



April 20, 2022

Accelerate the Migration to SAP S/4HANA in the Cloud



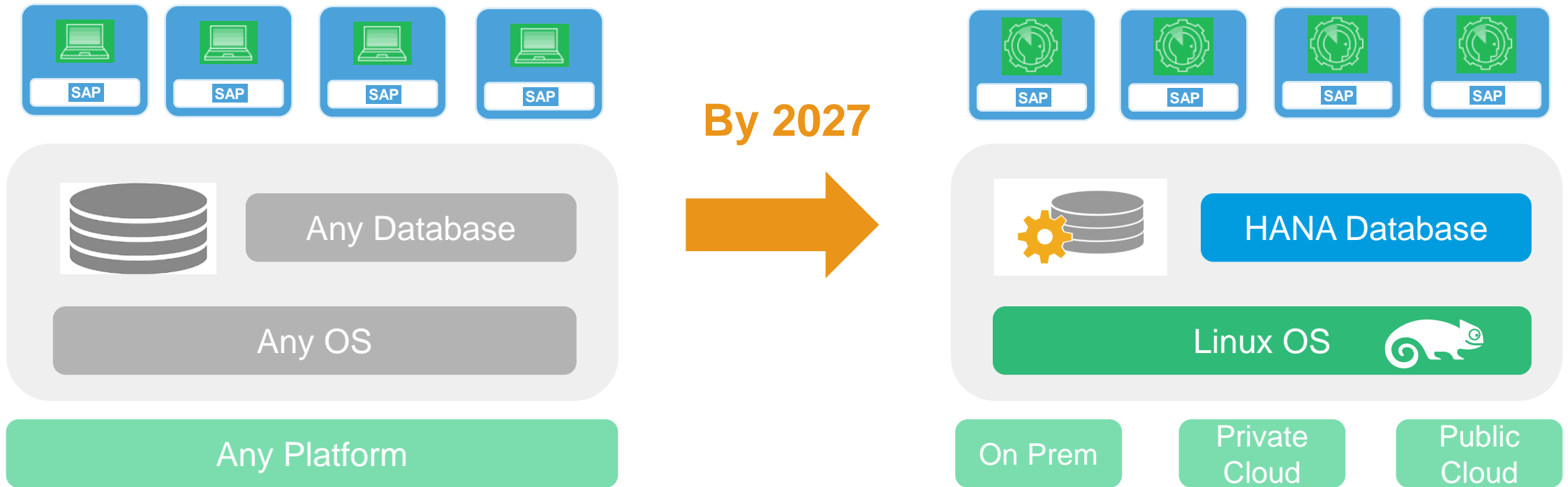
Today's Speaker

Cari Rockwell
Senior AWS Alliance
Manager
SUSE
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The Journey to SAP HANA

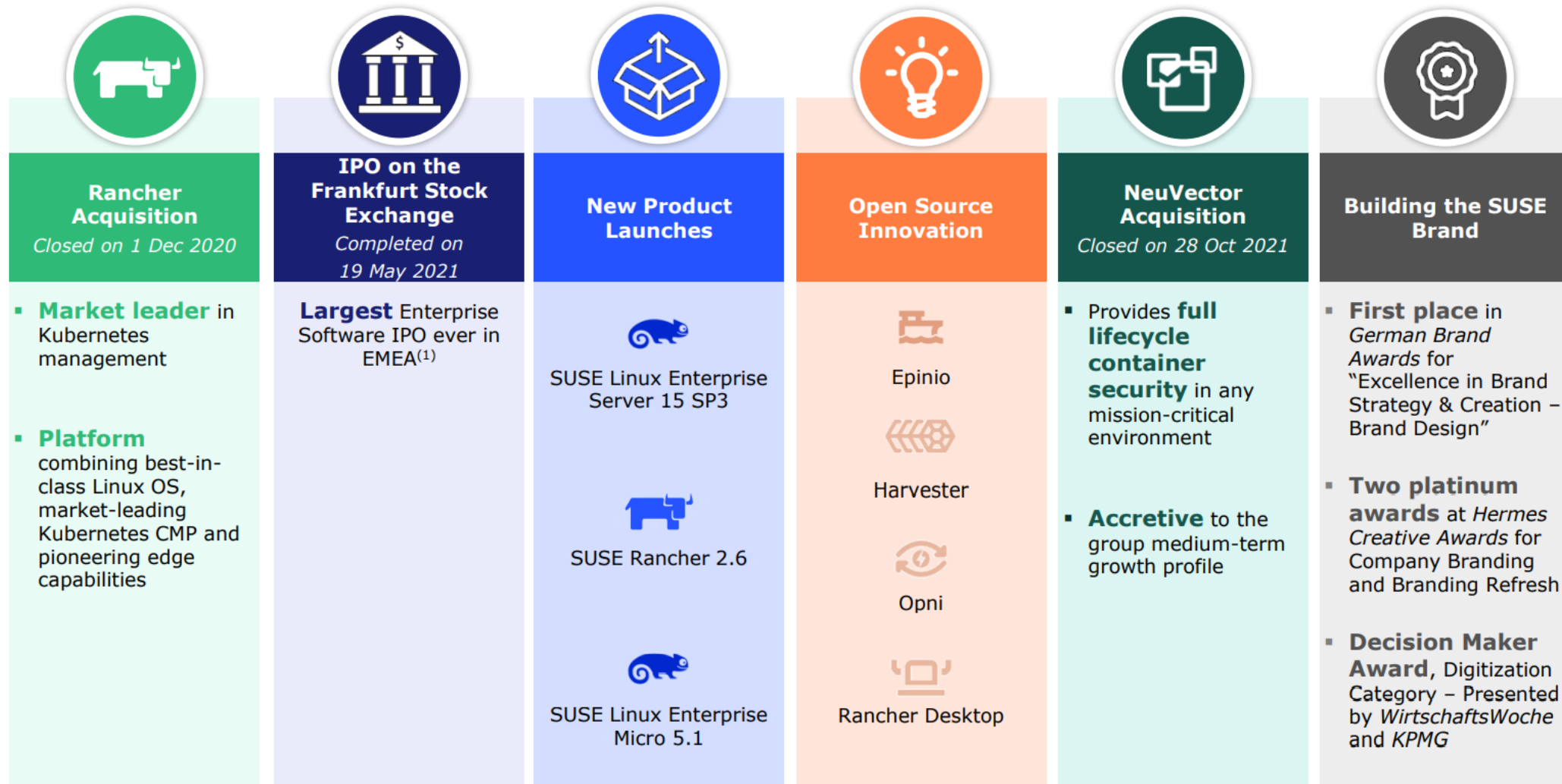
- SAP requires migration to SAP HANA by 2027
- SAP HANA is only certified on Linux, SUSE first, then IBM-RedHat
- Roughly 40,000 customers running SAP ERP need to migrate, 31% are live, 13% have started to move *
- Customers need help with the imminent deadline






SUSE Today

World's Largest Independent Open-Source Company




SUSE – Enterprise Linux Leader for SAP Infrastructures





kubernetes


Catalog Security


 **SUSE RANCHER**
The platform for managing all Kubernetes distributions


Storage Governance

 **RKE**
Datacenter

 **K3S**
Edge


 **LONGHORN**
Block Storage

 **NeuVector**
Container Security



Linux

Compliance Security

 **SUSE Linux Enterprise**
The most adaptable Linux operating system

Availability Management

SLE Server

SLES for SAP Applications


SUSE Manager


Other Linux


Hybrid Cloud Infrastructure


Dev



Datacenter



Cloud



Branch



Edge


Support & Services



SAP Data Intelligence


SAP HANA


SAP S/4HANA


SAP HANA Enterprise Cloud


SAP Business One



SAP
Endorsed
App

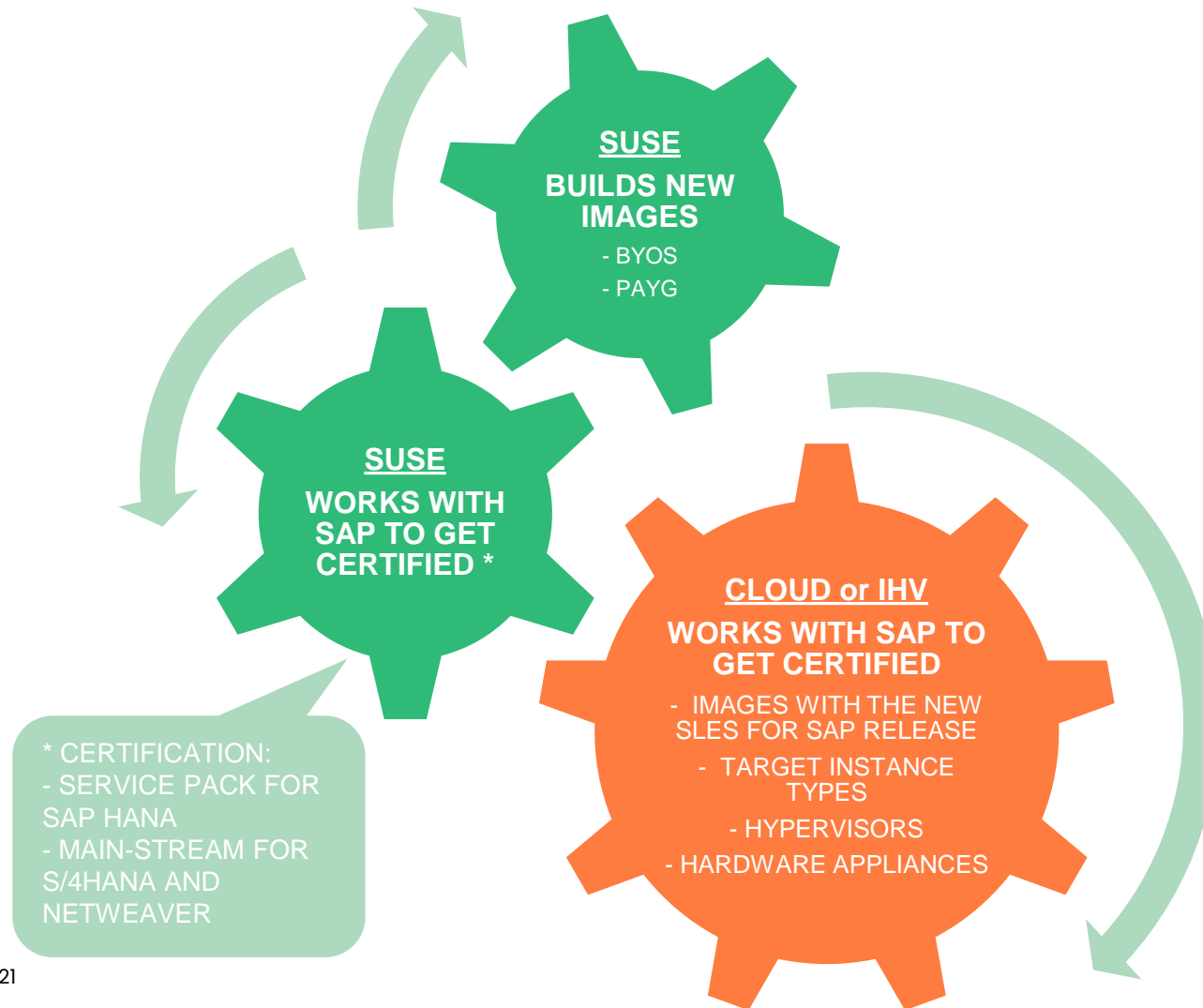
Available on
SAP Store



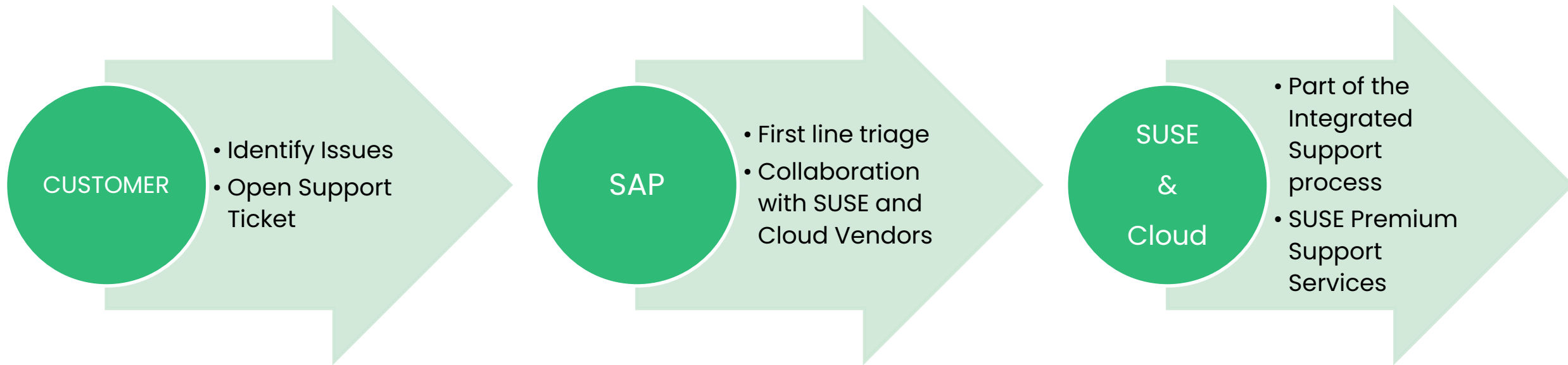
SAP HANA and NetWeaver Certification in the Cloud

Certification Process for SAP HANA and NetWeaver

Every new HANA release and SLES for SAP release follows this process



Integrated Support Process with SAP, Cloud Vendors & SUSE





SUSE Solutions for SAP

Market Leadership, Innovation & Agility

SAP HANA, SAP Data Intelligence, SAP Business One developed on SUSE

SUSE always the 1st to market with SAP:

- **SAP Deployment Validation and Monitoring (2022)**
- **Azure Automation Framework for SAP (co-dev, 2021)**
- **SAP Data Intelligence Validated on Rancher RKE (2021)**
- **Full SAP Automation & Monitoring (2020)**
- **Azure Monitor for SAP (co-dev, 2020)**
- **GCP SUSE High Availability Extension (HAE) (2020)**
- **IBM PMEM for SAP HANA (2019)**
- **IBM Power VM for SAP HANA (2019)**
- **Azure VM HA SBD Fencing (2018)**
- **Azure HANA Large Instance (HLI) (2018)**
- Intel Optane™ for SAP HANA (2018)
- Certified KVM for SAP HANA (2018)
- Live kernel patching for SAP (2017)
- First AWS EC2 OS for SAP (2015)
- SAP HANA System Replication HA (2014)
- Open-Source HA for NetWeaver (2012)
- OS for SAP HANA (2011)

SUSE's Market Leadership

- **70%** of all SAP applications on Linux
- **85%** of SAP HANA installations
- **99%** of IBM Power Platform
- **100%** of SAP Business One deployments
- **Reference Platform** of "RISE with SAP"
- SUSE powers **SAP's Internal and External systems**
- **300+** Success Stories and Case Studies
- **20+** years of collaborative innovation with SAP
- **SAP's** Reference Development Platform

Trusted By Customers Across All Industries

Finance



Information Technology



Media and Entertainment



Healthcare



Government / Defense



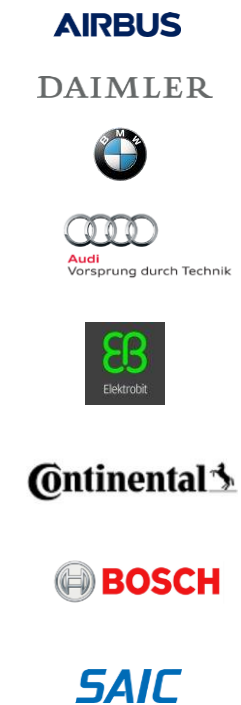
Retail



Telecom



Manufacturing & Automotive



Technology and other industries



SUSE's Innovations for SAP S/4HANA and Cloud Migration



AUTOMATION

- Automated SAP landscape deployment in the cloud
- Built-in best practices to speed up provisioning and reduce errors
- Reduce deployment from months or weeks to days



VALIDATION

- Rule based auto detection of SAP HA configuration issues
- Powerful pre-go-live validation to ensure quality
- Continuous check in production to avoid deviation and outage



MONITORING

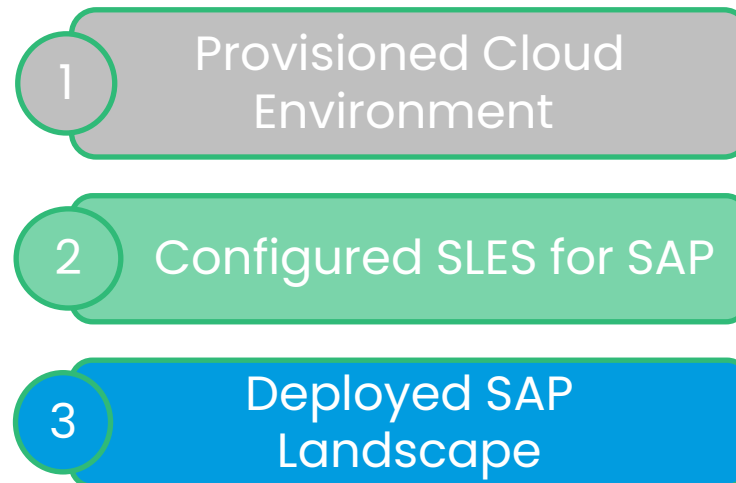
- Gain insights into SAP HA clusters - unique in the market
- Proactive monitoring on the healthiness of the SAP landscape, fix issues before outage happens



End to End Automation of SAP Landscape



- Best practice driven
 - Substantial reduction in man-hours
 - Reduced probability of errors
 - Minimum manual intervention
- SAP HANA, S/4HANA, and NetWeaver
 - Single node and clusters
 - On-premise and cloud
 - Implement monitoring



SAP Validation & Monitoring – Trento

(planned shipment as part of SLES for SAP)

Trento is the Day 2 Operations Manager for customers' HANA and S/4HANA deployments

Configuration checks

Check system configurations against best practices and visualize problems;
Provide recommendations.

Monitoring of SAP Landscape

Provide key metrics for SAP systems with alerting; include cluster resources to avoid outage

Visualization of complete SAP environment

Presents complete SAP environment, clusters, systems and their relations in a familiar way.



AI based system checks and recommendations

AI based analysis of log files and systems to detect errors and bottlenecks – and provide recommendations .based on industries' best practices.

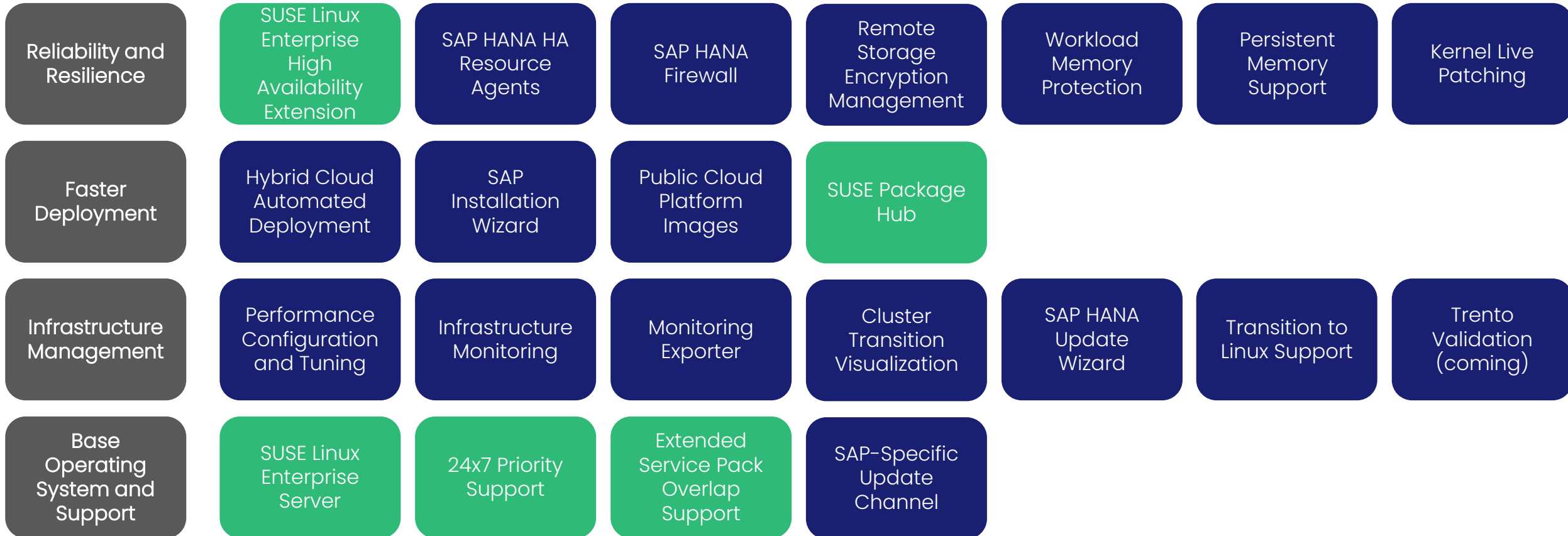
Can be deployed anywhere

Containerized Application that can be deployed wherever customers' SAP landscapes exist – on-prem or in the cloud

Ease of use

Single click install; easy to use web UI.
Discovers servers, clusters, systems and full landscapes.

SUSE Linux Enterprise Server for SAP Applications



 SUSE Product and Services

 SUSE features for SAP systems





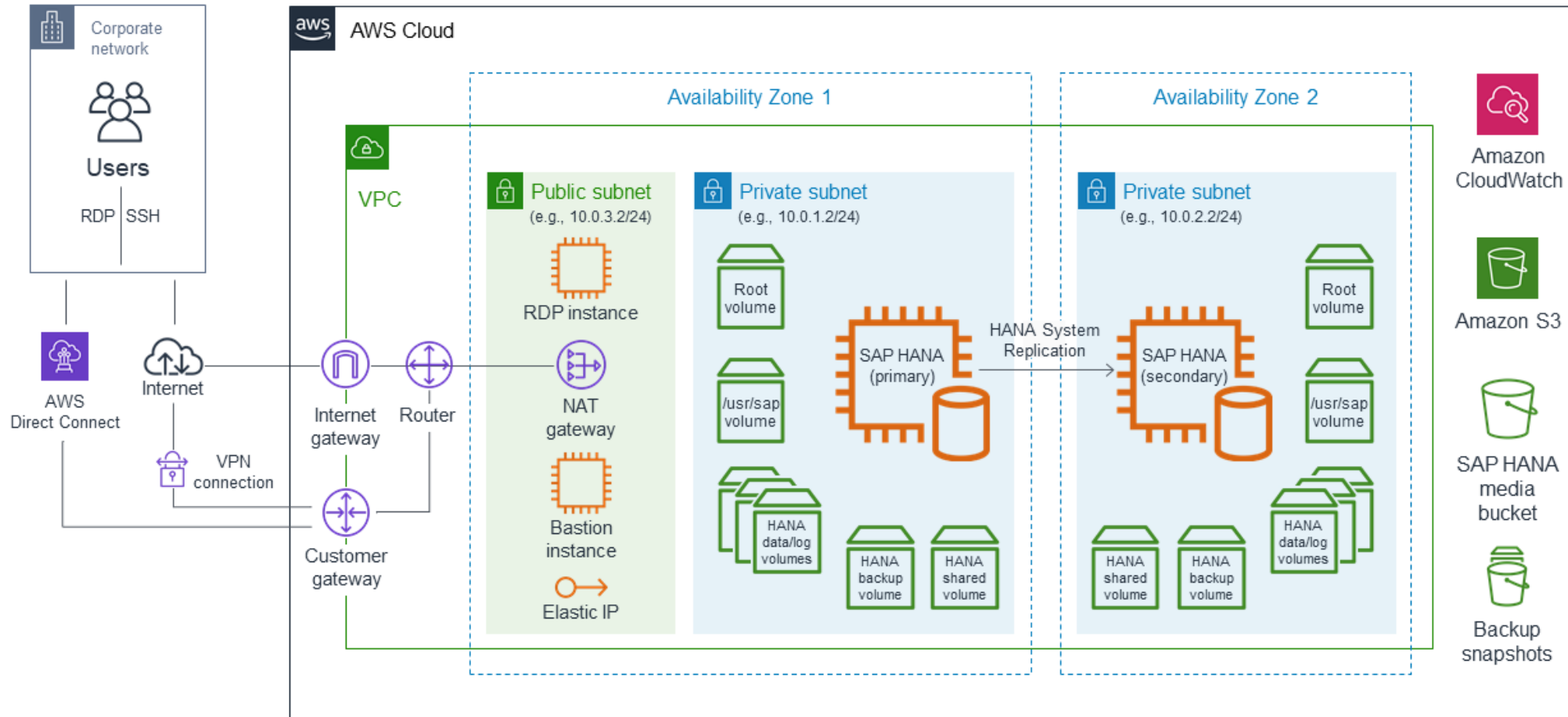
Say Goodbye to Downtime

Solutions to Reduce Unplanned Downtime

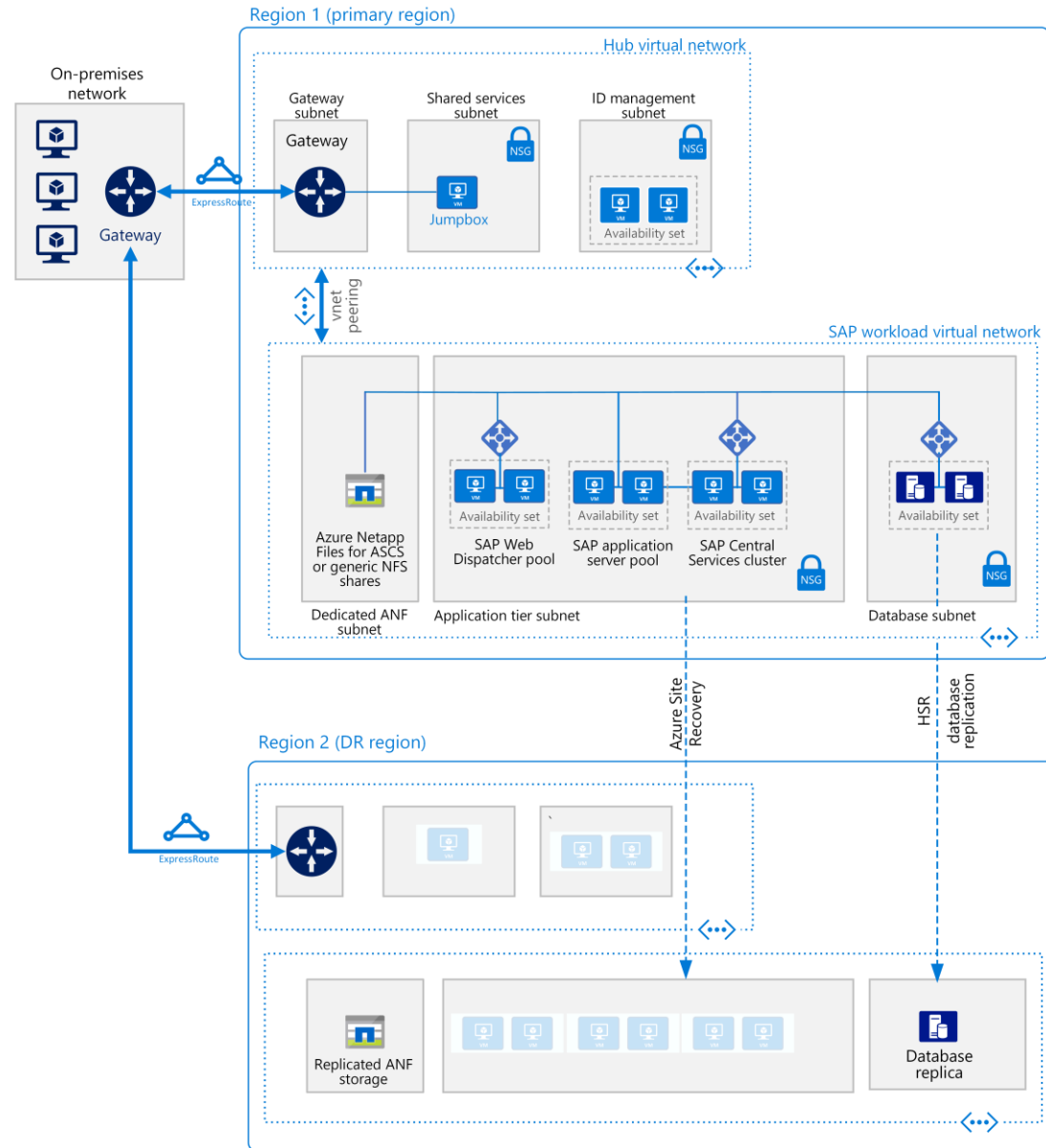
- **High Availability for 24/7 Systems**
- Automated failover for HANA, NetWeaver & S/4HANA
- HANA System Replication based HA solutions
 - HANA System Replication Scale-Up in Pacemaker, various scenarios
 - HANA System Replication Scale-Out in Pacemaker, various scenarios
- NetWeaver & S/4HANA HA solutions
 - ENSA1 certified ASCS/ERS HA
 - ENSA2 certified ASCS/ERS HA
- **Proactive Monitoring**
- SUSE SAP Monitoring Solutions
- Insights to the entire SAP landscape

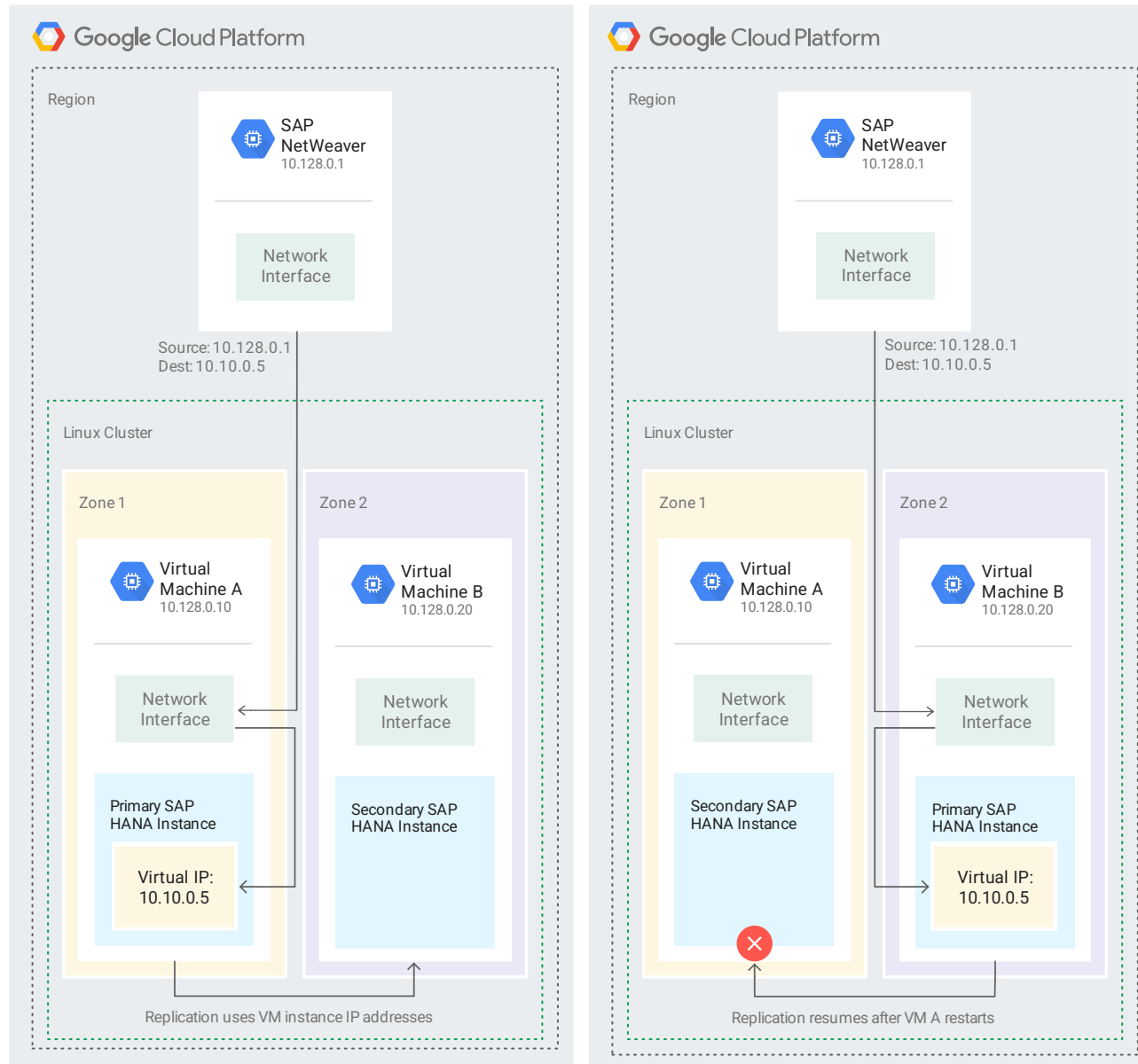


AWS



Azure





Lessons Learned

- High Availability configuration is the most challenging part of SAP deployment
- Follow SUSE's Best Practices
- Automate the Cluster Installation and Configuration
- Engage SUSE as early as possible, better from Design Phase
- Engage SUSE Services when needed



Solutions to Reduce Planned Downtime

- **High Availability for 24/7 systems**
 - SAP HANA rolling update in a cluster
- **Reduce Downtime After HANA Reboot (supported on selected Cloud)**
 - SAP HANA on Persistent Memory
 - Intel Optane® DC NVDIMMs / IBM pMEM
- **Keep SAP Systems Secure**
 - Live Linux kernel patching
- **Maintain a Cluster & Avoid Split-brain**
 - SAP Application Server HA-Interface Certified



SUSE Helps Accelerate SAP S/4HANA and Cloud Migration



AGILITY & RELIABILITY & SECURITY

- Timely HANA certification; No gap
- Robust cloud images and update infrastructure
- Developer of solutions for planned and unplanned downtime
- Federal security standard certified



DEPLOY SAP SERVICES FASTER

- Automated SAP landscape deployment in on-prem, hybrid, and public cloud environment
- Built-in best practices to speed up provisioning and avoid errors



STRENGTHEN OPERATIONS

- Proactive validation & monitoring to avoid outage
- Real time insights and perf optimization
- Best practice driven patching and upgrade
- Integrated support with SAP; Fast response with purpose-built tools; Developer expertise to quick resolution



COST OPTIMIZATION OPTIONS

- Flexible Cloud Pricing
- BYOS
- PAYG
- Long Term Commitment Discount
- Azure Hybrid Benefits





Thank you

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