SAPinsider

How AWS and SUSE Helped Customers Modernize and Build a Resilient SAP Landscape

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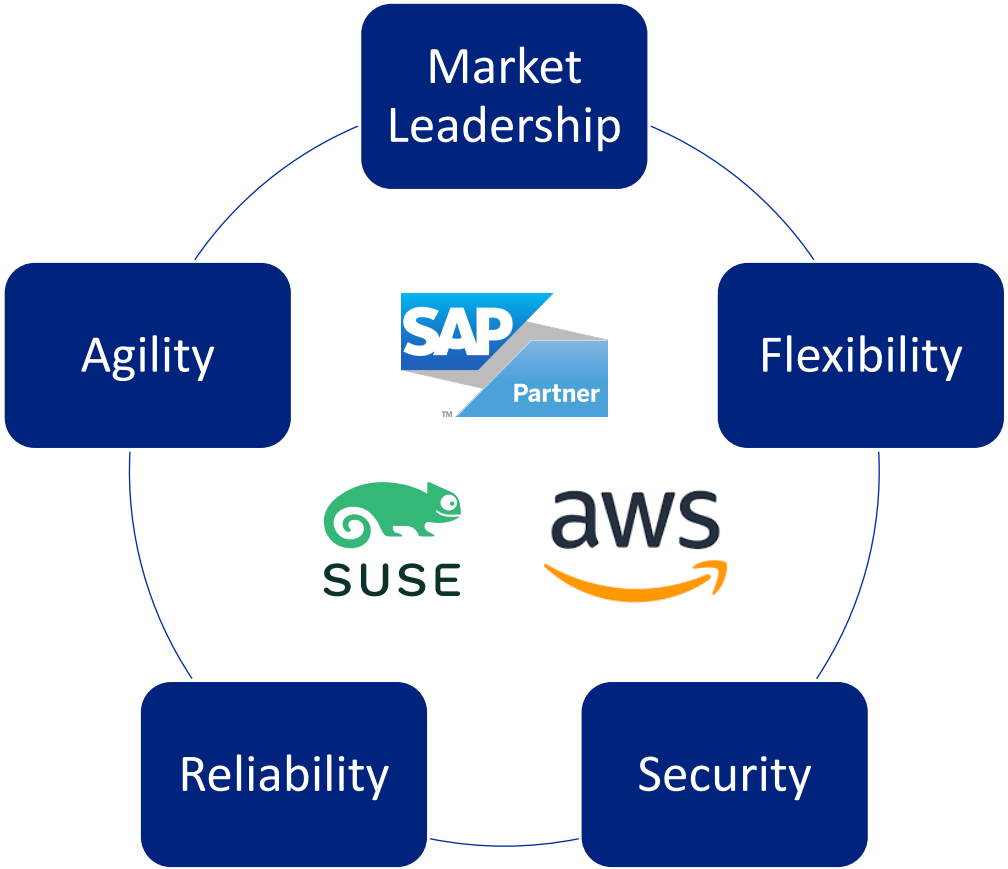
What We'll Cover

- Customer Migration Overview
- Why AWS & SUSE
- Challenges On-prem vs Solutions on AWS & SUSE
- Lessons Learned
- Q & A

Customer Migration Overview

What's Migrating From	New Project Approach
20+ years old SAP ECC system	SAP On-Premise edition built on **AWS** cloud infrastructure, IaaS approach
Significant customization in the legacy systems	Greenfield implementation, clean core
Legacy system not meeting new business requirements	Standardize on **SUSE** SLES for SAP Applications for HA and management solutions

Why AWS & SUSE


Market Leadership
Flexibility
Security
Reliability
Agility
SAP Partner
SUSE
aws

Challenge – High Availability & Disaster Recovery

Challenge On-prem	Solution on AWS & SUSE
One geo datacenter; Limited DR solution	Geographic disaster recovery on AWS global infrastructure
Limited HA solutions; No HA clusters to protect from single point of failure	SUSE HAE cluster with Multi-AZ architecture
High database recovery time	Automated HANA System Replication failover using SUSE High Availability solution, recover in minutes, no data loss

Challenge – Service Delivery

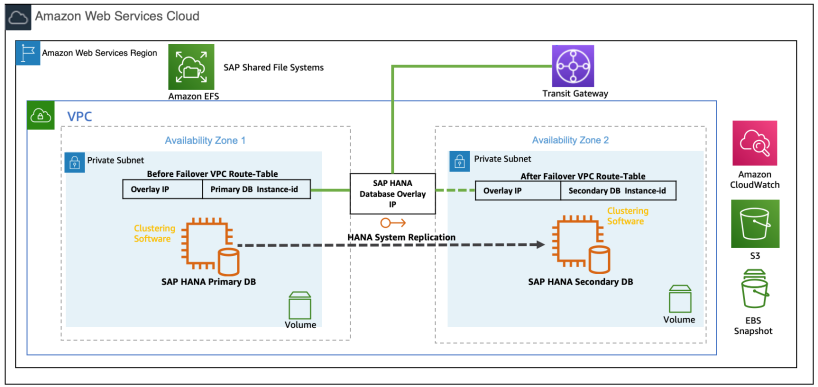
Challenge On-prem	Solution on AWS
Large hardware outlay to build or retrofit a new datacenter	No need to purchase new hardware, on-demand on AWS
New SAP environment takes months	Automated spin up of new SAP environment, in minutes
Human errors in the manual process	Best practices baked in the CI/CD process

Lessons Learned – Maintain SLA

Don’t & Do’s

- Do protect Single Point of Failure through SUSE HA Solutions, integrated with AWS infrastructure
- SUSE HA solutions decrease MTTR by:
  - Programmatically detecting failures
  - Automating failover and recovery in response to failure
- Do thoroughly test the clusters using test scenarios provided by AWS & SUSE
- Don’t do QA in production, have a pre-prod for QA

Reference Architecture



Lessons Learned – Use Support and Services

Planned Go-Live	Day 2 Operations
AWS IEM (Infrastructure Event Management)	AWS Enterprise Support
SUSE Health-Check service	SUSE Premium Support

Lessons Learned – Cost Optimization

AWS	SUSE
Saving Plans	Saving Plans of SLES for SAP Applications
	Private Offers

Lessons Learned - Maintenance

- Use HA to avoid disruption like instance retirement or other issues
- Use HA to rolling update your HANA systems running in the cluster
- Use On-Demand Capacity Reservations for planned maintenance window, to handle CF initial load or peak time, and avoid Insufficient Capacity Error

Where to find more information

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

Thank you! Any Questions?

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