



SAP Azure Migration Best Practices With SUSE and MSR Cosmos

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Business operations need “always-on” quickly delivered services

70%

Of end users think that new IT projects shouldn't take more than 2 weeks to roll out¹

- Manual processes
- Risk of “Shadow IT”
- Time to deploy new services

Cloud
AI/ML/IoT

Emerging technologies require new processes, tools and skills

- More infrastructure instances
- Increasing maintenance time
- New cloud skills

\$1.9M

Average Cost of lost productivity¹

- Up to 17 outages / day prior to implementing SAP S/4HANA
- 150 employees affected by every application outage

\$40M

Cost of 1 million record data breach²

- \$350M cost if 50M records are compromised
- 75% of U.S. consumers demand data protection

¹ “The Total Economic Impact™ of SAP S/4HANA,” Forrester, 2019

² “2018 Cost of a Data Breach Study: Global Overview,” IBM

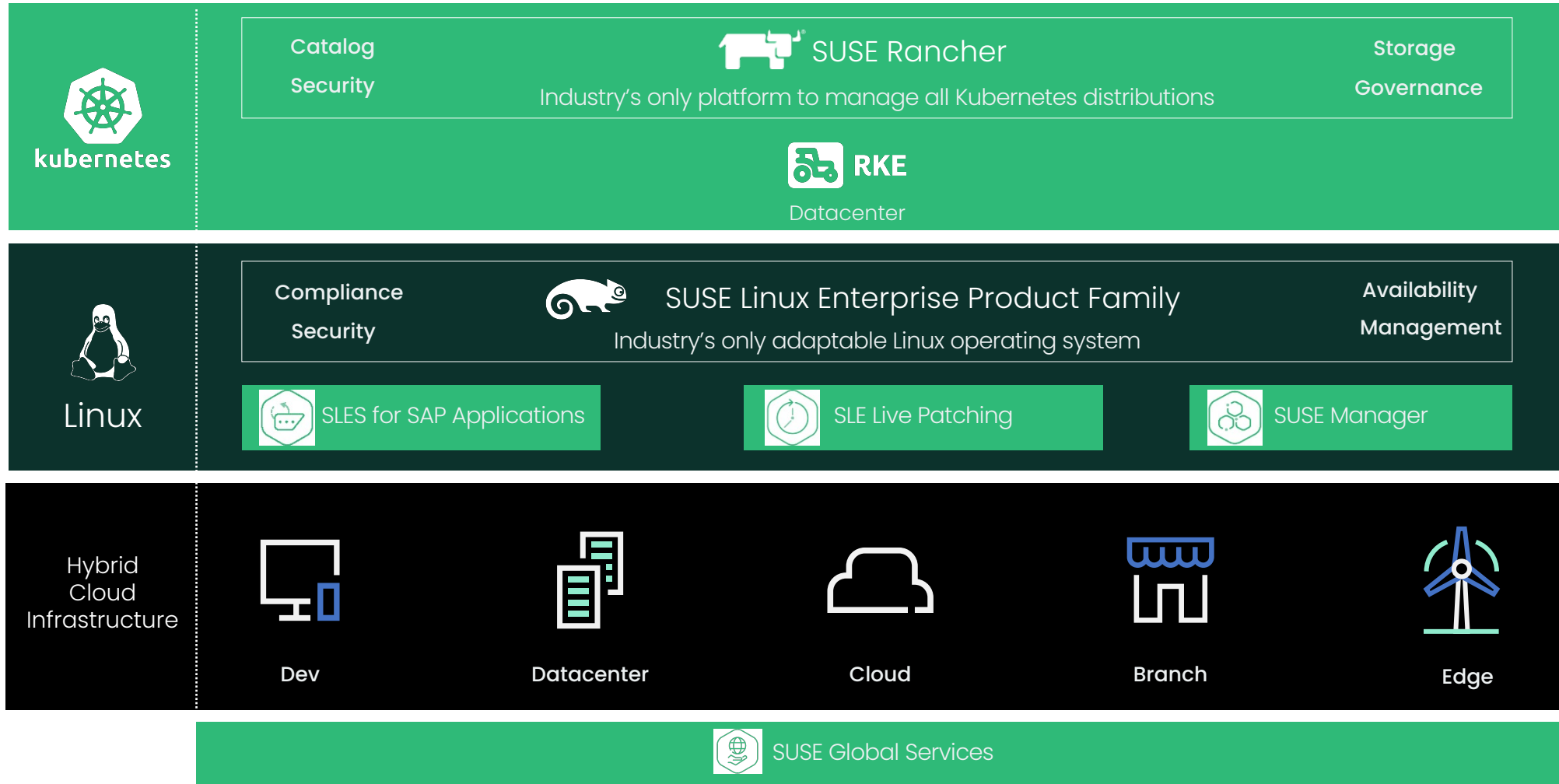


How can SUSE help you?

Improve uptime and security
Deliver new services faster
Manage infrastructure complexity



SUSE platform for SAP infrastructures



Customers prefer SUSE solutions for SAP services

SUSE
Advantage

~ 300
Success Stories
and Case Studies

70%

of SAP applications
on Linux

85%

of SAP HANA
installations

100%

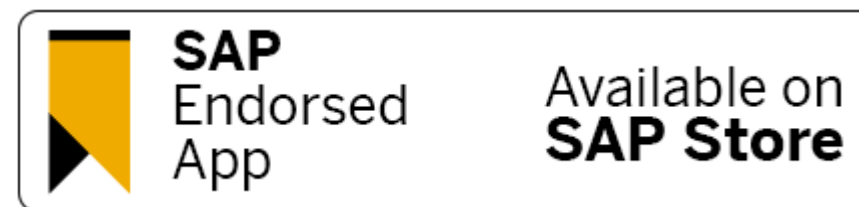
of SAP Business
One version for
SAP HANA
deployments



SUSE delivers an SAP Endorsed App

SUSE Linux Enterprise Server for SAP Applications is endorsed by SAP

- A new partner ecosystem product category
- Proven solutions for SAP systems
- Invitation-only
- Rigorous testing beyond standard certifications
- One product per category



SUSE consistently leads in supporting SAP solutions

SUSE Advantage

SUSE was first to deliver:

- Linux for SAP HANA (2011)
- Open source HA for NetWeaver (2012)
- SAP HANA System Replication (2014)
- Amazon EC2 OS for SAP (2015)
- SAP HANA on IBM Power Systems (2015)
- Live kernel patching for SAP (2017)
- Certified KVM for SAP HANA (2018)
- Certified to manage NetWeaver clusters (2018)
- Intel Optane™ for SAP HANA (2018)
- IBM PowerVM™ PMEM for SAP HANA (2019)
- Full SAP stack deployment with monitoring (2020)
- IBM Power Virtual Server for SAP HANA (2020)



SUSE delivers broad Hyperscaler support

Transform faster with less risk

- Immediate access to resources
- Quickly deploy and scale
- Single, hybrid or multi-cloud

Centralize infrastructure management

- Eliminate downtime for Linux security patches
- Maintain compliance across cloud and on-premise
- Proactively identify and fix issues
- SLES for SAP Applications on-demand (PAYG) includes:

- SUSE Linux Enterprise Live



Rapidly deliver purpose-built SAP HANA systems on Microsoft Azure

Delivering flexibility for small and very large SAP deployments

- Choice of deployment options
 - VMs for SAP HANA up to 16 TB
 - Custom TDI SAP HANA up to 60 TB
- Office 365 and Microsoft Power BI
 - Combine with SAP HANA data
 - Deliver business insights and visualization
- Azure Active Directory
 - Web-based single sign-on
 - Support SAP, Office 365 and other solutions





SAP on Azure – Customer Story

Raghavendra Prabhu | +1 732 340 6765 | r.prabhu@msrcosmos.com

Fast Facts



2500+

Global Workforce



20+

Offices across 4 continents



15+

Technology Partnerships



4

Focused Tech Horizons



10

Diversified Industries



100+

Happy Customers



Awards & recognitions



Featured on ISG Provider Lens for SAP on Azure



Certificates






An MSRcosmos group company

Microsoft Cloud Competencies

Gold
Microsoft Partner



Advanced Specialization
(Gold Standard)

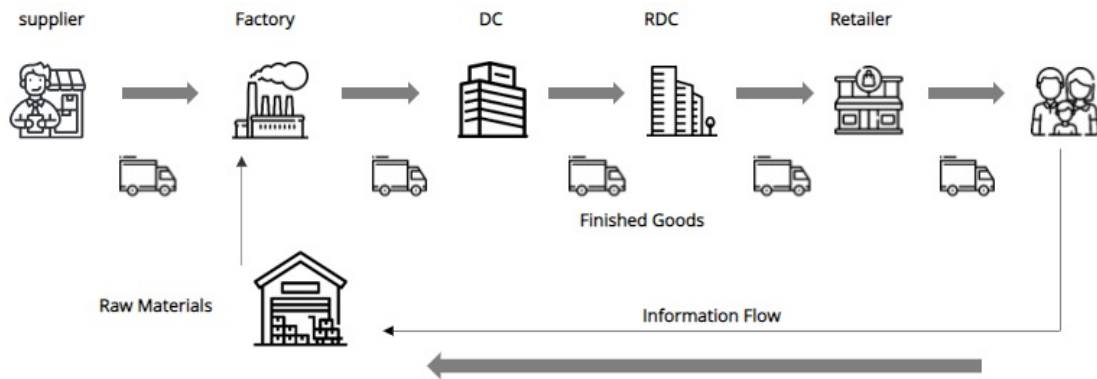
- SAP Migration & Managed Services 
- Data & AI 
- Open-Source OS and DB Migration
- Active Directory Services
- Cloud Managed Services 
- Application Modernization 
- Windows & SQL Server Migration

Customer Story

Scenario

Customer Profile

- An US-headquartered large global windows and doors manufacturer
- Operates **117 manufacturing facilities** in **19 countries**
- Present in **3 continents**



The SAP Landscape

- Run 2 S/4HANA instances - S/4HANA Core and Central Finance
- SAP was deployed in **external DC, managed by a 3rd party**
- **7 SAP environments** across Project and Product deployments



Challenges & Evaluation

Multifold Challenges

Efficiency led



- **No control of infra / admin access** to SAP Infrastructure, OS and DB
- **Minor Infra / BASIS change requests had long TAT**
- Customer was not satisfied with **support quality and performance**

Infrastructure led

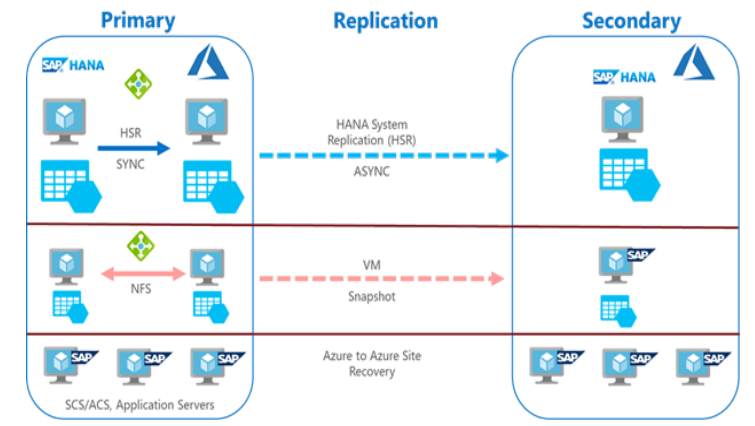
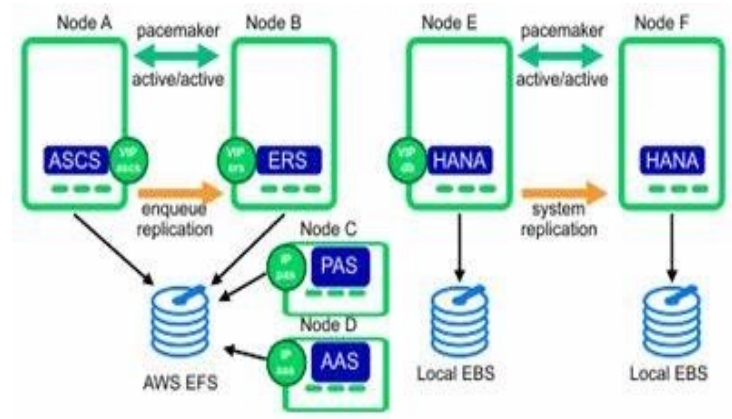
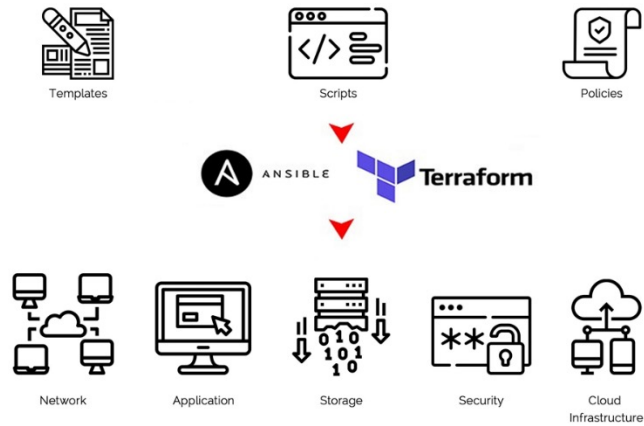


- No flexibility to **optimize / right-size infrastructure, based on usage**
- **DC scope limited only to SAP hosting.** Not extensible to Innovate - Data & AI, IoT, RPA
- **Short windows of time** before contract renewal to migrate to a different DC / Cloud

What did the customer decide?

- **Customer evaluated multiple hyper-scalers to choose Azure**
- **Detailed RFP process was followed and MSRCosmos was selected based on its previous track-record and partnership credibilities**

Solution

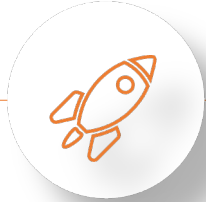


- Migration to Azure IaaS, leveraging IaC - ANSIBLE and Terraform
- 7 SAP environments across N+1, Non-Prod and Prod deployments with SAP CHaRM

- **100% of SAP hosts** standardized on SLES for SAP
- Highly Available architecture offering **99.99 uptime availability**, built on Azure and SLES for SAP

- **Azure Site Recovery (ASR)** for DR on Azure
- **SUSE Manager (SUMA)** for Linux Management, Patching and Operations Automation

Benefits



Fast-track migration completed in just 14 weeks, much before the actual estimated timelines



Reduced deployment time and HA complexity due to SLES for SAP



Reduced OS (SUSE) maintenance and operations time due to SUSE Manager (SUMA) deployment



Highly reliable and stable SAP environment due to standardization on SLES for SAP



Enhanced performance and availability of systems across SAP, SUSE and Azure leveraging Azure Monitor for SAP



Reduced Infrastructure cost and One-click DR through ASR (<15 Mins RPO and < 4 Hour RTO)

Future Plan

1

Ongoing optimization
of cloud utilization
and Cost

2

SUSE Trento
deployment for
improved monitoring
and checking against
best practices

3

Automation-driven
SAP Operations –
using Azure
Automation and RPA

4

Extension and
innovation around
S/4HANA core
leveraging **Azure**
Data & AI, IoT and
RPA

Three reasons customers choose SUSE

Market leadership

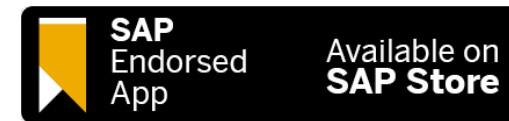
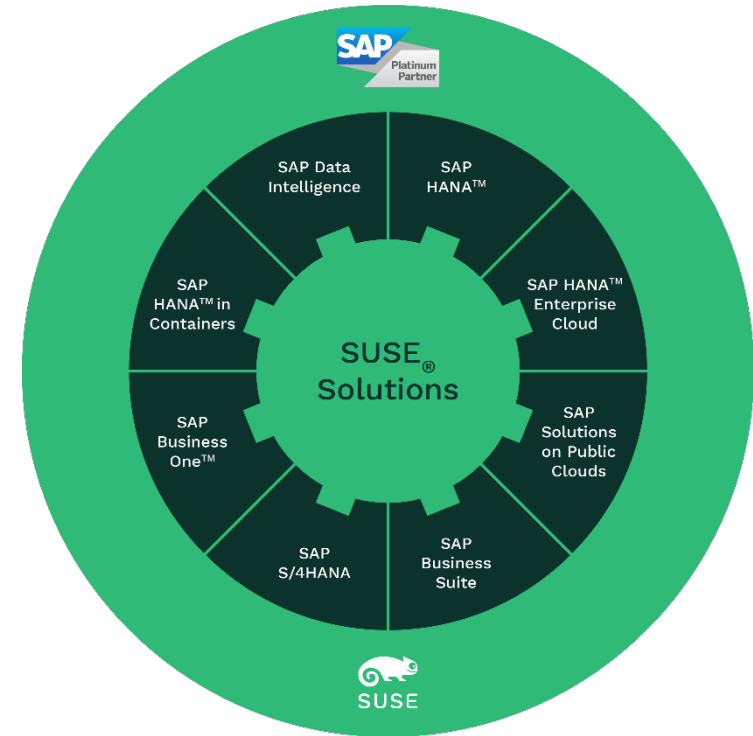
- Preferred platform for SAP HANA
- Broad partner ecosystem

Technical expertise

- First support for SAP solutions
- SAP-specific technical expertise

Innovation

- SAP co-innovation partner and customer
- Features to improve IT productivity



Run your SAP solutions on SUSE with help from MSR Cosmos

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