pay for what you need, not more

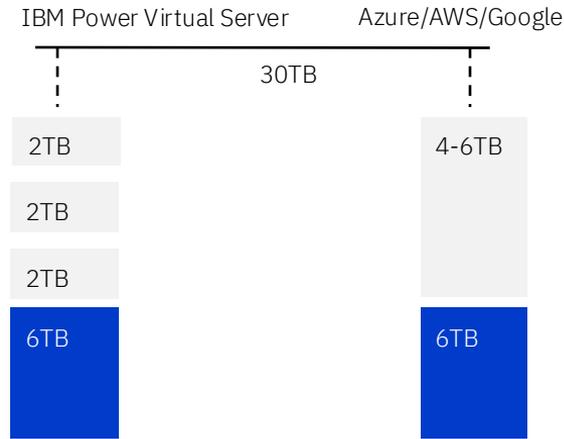
## 15-25%

Faster migration at reduced costs with IBM Power and IBM Power Virtual Server architecture consistency<sup>1</sup>

Scale SAP HANA to your needs, unlike reserved instances that lock you into rigid, oversized solutions.

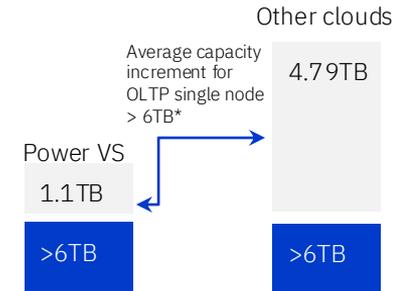
## 2X

more granular scaling in RISE PTO profiles compared to other clouds and price parity with RISE PCE profiles



## 4X

4X more granular scaling for SAP HANA (non-RISE) >6TB that helps avoid capacity overprovisioning and reduce costs<sup>2</sup>



1. Upto 15-25% in Power8 or newer generation systems based on IBM's blinded anecdotal feedback from actual customer migrations

2. Average of capacity increment for OLTP single node >6TB is 1.1TB in Power Virtual Server compared to the average of average increments of 4.79TB among other clouds. Source: <https://me.sap.com/notes/1656099/E>, <https://me.sap.com/notes/2456432/E>, <https://me.sap.com/notes/1928533>, <https://me.sap.com/notes/2947579/E>.

# Lower TCO and improve ROI

Flexible server sizes to support future growth. Scaling aligned with **actual business demand**

Two examples where IBM's flexible server sizing is a major advantage...

*Customer A requires 16.5TB capacity*

→ *Other clouds: provision 23 or 24TB*

→ *IBM Power Virtual Server: provision 18TB*

→ *Net benefit: Save costs and time*

*Customer B requires 15.5TB*

→ *Other clouds: Decide to either squeeze into 16TB or incur additional costs for 23 or 24TB*

→ *IBM Power Virtual Server: Get 16 or 18TB*

→ *Net benefit: Save costs and time*

With IBM, customers can grow RAM for SAP HANA in average **2TB increments**, so **no wasted spend**



SAP HANA OLTP Power10 and Intel Sapphire Rapids Profiles Greater than 6TB for [hyperscalers](#).

\* IBM Power Virtual Server usable capacity is 30.5TB since 1.5TB will be used for infrastructure and communication resources

Source: [Certified and Supported SAP HANA® Hardware](#)

# Power Virtual Server Worldwide deployment

22 data centers in 7 countries, across 12 regions, and growing!

## Americas

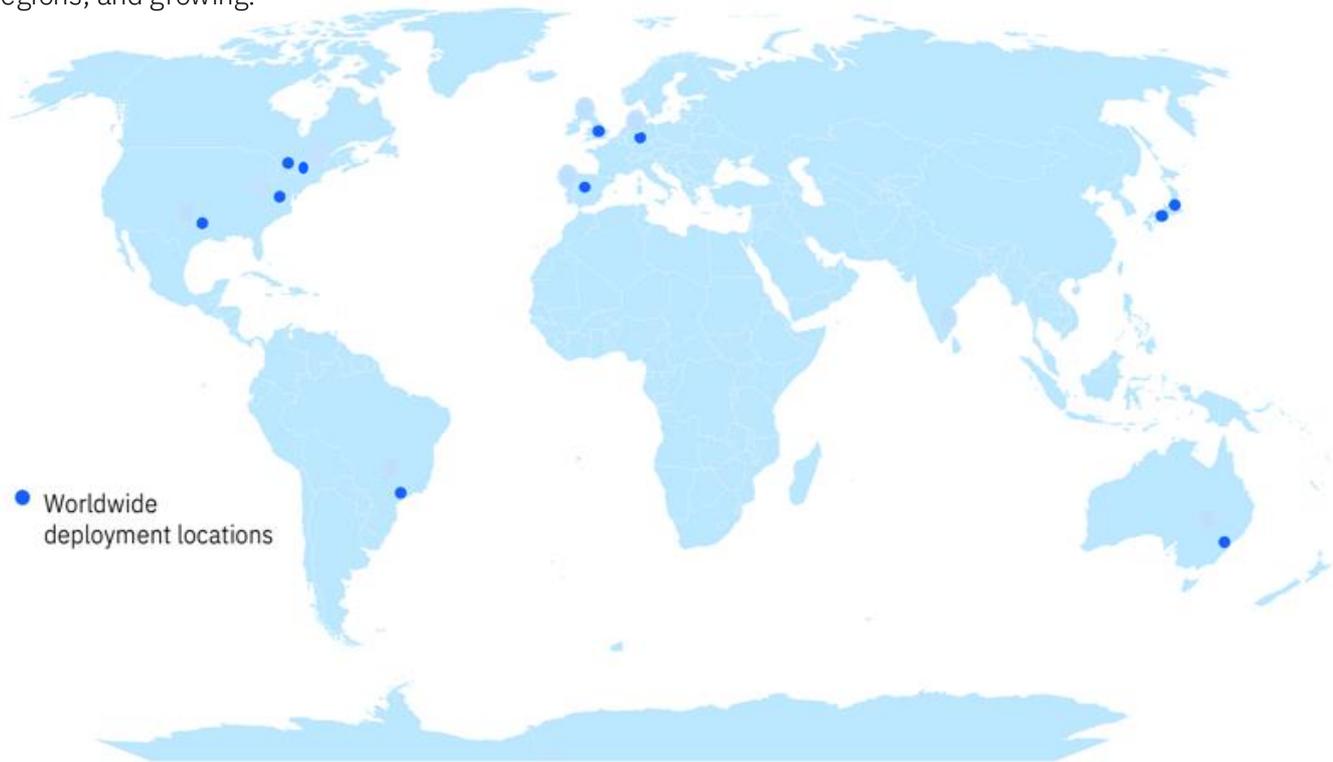
- Dallas
- Washington DC
- Sao Paulo
- Toronto
- Montreal

## EMEA

- Madrid
- Frankfurt
- London

## APAC

- Tokyo
- Osaka
- Sydney



**NOTE:** IBM PowerVS are physically located in IBM Cloud data centers with their own dedicated infrastructure. For latest list of supported data centers, please visit this [documentation page](#).

*RISE with SAP can be made available in any location based on customer demand*

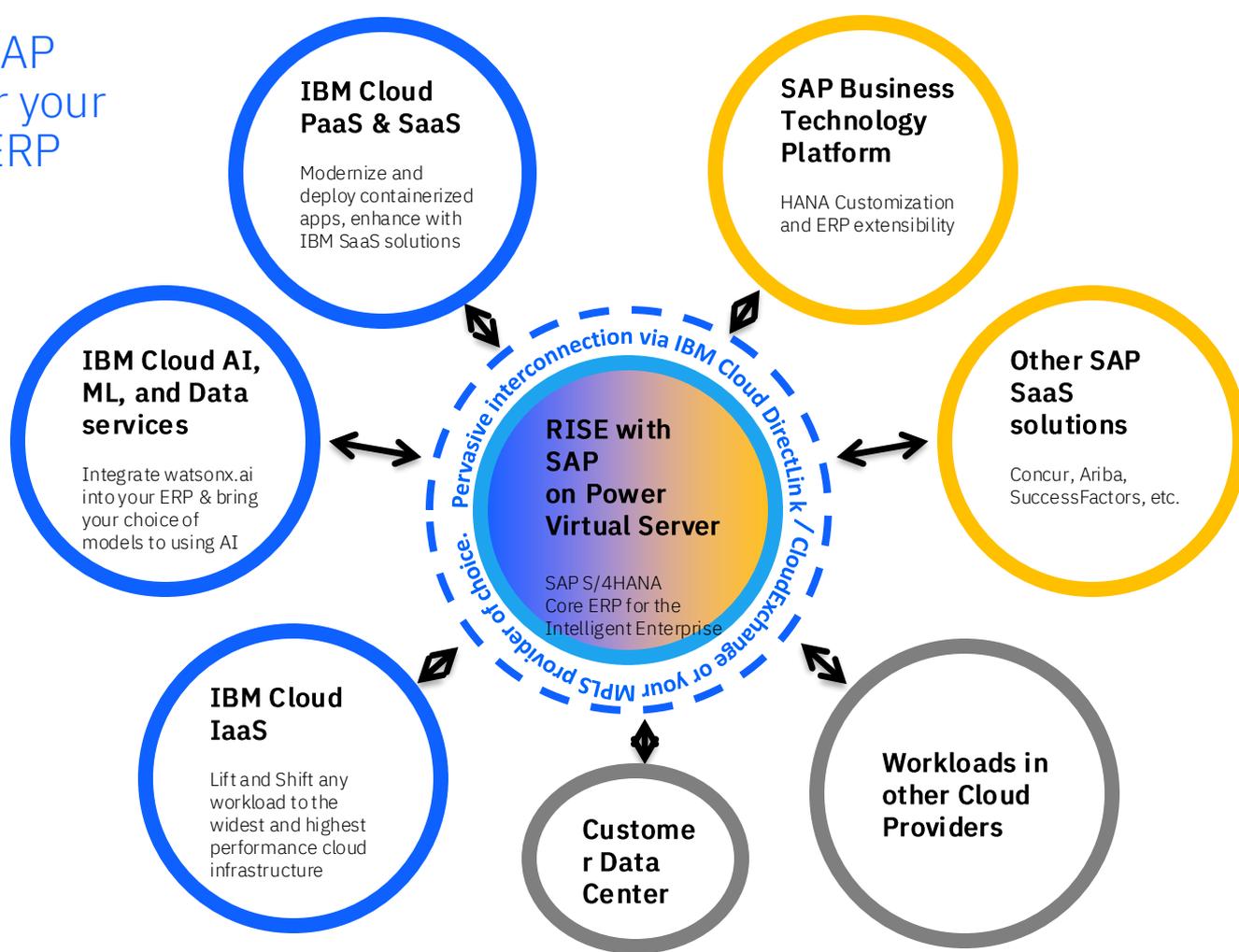
# 03 Extend your SAP Landscape

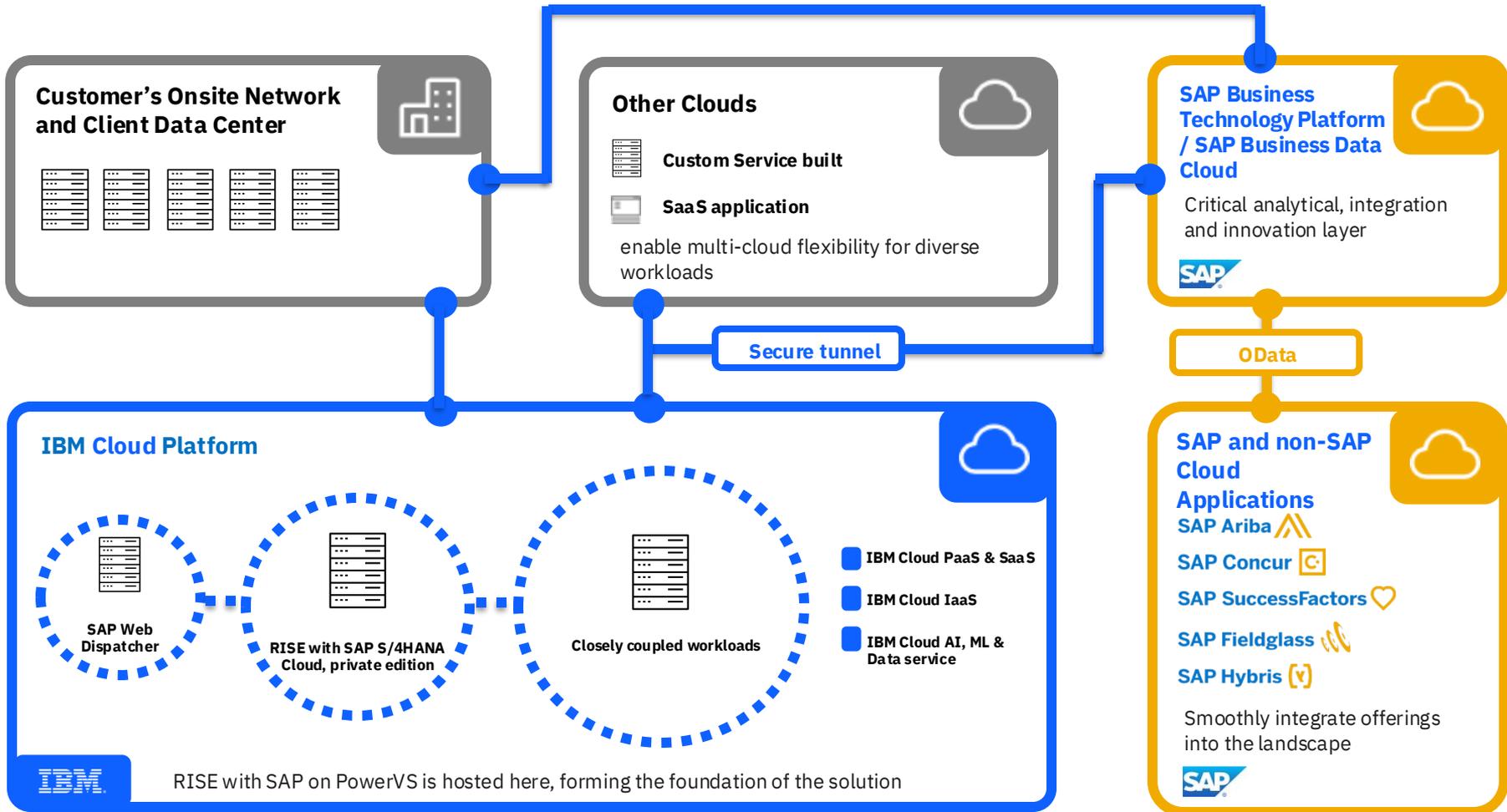
with additional services from IBM Cloud



# RISE with SAP

The core for your intelligent ERP





WHERC

