

# Embrace the Cloud Operating Model for SAP on Any Premise

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Director, NA SAP Alliances

SAPinsider  
Las Vegas

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**2023**

**SAP**insider

## Infrastructure challenges add risk to business operations

- Missed financial targets
- Lost consumer confidence
- Disruptive crisis management
- Competitive displacement
- Lack of innovation, differentiation


















## Unrivalled Relationship Makes **SUSE** Linux the Smart Choice for Deploying & Running SAP Workloads

- 18+ years of joint testing and development at the SAP LinuxLab
- SUSE Linux Enterprise is the leading platform for SAP workloads on Linux
- Seamless support from SAP and SUSE
- SUSE Linux Server for SAP Applications delivers built-in high availability, superior performance and security
- First available and leading OS for SAP HANA
- The platform powering SAP HANA Enterprise Cloud

# World's Largest Independent Open-Source Company

					
<b>Rancher Acquisition</b> <i>Closed on 1 Dec 2020</i>	<b>IPO on the Frankfurt Stock Exchange</b> <i>Completed on 19 May 2021</i>	<b>New Product Launches</b>	<b>Open Source Innovation</b>	<b>NeuVector Acquisition</b> <i>Closed on 28 Oct 2021</i>	<b>Building the SUSE Brand</b>
<ul style="list-style-type: none"> <li>▪ <b>Market leader</b> in Kubernetes management</li> <li>▪ <b>Platform</b> combining best-in-class Linux OS, market-leading Kubernetes CMP and pioneering edge capabilities</li> </ul>	<b>Largest</b> Enterprise Software IPO ever in EMEA <sup>(1)</sup>	 SUSE Linux Enterprise Server 15 SP3   SUSE Rancher 2.6   SUSE Linux Enterprise Micro 5.1	 Epinio   Harvester   Opni   Rancher Desktop	<ul style="list-style-type: none"> <li>▪ Provides <b>full lifecycle container security</b> in any mission-critical environment</li> <li>▪ <b>Accretive</b> to the group medium-term growth profile</li> </ul>	<ul style="list-style-type: none"> <li>▪ <b>First place</b> in <i>German Brand Awards</i> for "Excellence in Brand Strategy &amp; Creation – Brand Design"</li> <li>▪ <b>Two platinum awards</b> at <i>Hermes Creative Awards</i> for Company Branding and Branding Refresh</li> <li>▪ <b>Decision Maker Award</b>, Digitization Category – Presented by <i>WirtschaftsWoche</i> and <i>KPMG</i></li> </ul>

## Dell Technologies is an SAP Global Technology Partner

For over 25 years, organizations have used Dell Technologies' broad technology portfolio, combined with our global scale and deep customer engagements, to accelerate their SAP journey to digital transformation and the intelligent enterprise

**25+**

years of partnership and  
joint innovation with SAP

**15,000+**

joint customers  
globally

**60+**

joint engineering projects  
and certifications

**#1**

positions in  
infrastructure and  
client solutions

**5**

SAP Pinnacle and SAP  
Customer Innovation  
awards

**43**

STAR Awards from the  
Technology Services  
Industry Association

**180+**

countries in which we  
operate, in 54 languages

**35,000+**

full-time services and  
support team  
members

**24,000+**

global service centers





# Dell Technologies Enables the Multi Cloud Strategy for SAP

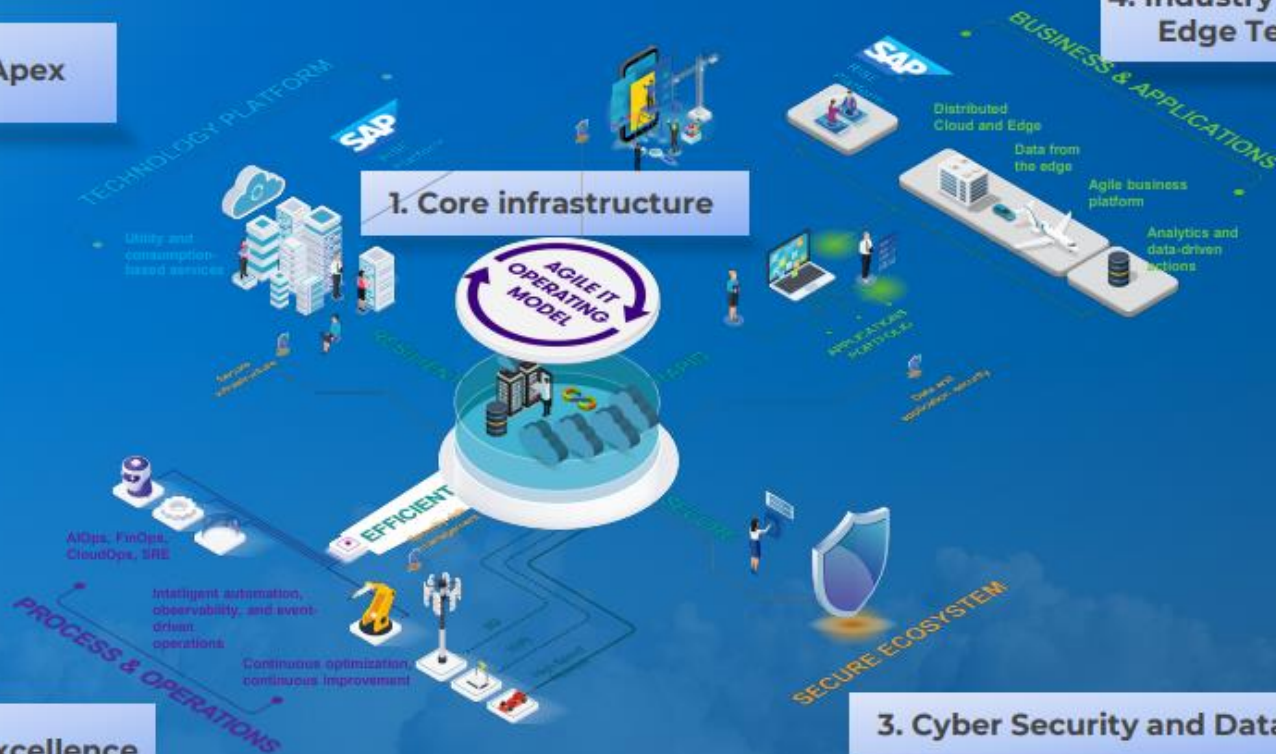
## 2. Rise on Apex

## 1. Core infrastructure

## 4. Industry Use Cases & Edge Technology

## 3. Cyber Security and Data Protection

## 5. Operational Excellence



# Majority of customers to keep SAP software landscape and data on-premises

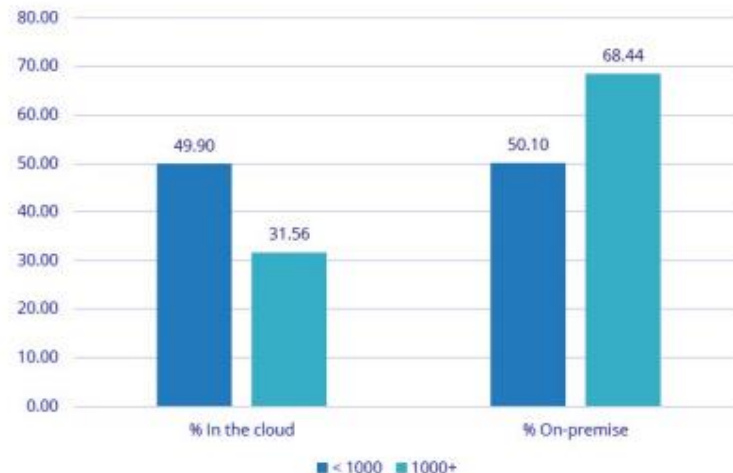


The **IDC** analysis shows that in the future **between 51-68% of all SAP Workloads will stay on-premise.**

According to **Gartner**, **80% of SAP HANA** deployments continue to be on-premises, and many client inquiries show a preference for deploying on-premises SAP HANA

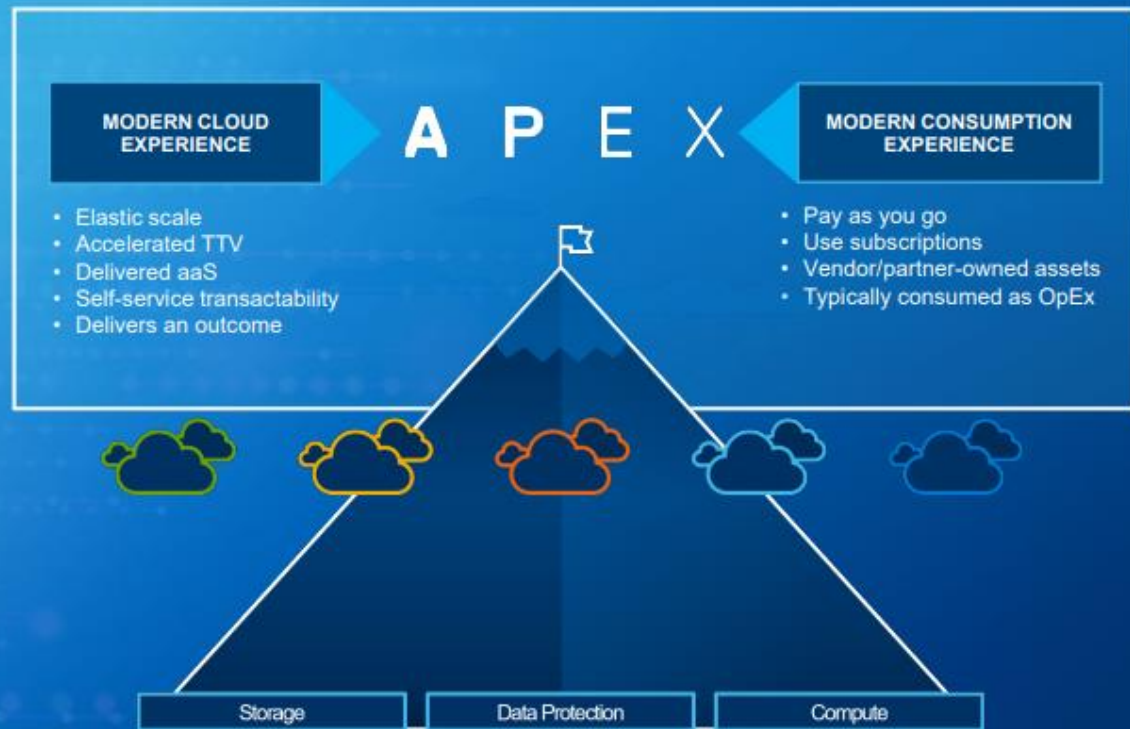


SAP aspirants, % business apps expected to move to the cloud when adopting SAP, by company size



# Customers want a cloud experience...

As they build and manage their environments



Take advantage of best-of-breed Dell innovation across clouds



Modernize your enterprise to secure and maximize your cloud experience



Consume technology in new ways to cut unwanted cost and complexity



# Dell Technologies supports your journey to the SAP intelligent enterprise, your way



RISE WITH SAP  
ON APEX



APEX IaaS



APEX Private Cloud



Dell Cloud-enabled  
Infrastructure

PERFORMANCE AND SCALE OF SAP-CERTIFIED, DELL TECHNOLOGIES  
INFRASTRUCTURE BRINGS THE CLOUD EXPERIENCE TO ANY PREMISE



STORAGE



SERVER



DATA PROTECTION



NETWORKING



CONVERGED & HCI

# Dell Tech Solutions

## Performance & Scale

All-Flash NVMe SCM, easy scale, low latency, high bandwidth

## DB Protection

DBA control of backup, recovery with replication

## SAP Landscape Management

SAP admins make DB copies, no matter the size

## DR & Continuous Availability

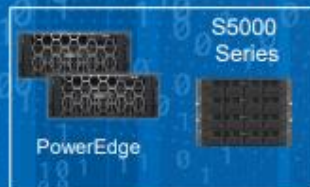
Proven zero RTO for critical DBs

## Foundation for IaaS | DBaaS

Begins with cloud-enabled infrastructure

# Dell Tech Infrastructure Portfolio

## SERVERS



### DIGITAL "CORE"

SAP S/4 HANA  
SAP NW ERP

SAP Business Technology Platform

### APP / DEV

Industry Solutions  
APP Extensions

## CONVERGED SYSTEMS



## STORAGE SYSTEM



## PROTECTION

PowerProtect S/W

PowerProtect  
DD Series Appliances

PowerProtect  
DP Series Appliances

## HYPER-CONVERGED



## Running SAP from Edge-to-Core



Servers



Storage



Protection



Converged



Hyper-Converged





Clark County, Nevada, consolidates and virtualizes on modern Dell infrastructure, migrates to SAP HANA.

### 80% reduction

in payroll financial posting processing time.

### 80% reduction

in financial actuals report processing time.

### 65% reduction

In grant management balance sheet reports processing time.

Powered by

PowerEdge

OpenManage

PowerMax

VMware vSphere

SAP HANA



We were able to buy high-end Dell EMC PowerEdge servers with massive processing power, four-socket machines with 26 cores per socket, hyper-threading so the OSs and the hypervisors see upwards of 200 CPUs per host, massive memory, lots and lots of powerful high-end Intel CPU-based hardware.

**John Parker**

Senior Systems Programmer, Clark County

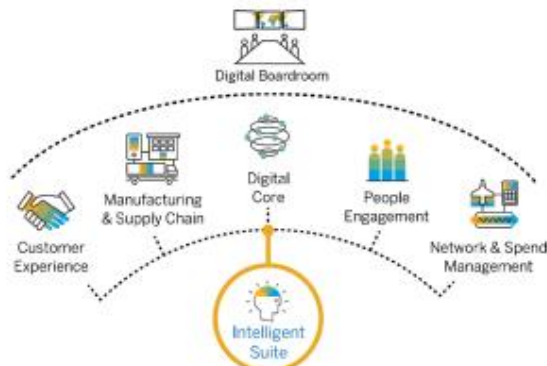
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**DELL** Technologies

# The transition to the Intelligent Enterprise

Begins with S/4HANA running in the “Digital Core”

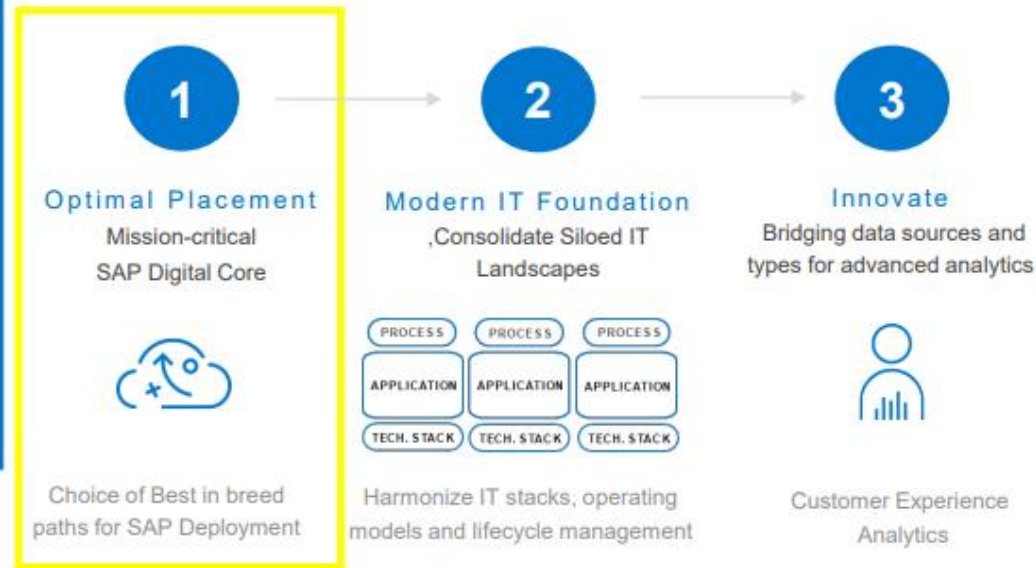
## Business “Digital Core”



Mission-Critical SAP



## Planning your Journey with Dell Technologies

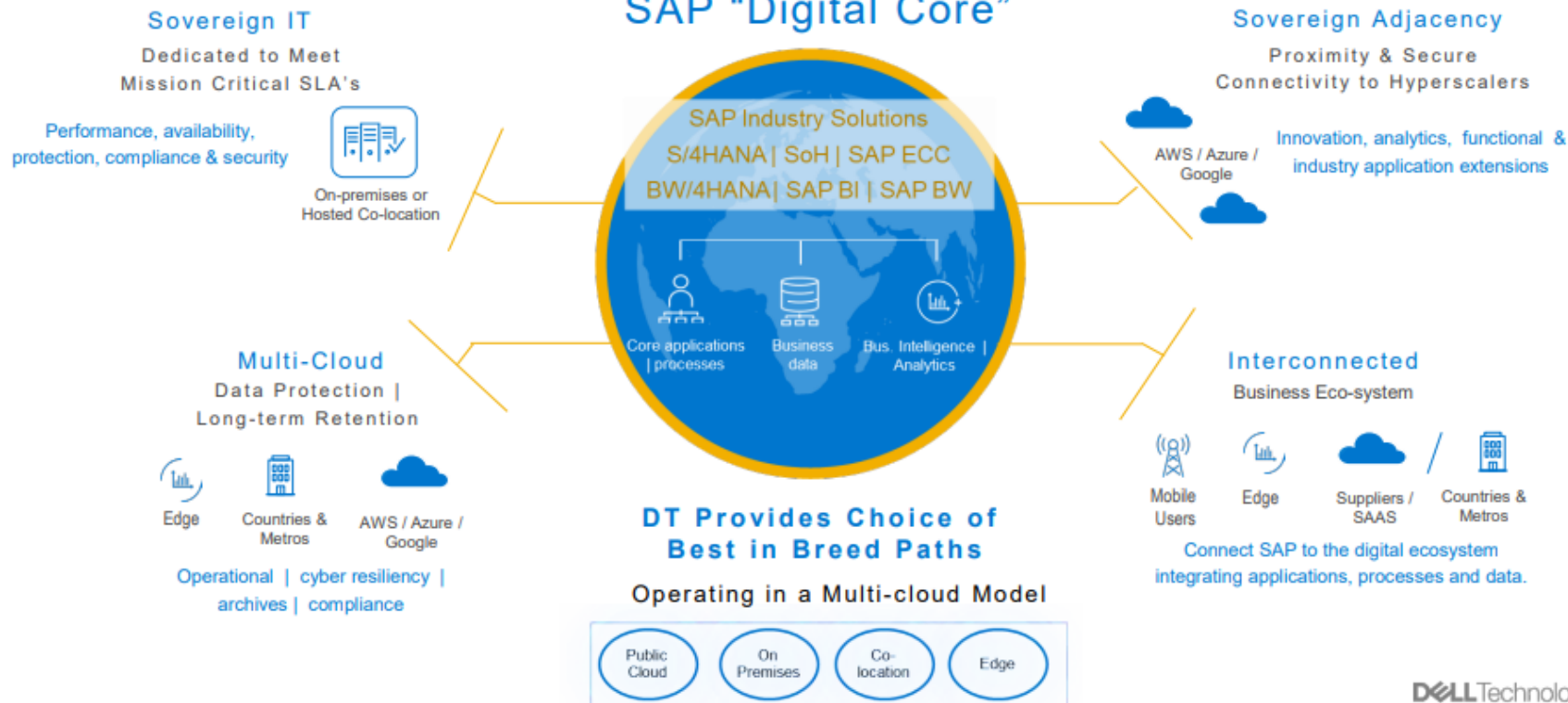




# Planning SAP deployments

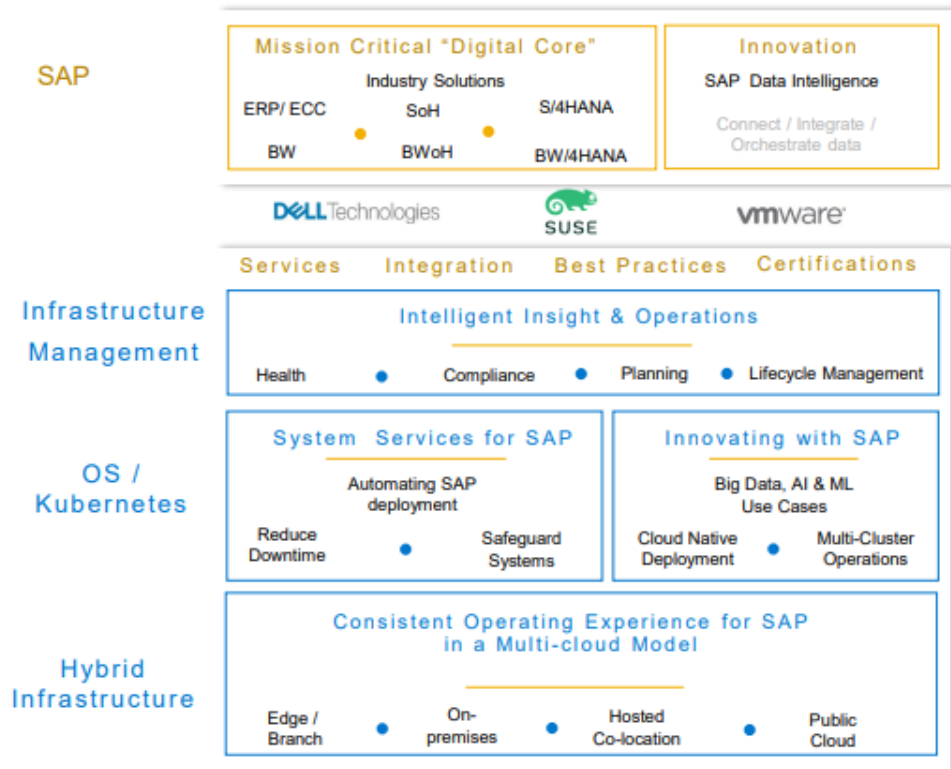
Starts with optimal placement of mission-critical SAP applications

## SAP "Digital Core"



# Setting a Modern IT Foundation for SAP

Harmonizing IT stacks, operating models and lifecycle management



## Enabling IT Outcomes

**Day 0**

Time to Use

System available for new SAP projects

**Day 1**

Production Ready

Infrastructure services to meet SLA's for SAP mission critical applications

**Day 2+**

Lifecycle Management

Infrastructure services to minimize downtime and maintain business productivity

# Your Journey. Your Way.

No matter where you are on your journey or which path you follow, you'll get there with **Dell Technologies digital foundation** for the SAP-powered intelligent enterprise.

[Dell.com/SAP](https://Dell.com/SAP)

**DELL**Technologies

# More than a Decade of Co-invention with SAP

2011

Linux for SAP HANA

2014

SAP HANA System  
Replication & Failover

2016

SAP HANA SR Scale-out

2018

Intel Optane™ for SAP  
HANA

2020

Full SAP stack  
deployment  
IBM Power VM  
for SAP HANA

2002

Open source HA for  
Netweaver

2015

Amazon EC2 OS for SAP  
SAP HANA on IBM Power  
SAP HANA in AWS  
SAP HANA cost, optimized,  
multi-tenant

2017

SAP HANA in Google,  
IBM, Azure clouds  
Live kernel patching  
for SAP

2019

IBM PowerVM™  
PMEM for SAP HANA





# Linux is a requirement

- SAP support for HANA restricted to one operating system – Linux
- For those not running Linux already, there is a learning and support curve to address
- Currently just 2 Linux Vendors certified
  - A red one
  - A green one



# SUSE delivers SAP-endorsed Linux



## Trusted by SAP

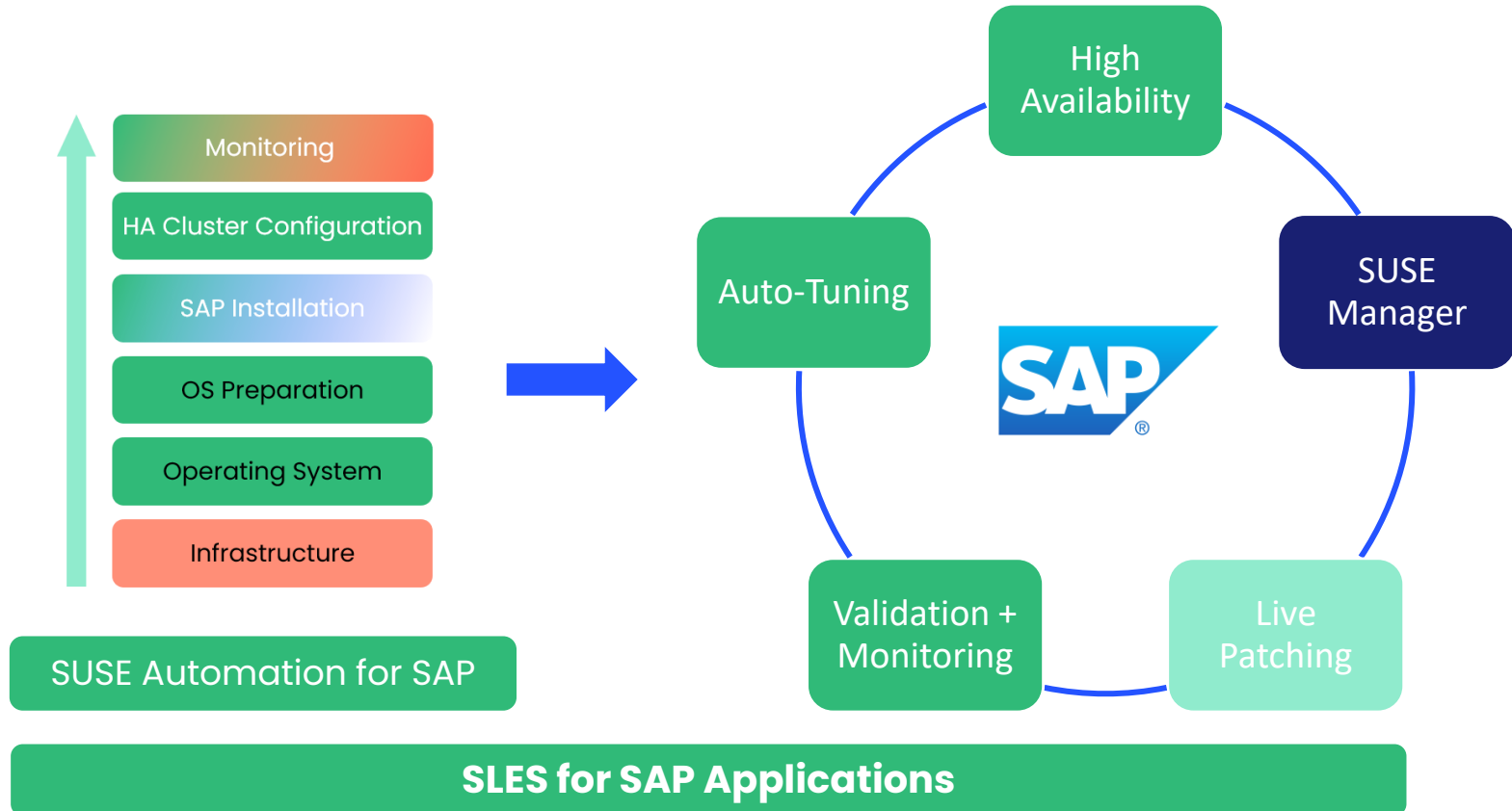
- 20+ years of collaboration
- Reference development platform
- Internal & customer systems

## Preferred by SAP customers

- Leading OS for SAP HANA
- Exclusive platform for SAP Business One
- 300+ customer references



# Safeguarding Your SAP Landscape & Operations



# Reduce Downtime for Critical SAP Operations



SUSE Linux Enterprise Server for  
SAP Applications

## SAP HANA System Replication Agents

Fast, reliable recovery

- Automate SAP HANA failover & recovery
- Four recovery scenarios

## SUSE Linux Enterprise High Availability Extension

SAP system failover in seconds

- Full clustering solution
- High Availability / Disaster Recovery





# Enhance Security to Maintain Uptime



Security certifications

Live Linux kernel patching

Plus:

- SAP HANA Firewall
- Remote Storage Protection

**SUSE Linux Enterprise Live Patching**  
**SUSE Linux Enterprise Server for SAP Applications**



## Live Patching – Update without Disruption



### APPLICATIONS

- Update applications without disruption



### LIBRARIES

- Update key libraries (the ones HANA uses) without disruption



### LINUX KERNEL

- Update the Linux kernel without disruption

User Space Live Patching  
ONLY available from SUSE



# Reduce the time to deploy SAP services



SUSE Linux Enterprise Server for SAP Applications  
SUSE Manager  
SUSE Global Services

## SUSE Manager deployment

Consistently provision all services

- Deploy SAP HANA clusters on premises and in the cloud
- Supports YaST, Salt and Terraform

## Configuration packages

Simplified SAP Notes

- Built-in tuning and configuration
- Optimize for specific SAP applications and platforms

## Deployment automation

Install SAP systems faster

- Unattended installation on premises and in the cloud
- Deploys OS and SAP apps
- Includes deployment of high availability

## SUSE Assist services

Accelerated implementation

- Solution expertise onsite and remote
- SAP HANA high availability
- SUSE Manager



# Where to find more information

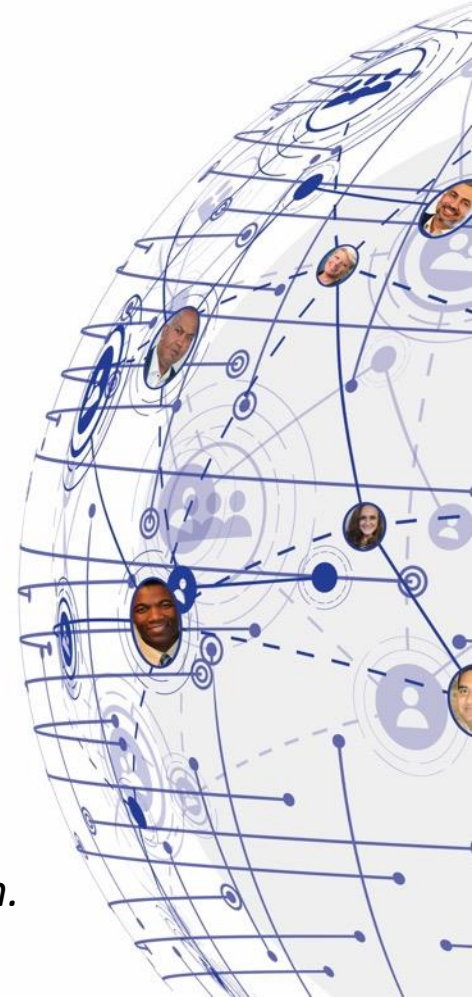
- SUSE sessions here at SAPinsider –
  - 2:30p today – *Secure & Efficient SAP Deployments*
  - Wednesday, 3/22 -
    - 10:30 SUSE's **Diego Akechi** with Microsoft – *SAP in the Public Cloud: Lessons Learned*
    - 11:30 SUSE's **Sherry Yu** with AWS – *Helping to Modernize & Build a Resilient Landscape*
    - 11:30 SUSE's **Don Vosburg** – *Achieving Day 2 Operational Excellence*
    - 2:30p SUSE's **Tobias Kutning** with SAP – *Secure your SAP Environment...*
    - 4:30p SUSE's **Juan Herrera** – *Making the Right Platform Choice...*
- <https://www.suse.com/partners/alliance/sap/>
  - Landing page of SUSE's SAP Alliance and Solutions
- <https://www.suse.com/campaigns/goodbye-downtime/>
  - Helpful Resources for Reducing Downtime
- <https://documentation.suse.com/sles-sap/trento/single-html/SLES-SAP-trento/>
  - Getting started with Trento and Trento Premium
- <https://www.suse.com/campaigns/cloud-for-sap/>
  - SUSE solutions that Accelerate Your Cloud Vision

# Thank you!

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*Please remember to complete your session evaluation.*





# SAPinsider



## SAPinsider.org

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and fastest growing  
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with  
more than 600,000  
members across  
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