

RISE with SAP S/4HANA with Hybrid Cloud

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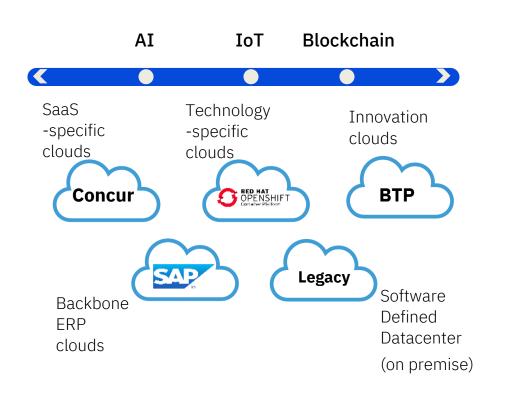
Agenda

- The hybrid multicloud paradigm
- RISE with SAP choices
- RISE with SAP support
- Application customization and extensibility
- Client offerings and success



The new normal is hybrid, multicloud, and open

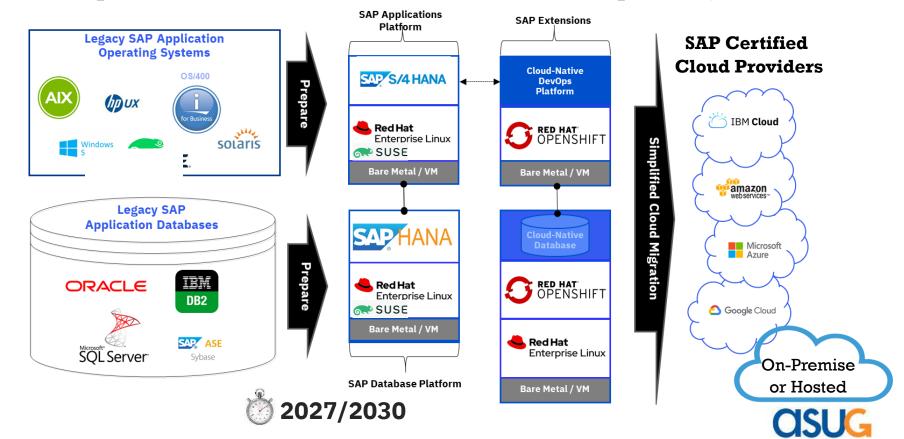
The focus enterprise application use cases for this session will be SAP, as one of the world's largest packaged application providers





The hybrid cloud journey to RISE with SAP

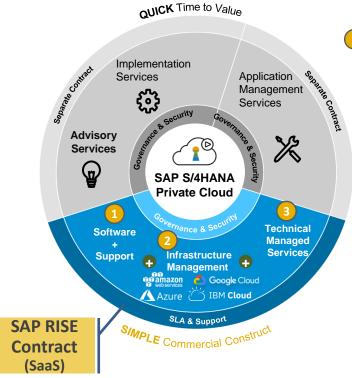
Three options available: Public, Private and CDC (on-premise)



SAP S/4HANA Deployment Options

Traditional perpetual license RISE subscription license Full feature **Operational control** Enterprise customization Some flexibility & control S/4HANA Any Premise Least control S/4HANA Any Premise S4/HANA Cloud S/4HANA Cloud (IBM Managed+ for SAP) S/4HANA Cloud (IBM premium RISE provider) (Private edition) (Public edition) Client/SI service delivery SAP service delivery IBM service delivery SAP certified laaS partners Hybrid Cloud IBM Cloud / IBM Power Full operational control Full Control Entry level Limited customization • Far more bespoke & visibility No · Good for SMB and mid-• DIY • Good for typical enterprise • Good for enterprises in customization market Still SAP RISE contract, regulated domains Grow with SAP RISE with SAP **IBM** delivery IBM contract and delivery

RISE with SAP Commercial Construct



Software & Support

- SAP Software, Enterprise Support & Maintenance releases
- Cloud Connectors: SAP Ariba, SAP SuccessFactors, SAP Concur, SAP IBP
- · SAP Adobe Document Services for printing

Cloud Infrastructure

- All compute, storage, & network hardware needed for SAP S/4HANA Dev/Test/Prod
- SAP Certified Cloud Infrastructure
- Highest Flexibility & Scalability
- · IBM Cloud running in SDS datacenters

Technical Managed Services

- · High Availability & Business Continuity
- Application SLA: 99,7% for productive system, 95% for non-productive systems
- Installation & Configuration (Cloud provisioning, Operating system, SAP software, database)
- · O/S level patches, etc.
- · Security & Intrusion detection services
- · Daily backup & recovery
- · HA and DR operations (optional)



Hybrid Cloud: Choose your Cloud Privacy model

A Private Cloud model is typically chosen for SAP production workloads.

A recent ASUG study found that only 8% of SAP customers would consider deploying their production workloads to a Public Cloud. Private Cloud solutions run within a Public Cloud but incorporate physical isolation for each client for increased security and disruption from "noisy neighbors".





Public cloud



Private cloud

Networking



On Prem

Customerfacing and collaboration apps, SAP sandbox testing



Missioncritical, securityconscious production workloads



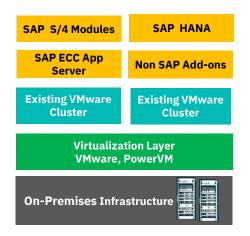
Workloads reside behind firewalls, siloing business processes

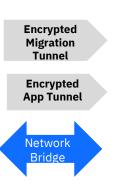


Exploring the Cloud Virtualization model

Client Triggers

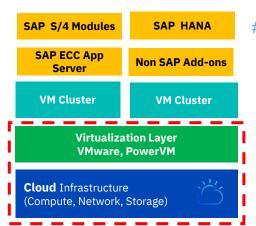
- Desired to move SAP workloads to the Cloud
- SAP ECC to S4/HANA migration mandate
- Expanded Capacity Needs
- Disaster Recovery on the Cloud
- Divestitures/Carve outs





Client Values

- Frictionless migration, retain investment, no refactoring
- Reduced cost, greater flexibility, higher resiliency
- Minimal business disruption (keep your IP addresses)
- On-Demand SAP Certified Infrastructure
- Preserve portability and choice



#1 VMware Cloud Partner with over 2.000 clients

100,000+ VMs migrated to IBM Cloud

IBM Cloud is the only cloud provider to offer SAP-certified VMware & Power Systems (PowerVS)



IBM Hybrid Cloud for RISE with SAP

Intel x86 (IBM Cloud)

Hundreds of large-scale SAP Clients

More than 10K hosts

More than 1PB of memory

More than 20PB of storage

Support for Intel Optane* persistent memory for fast HANA shutdown and startup

Largest HANA Database system - scale up: 12TB, scale out: 60TB

Largest Virtualized HANA Database system – scale up: 6TB

IBM Power Systems

4500+ SAP HANA clients (On-premise & Cloud)

Ranked # 1 for last 14 years in being the most reliable server

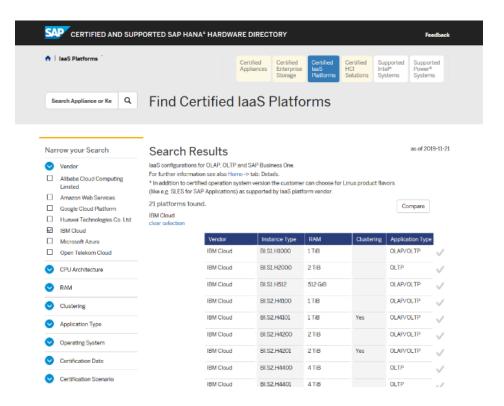
Support for persistent memory for fast HANA shutdown and startup (Onpremise)

Largest Virtualized HANA Database System – scale up: 40TB (22.5 TB in Cloud)

Scale workload more granular .1 CPU and 1GB memory

Certified and Supported SAP HANA Hardware Directory

Reference: SAP Certified Cloud Provider Options

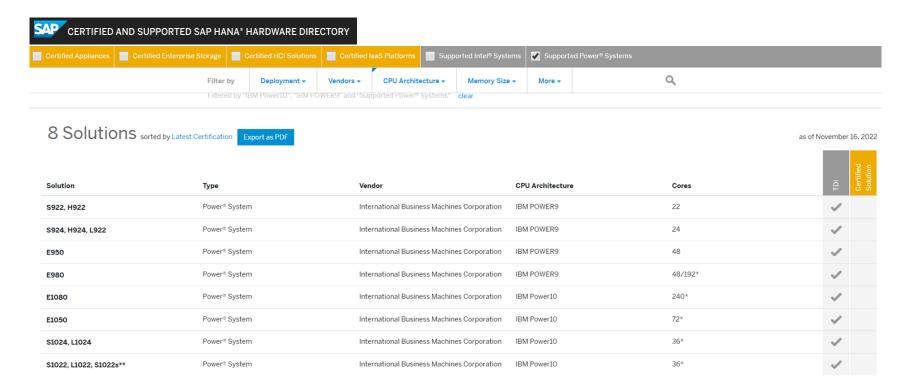


- Most factual and reliable golden reference of SAP Certified IaaS
- Compare and contrast with other SAP IaaS Cloud Providers (Azure, AWS, GCP, IBM Cloud etc...)
- Filter by CPU, Memory,
 Clustering, Operating System
 (RHEL/SLES), OLTP/OLAP, etc...





Certified and Supported SAP HANA Hardware Directory Reference: SAP Supported Power Systems Options





Source: Certified and Supported SAP HANA® Hardware Directory

Application Customization & Extension model

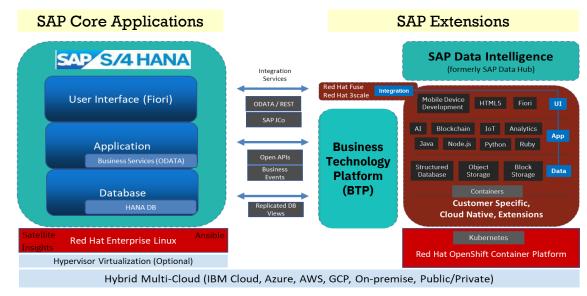
SAP Side-by-Side Extensibility with BTP and Red Hat OpenShift Provides on-premise and Cloud Independence BTP starter credits are included with RISE

- The future of extending SAP is to minimize modification of the Digital Core using Cloudnative platforms, such as SAP Business Technology Platform and OpenShift
- Modification of Core
 application source code
 breaks the ability to perform
 functional upgrades of SAP
 cost effectively
- Key efficiency objective:

 Develop once, deploy

 anywhere.

Note: BTP does not support on-premise deployments today. OpenShift the only option for on-prem cloud-native extensions.



- OpenShift is an on-prem/Cloud, application-independent, Cloud-native development and runtime environment used by half of the Fortune 500
- Red Hat OpenShift ensures SAP extensions/customizations can be run onpremise or on any major Cloud provider, and are reliable and scalable

SAP HANA supports SUSE and Red Hat only

RHEL now preferred for New Clients with RISE with SAP*

RHEL RELIABILITY in the market:

90% of the Fortune 500 trust Red Hat

Approx 70% Paid Linux market share

Development Powerhouse

#2 Kubernetes & Linux contributor

Completeness of portfolio

Virtualization

Management & Automation

Application Integration

OpenShift Container Platform

RHEL SUPPORT:

Pre-sales & Post-sales

Red Hat SAP Technical Account Managers

Standard SLA for non-prod / Premium for prod

Red Hat Global support services engaged via SAP

global backbone

Specialty Based Routing (SBR) model ensures SMEs

work the issue

Application Compatibility Guide

Realize More VALUE while Reducing Costs:

RHEL for SAP Solutions delivers more capabilities

Extended Update Support

Focuses on SAP applications lifecycle, providing a stable foundation with support for RHEL certain minor releases up to 4 years

State-of-the-art management and automation into your SAP landscape



BREAKTHROUGH with IBM for RISE with SAP, premium supplier option **IBM Added** IBM UNIQUE Delivery Construct Value **QUICK** Time to Value **Implementation** Implementation Services Services Application Management **Application** Services Management Services **Advisory** Advisory **Services Services 四**) (型) SAP S/4HANA SAP S/4HANA **Private Cloud Private Cloud Technical Software** Managed **Technical** Software + Support **Services** Managed Services Infrastructure Infrastructure Management Management Google Cloud

Simplifying the journey, unified accountability

SAP RISE

Contract

(SaaS)

Azure (IBM Cloud

SLA & Support

SIMPLE Commercial Construct

SAP RISE

Contract

(SaaS)



IBM Cloud

Ready to support your journey to hybrid cloud

SAP HANA on IBM Power

On premises

IBM Power servers



Public cloud

IBM Power Virtual Server



IaaS

RISE with SAP, premium supplier option on IBM Power



Meeting you where you are



IBM **Power**

SAP HANA CLIENT SUCCESS



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Flexibility for the Digital Enterprise

- When the COVID-19 pandemic forced Ecogas to suspend in-person services for its 1.4 million natural gas customers in Argentina, the company had to act fast to prepare for a surge in demand for its digital channels.
- By moving to SAP HANA 2.0 on IBM Power10, Ecogas can support its customers with seamless digital services through the pandemic and beyond. The new solution has allowed the organization to reduce IT operational costs by 20% while boosting compute performance by 35%—empowering it to accommodate a massive increase in demand for digital services.
- "Moving to SAP HANA 2.0 on IBM Power10 played a key role in allowing Ecogas to maintain high service levels throughout the pandemic. In fact, around 80% of our customers now use digital channels as their primary touchpoint—all enabled by our IBM and SAP solutions."



Sustainability

- Bosch Group, a leading global engineering, technology, and services company based in Germany, has committed to and achieved an ambitious target: to become the world's first fully carbon-neutral industrial enterprise by 2020.
- Bosch is transitioning to IBM Power10 servers, with up to 75% performance gains while cutting energy consumption by 20%, supporting the company's climate ambitions
- "IBM Power10 enables us to run more workload and deliver results more quickly to our business users. Early experience shows that for jobs with a high degree of parallelization, the move to Power10 is an essential component of the Bosch digital transformation and sustainable operations journey."



Real Time Analytics

- Cutting food waste is a key ingredient in Coop Group's recipe for a more sustainable future, and to help realize this vision the organization is focusing on optimal product assortment and quantities across all stores.
- Coop Group is using high-performance IBM®
 Power10 servers with SUSE Linux® Enterprise
 Server for SAP Applications to accelerate SAP
 S/4HANA® reports by up to 30%—empowering the
 company to run the business more efficiently with
 fast, data-driven decisions.
- "SAP S/4HANA running on IBM Power10 with SUSE Linux Enterprise Server for SAP Applications has accelerated some tasks by 30%—a testament to the improved performance of IBM Power10."



Performance

- To address momentous market changes, automaker Audi AG is focusing on electrification and hybridization but also on digitization, including cutting-edge areas such as connected cars and autonomous driving.
- To support this, Audi saw the need to increase innovation, speed and agility. The implementation of IBM Power10 servers provided 100X faster loading for advanced analytics with 66% fewer servers
- "The unmatched scalability and flexibility of IBM
 Power Systems is a key benefit for us. We can
 dynamically adjust our resource allocations and
 prioritizations on the hypervisor level to ensure our
 applications can always meet our business needs.
 From my experience, IBM solutions deliver superior
 business agility, ensuring we have the freedom and
 capability to innovate, and lead the industry"

Thank you for your time

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