MARCH 2023



Accelerate your SAP S/4HANA Migration

Safeguard your SAP S/4HANA Environment with AWS and SUSE

Presenters



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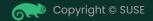
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SUSE, SAP & AWS

Partnership and Co-Innovation for Customer Success



23+ years of SAP & SUSE

Partnership

85%+

of HANA

deployments



of SAP **Business One** on HANA

95%

Power



of SAP apps on Linux

70%

SUSE for SAP is an SAP Endorsed App

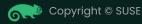
SAP

Runs day-today on SUSE

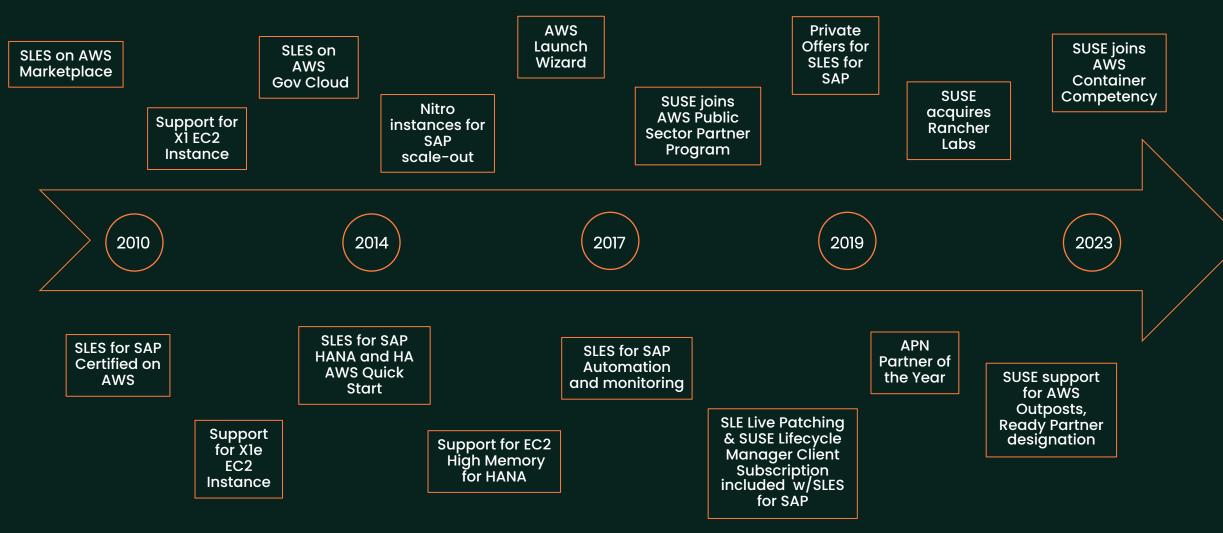
HANA

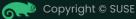
developed on SUSE for SAP of HANA on IBM HEC &

> RISE run on SUSE



10+ Years of Collaboration and Innovation





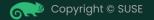
Challenges that we solve together

- Many requirements to follow to be SAP compliant
- High Availability deployments can be complex
- Downtime from planned maintenance and unplanned events
- Lack of visibility and insights into the SAP landscape, especially HA

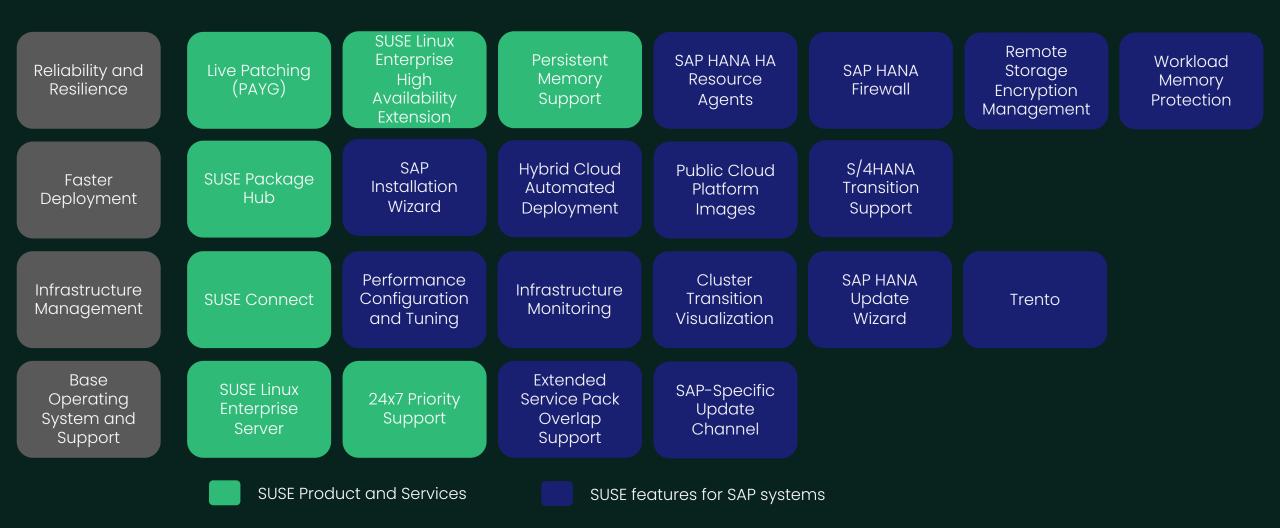


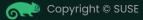


Accelerate the migration of SAP landscapes.

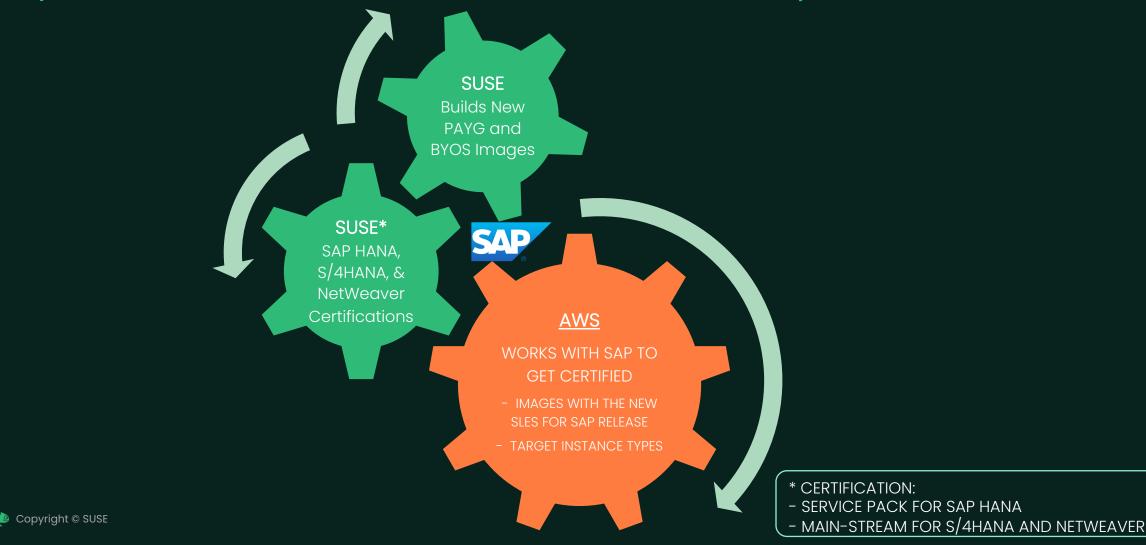


SUSE Linux Enterprise Server for SAP Applications

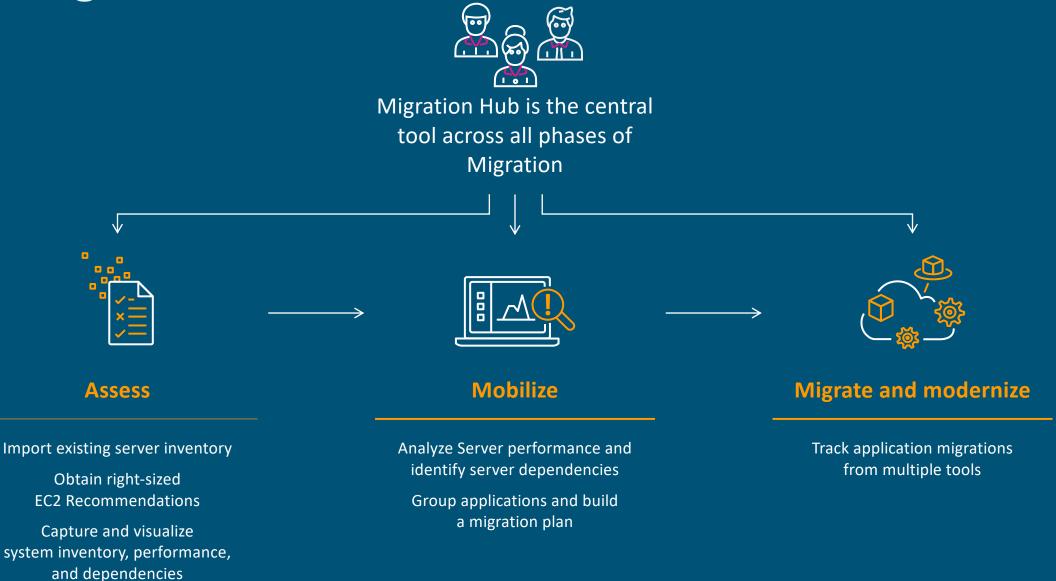




Certification Process for SAP HANA and NetWeaver Every new HANA release and SLES for SAP release follows this process



AWS Migration Hub Orchestrator for SAP



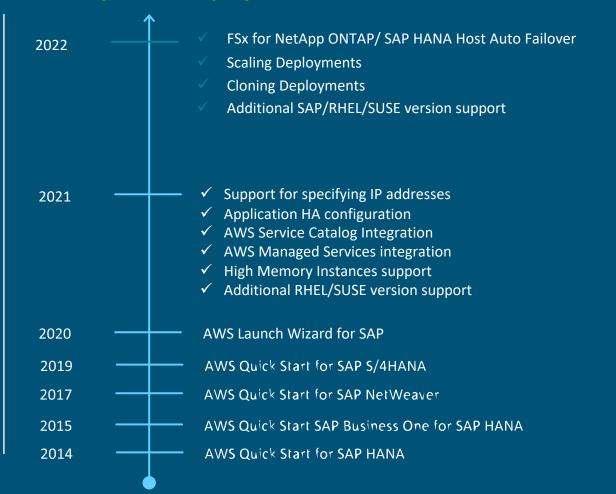
aws

Automating SAP deployment with AWS Launch Wizard



AWS Launch Wizard is a free service that provides a guided experience for configuring and deploying SAP on AWS

- Intuitive interface built for SAP users
- Recommends AWS resources and configuration based on SAP best practices
- Reusable infrastructure settings for infrastructure-ascode

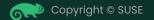


History of SAP deployment innovation

SUSE Update Infrastructure in AWS



Reduce outage disruption and provide near-zero downtime



Providing Resilience



Do Nothing

- Use monitoring / or helpdesk to identify when service is down.
- Restart instance manually

AWS Capability

- Monitoring and _ Auto Restart of VM
- Protects against _ host hardware / instance failure

— RTO?

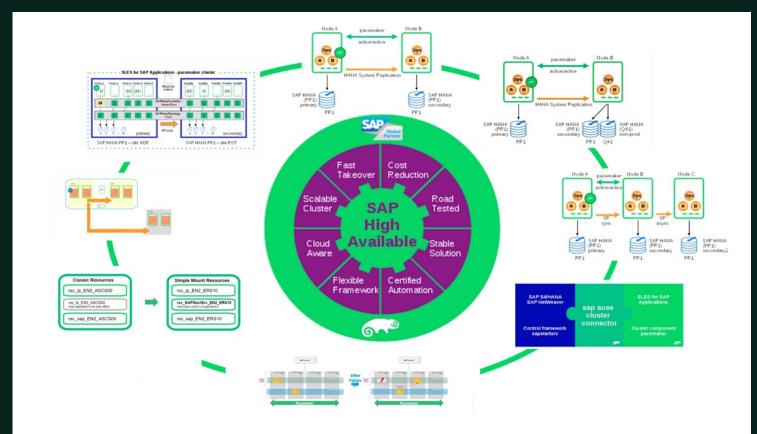
SUSE High **Availability Extension**

- Protects against _ hardware, service and application failures.
- Tightly integrated with Operating System
- Fully Automated

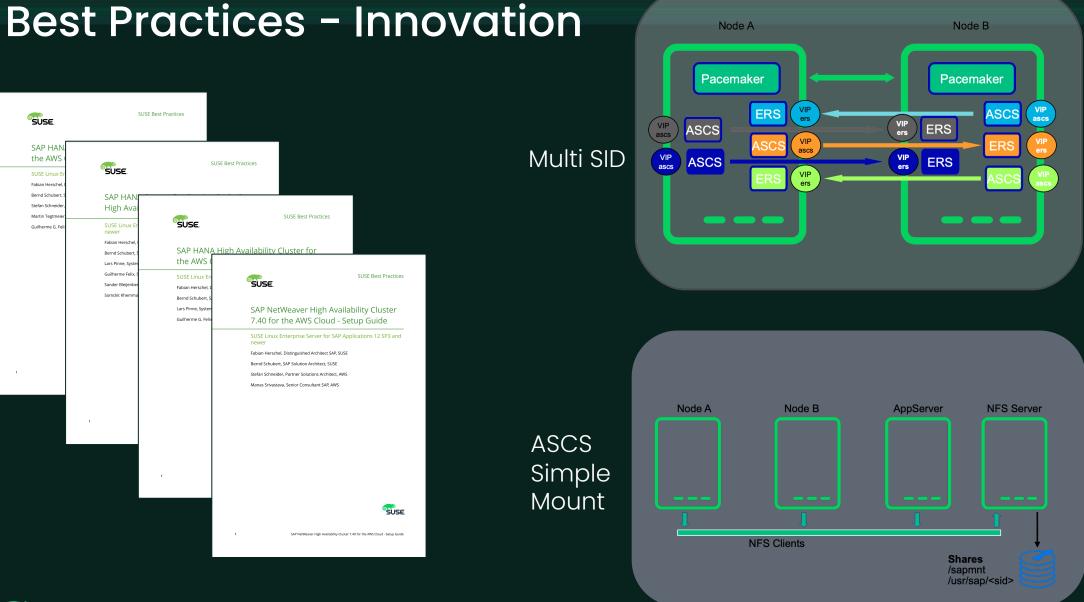


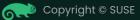
SUSE <u>Develops</u> HA Solutions for SAP

- SUSE is the innovation leader, and source of expertise
- SAP HANA HA Solutions developed by SUSE
 - Automated Failover of HANA System Replication
 - Scale-Up & Scale-Out
 - Fast-Dying Index Server
- SAP NetWeaver and S/4HANA HA Solutions developed by SUSE
 - sap-suse-cluster-connector certification reference for any Unix/Linux cluster vendor
 - ENSA1 certified ASCS/ERS HA
 - ENSA2 certified ASCS/ERS HA
 - Certified Simple Mount Structure Only available from SUSE





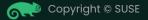




Rolling Update (cluster)

- Run migration process on test systems first
- Upgrade one cluster node at a time
- The remainder of the cluster nodes remains running





Live Patching – Update without Disruption

User Space Live Patching ONLY available from SUSE



 Update applications without disruption, when prerequisites are met, and the user space live patching toolkit is used



Update key libraries

 (e.g., glibc, openSSL,
 dependencies of HANA)
 without disruption



• Update the Linux kernel without disruption



Maximize Insights



SAP Customer Challenges

Managing the complexity of SAP environments is one of customers' biggest challenges

- SAP systems are mission-critical, even a brief downtime period can cause productivity, financial, and reputational damage to a business or business segment.
- At the core of SAP systems is the SAP HANA database – part of a complex setup.
- SAP ECC maintenance ends in 2027 therefore there is a sense of urgency for customers to react. We expect many customers will migrate to S/4 HANA and they will need additional new skills.
- Customers' top issues that are raised to SUSE
 Support: Clustering and High availability

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Generic technical challenges for SAP customers

Source: ASUG survey 2021

How can SUSE help customers manage complex SAP environments?

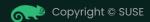
Trento: Safeguard your SAP Operations

Key Capabilities (Ambition)

- Automatically discover servers, clusters, systems and full landscapes
- Check their configuration against best practices
- Automatically reflect hyperscaler requirements
- Surface any issues in an easy-to-use web UI
- Continuously stay up-to-date with evolving SAP, SUSE and hyperscaler recommendations
- Monitoring of SAP landscape
- Visualization of complete SAP environment

Value to customers

- Peace of mind that all is setup correctly and running smoothly
- Audit readiness
- Actionable best practices help customers to quickly implement them and adapt systems



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A	Home
Ţ	Hosts
	Pacemaker Clusters
Ģ	SAP Systems
	HANA Databases
=	Settings
0	About

Q

Pacemaker Cluster details 🌣

Pacemaker Clusters > hana_cluster

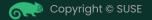
Hostname

Cluster name hana_cluster		ster type: NA scale-up	HANA system replication mod sync	de:
SID: PRD	SAI stat		HANA secondary sync state:	
Stonith type: external/sbd		8 last written: 9 Oct 12 13:20:27 21	HANA system replication ope logreplay	eration m
Stopped	resources			
No stopped re	esources			
Pacemo	aker Site c	letails		
Sitel				
	Hostname	IP	Virtual IP	Role
9	vmhana01	10.74.1.10	10.74.1.12	НА
Site2				
		15	10.115	

Virtual IP

Role

Wrap Up



Key Takeaways

Four Themes

- AWS and SUSE innovate for mission-critical workloads
- Experience a secure, faster, fully tested approach to accelerate the migration of SAP landscapes to AWS
- Reduce outage
 disruption and provide
 near-zero downtime
 from planned
 maintenance and
 unplanned system
 events
- Maximize insights to proactively safeguard the SAP landscape

https://www.suse.com/partners/alliance/aws/ https://aws.amazon.com/sap/





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