

SAP ASUG

Accelerate your SAP S/4HANA transformation on AWS

Eugene Kim

US-NE SAP on AWS Sales Leader
Amazon Web Services

Rozal Singh (he/him)

Senior SAP Solutions Architect
Amazon Web Services



ERP modernization is key pillar of enterprise modernization

79%

of SAP customers plan to migrate to S/4HANA, have started to move, or are live¹

Top drivers of S/4HANA adoption²



Digital transformation



Process improvement/standardization



Legacy ERP consolidation/retirement



Improved functionality/performance

1. ASUG Cloud Survey, ASUG, 2022

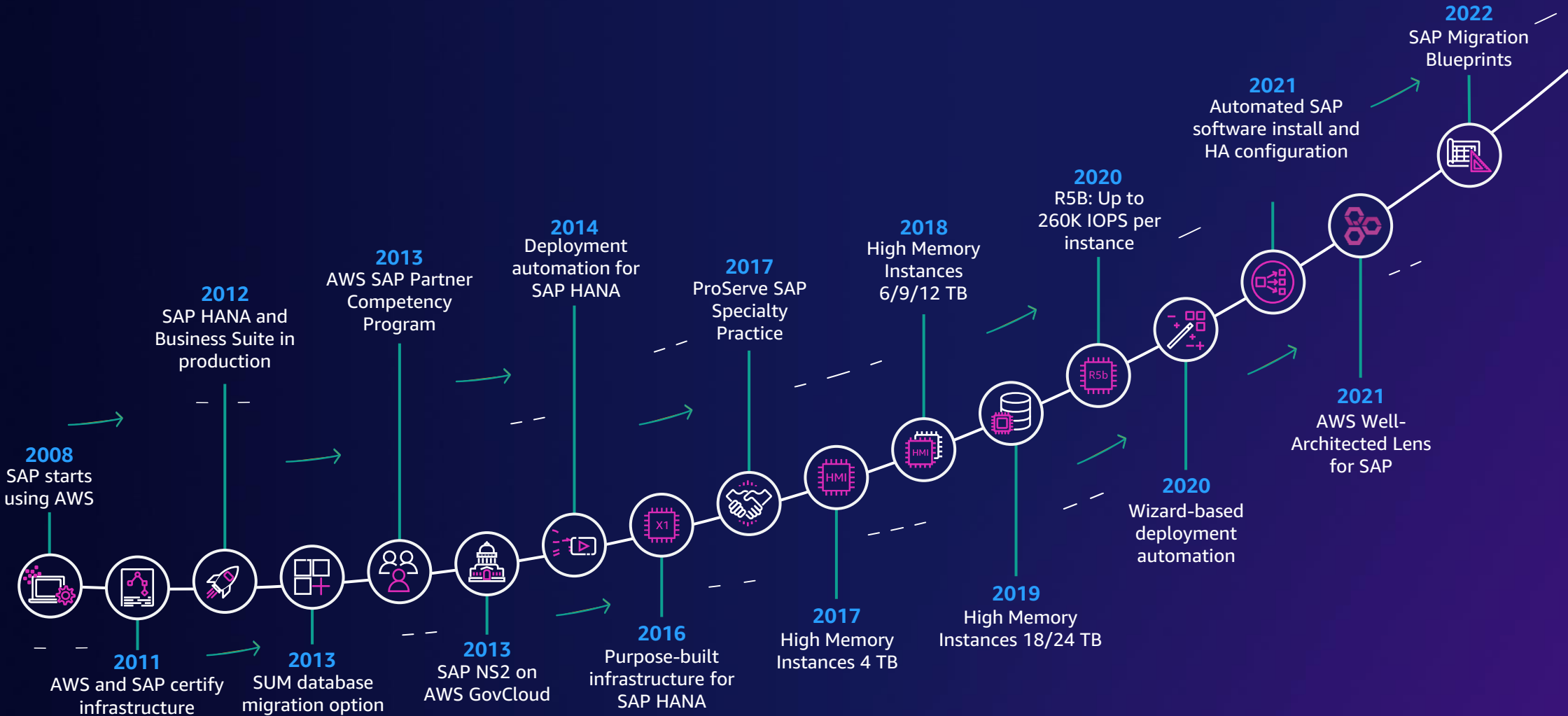
2. 2021 Pulse of the SAP Customer, ASUG, 2021

Why SAP customers choose AWS



13 years of customer-obsessed innovation

AN UNPARALLELED TRACK RECORD OF INDUSTRY FIRSTS FOR SAP IN THE CLOUD



What customers say about running SAP on AWS



"What we really benefited from was AWS expertise not just in the cloud, but in SAP..."

Alla Krapivsky

Group Manager for Retail IT

"We've not found anybody who innovates at the same pace."

Shane Thatcher

CIO

REVLON

"RISE with SAP provides Revlon with numerous opportunities to support our continued digital acceleration through modernizing our core back-office infrastructure and applications while reducing our total cost of ownership. Additionally, RISE with SAP will enable increased flexibility and agility in support of our Revlon Global Growth Accelerator program."

Jose Urquijo

Chief Information Officer

Kellogg's

"Some of our SAP logistics and finance reports are executing up to 60% faster on AWS. That means our SAP users are more productive and they can report results to the business faster."

Ramesh Kollepara

IT Director



"We selected AWS because of its maturity in the market, breadth of services, and commitment to cybersecurity... AWS has a lot of experience running SAP HANA platforms in the cloud, and that was huge for us."

Jeff Wright

Cloud Service Senior Manager

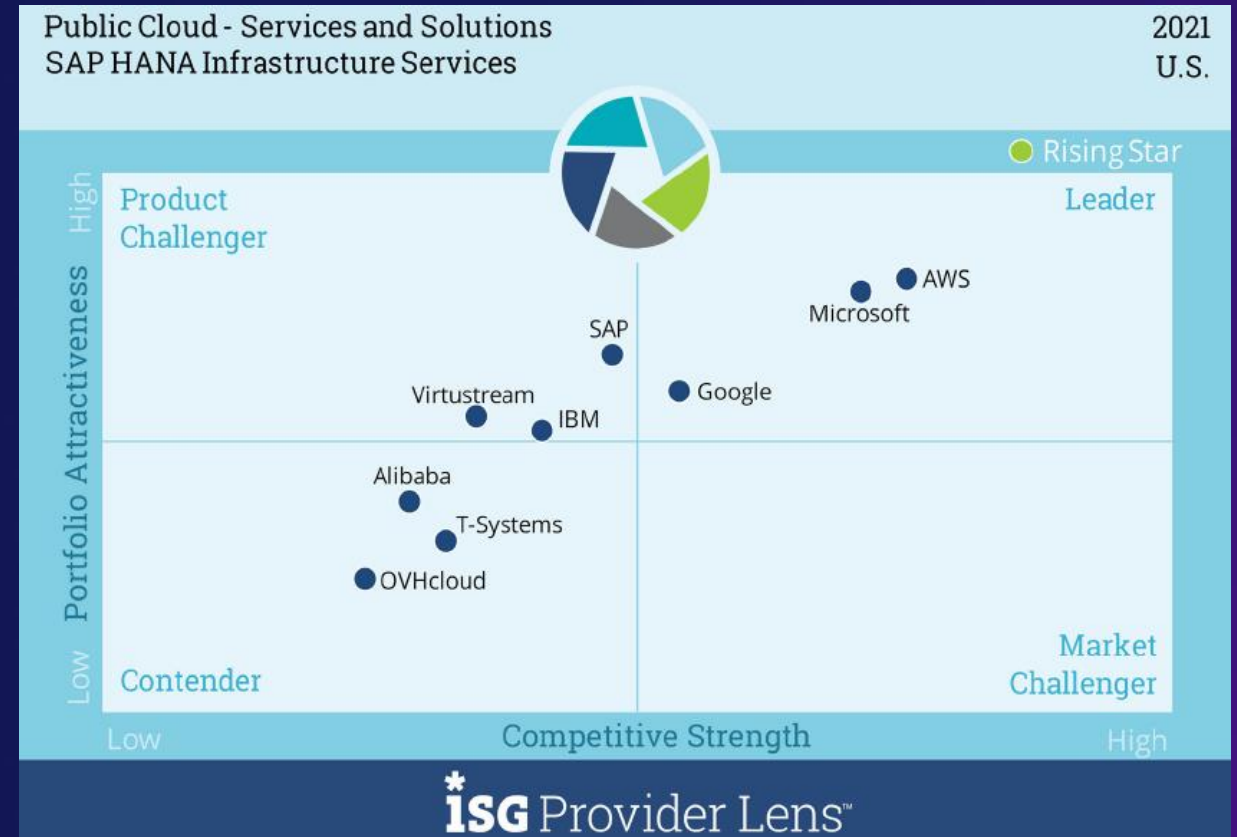


AWS leads HANA Infrastructure Services

ISG RECOGNIZES AWS AS THE LEADER FOR THE FOURTH CONSECUTIVE YEAR

“AWS offers high flexibility and helps customers get the most value out of SAP investments, whether it is lift and shift, modernize or move to S/4HANA. It also offers a secure, reliable, and extensive public cloud infrastructure, with more than 200 services to innovate, along with a purpose-built SAP automation tooling.”

“AWS continues to lead the infrastructure services offering market with its wide range of services to host for SAP HANA workloads on its platform.”



Accelerating your S/4HANA transformation








Running S/4HANA on AWS: Your options

	RISE with SAP	SAP on AWS native
Management	SAP manages infrastructure and software	Customer/partner manages infrastructure and software
Extensibility	Extend with SAP Business Technology Platform (more BTP services on AWS than all other providers combined)	Extend by natively integrating with AWS services
Pricing	Includes Infrastructure, Software Subscription, Software Support, and Technical Managed Services*	Includes infrastructure; bring-your-own license and support for SAP app, database, and OS and work with AWS Partners
Optimization	SAP landscape set in the RISE contract with options to ramp the usage tiers during the term	Maximum flexibility to optimize your architecture and operations and take advantage of commercial programs and price reductions

*Additional Cost for Disaster Recovery, Digital Access (Data Blocks), Customer Evaluation System, 99.9% SLA, Additional Storage and Usage tier



Unmatched experience delivering customer success across ERP modernization approaches

Rehosting ECC	Suite on HANA	S/4HANA migration (native and RISE)	Innovate, modernize, and transform with AWS services
 <p>83% capex reduction, 18% opex reduction, 28% performance increase</p>	 <p>Uses Suite on HANA with AWS IoT for smart manufacturing</p>	<p>Bristol Myers Squibb</p> <p>Reduced costs by 20% and automated GxP compliance with greenfield S/4HANA deployment</p>	 <p>Estimated \$300M in operational value by combining ECC with AWS analytics, AI, and ML services</p>
<p>Kellogg's</p> <p>Improved process performance by 60% while reducing costs</p>	 <p>Moved to HANA, reduced costs by \$530K while navigating GoldCorp acquisition</p>	<p>REVLON</p> <p>Supporting their digital commerce transformation and strategic cloud migration with RISE on AWS</p>	 <p>Integrating S/4HANA with VW Digital Production Platform to improve manufacturing productivity by 30%</p>



Top challenges IT teams face with SAP projects



52%

Lack of resources



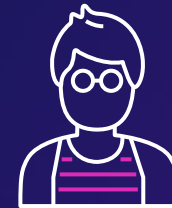
45%

High costs



35%

Lack of consistency in
configuring, onboarding,
and management



32%

Human error

Source: "How automation accelerates innovation for SAP operations teams," ASUG/Avantra, 2020



Working backwards from SAP customer needs

52%

Lack of resources



- Eliminate cross-team dependencies
- Get more out of valuable personnel
- Attract and develop top talent

45%

High costs



- Rightsize your infrastructure
- Reduce labor costs with industry-leading automation
- Lower cost per SAPS/GB

35%

Inconsistent configuration, onboarding, and management



- Automate configuration and deployment
- Reuse SAP deployment patterns for infrastructure as code
- Manage SAP with cloud-native tools

32%

Human error



- Automatically align to AWS and SAP best practices
- Leverage the collective experience of 13+ years and 5,000+ customers
- Minimize the need for human intervention

AWS automation supports Storengy's green energy transition with S/4HANA

- Reduces S/4HANA deployment from months to hours with AWS Launch Wizard
- Reduces HANA backup times from 1 hour to 5 minutes with AWS Backup Agent
- Reduces operating costs by 40%
- Stronger security posture using AWS Well-Architected Review

storengy

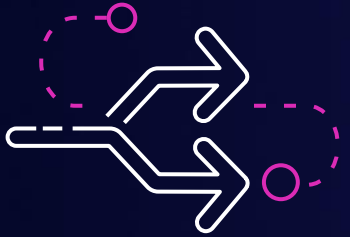
A company of **ENGIE**

“AWS Launch Wizard was a major accelerator for our SAP S/4HANA implementation and our overall transformation. Now, when the business wants to test a new functionality or feature, we can provide it immediately because of the on-demand infrastructure and deployment automation AWS offers.”

Guillaume Yvon

Enterprise Architect, Storengy





Migration

SAP Lens for AWS Well-Architected Framework

CUSTOMER-PROVEN DESIGN PRINCIPLES AND BEST PRACTICES FOR ENSURING SAP WORKLOADS ON AWS ARE WELL-ARCHITECTED ACROSS:



Operational Excellence



Security



Reliability



Performance Efficiency



Cost Optimization



Sustainability

AWS Migration Hub: Simplifying migration



Migration Hub is the central tool across all phases of migration



Assess

- Import existing server inventory
- Obtain rightsized Amazon EC2 recommendations
- Capture and visualize system inventory, performance, and dependencies

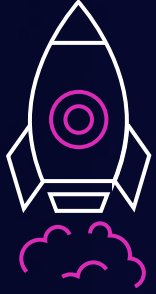
Mobilize

- Analyze server performance and identify server dependencies
- Group applications and build a migration plan

Migrate and modernize

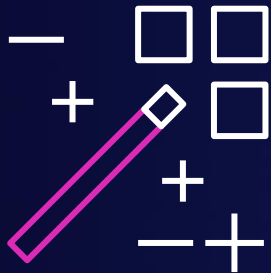
- Track application migrations from multiple tools





Deployment and configuration

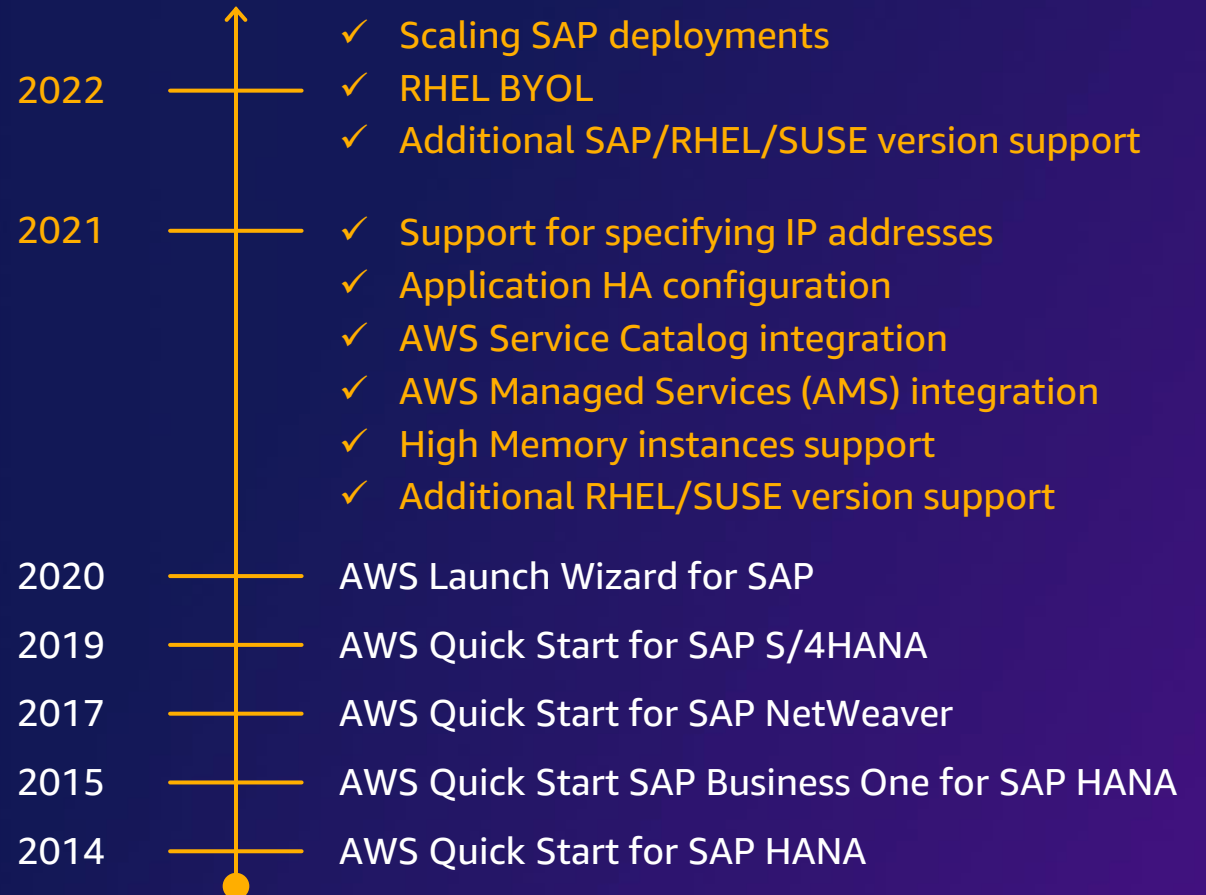
Automating SAP deployment with AWS Launch Wizard



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 as code

History of SAP deployment innovation



Deploy SAP on AWS in hours vs. months

AWS LAUNCH WIZARD GIVES YOU A HIGHLY AVAILABLE, BEST PRACTICE-ALIGNED SAP SYSTEM READY FOR USE

SAP software install

 SAP S/4 HANA

BW/4HANA SAP NetWeaver



Operating system deployment and storage allocation



HA cluster set up



Red Hat



SUSE

Server and storage configuration



Amazon CloudWatch



Amazon EBS



Amazon EFS



Amazon S3

Infrastructure and network setup



Amazon VPC & SGs



Amazon EC2



AWS KMS



Amazon Route 53

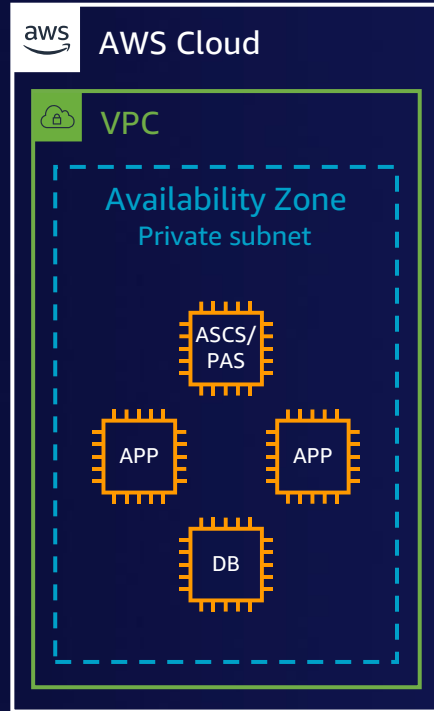
SAP application install feature

RUNTIMES



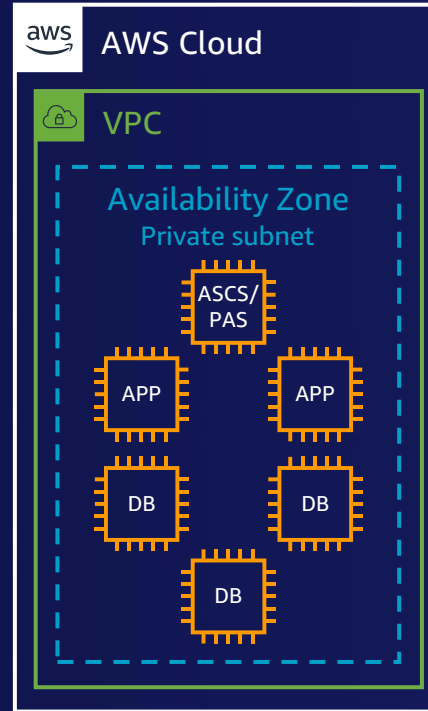
Single-instance deployment

- Development, sandbox



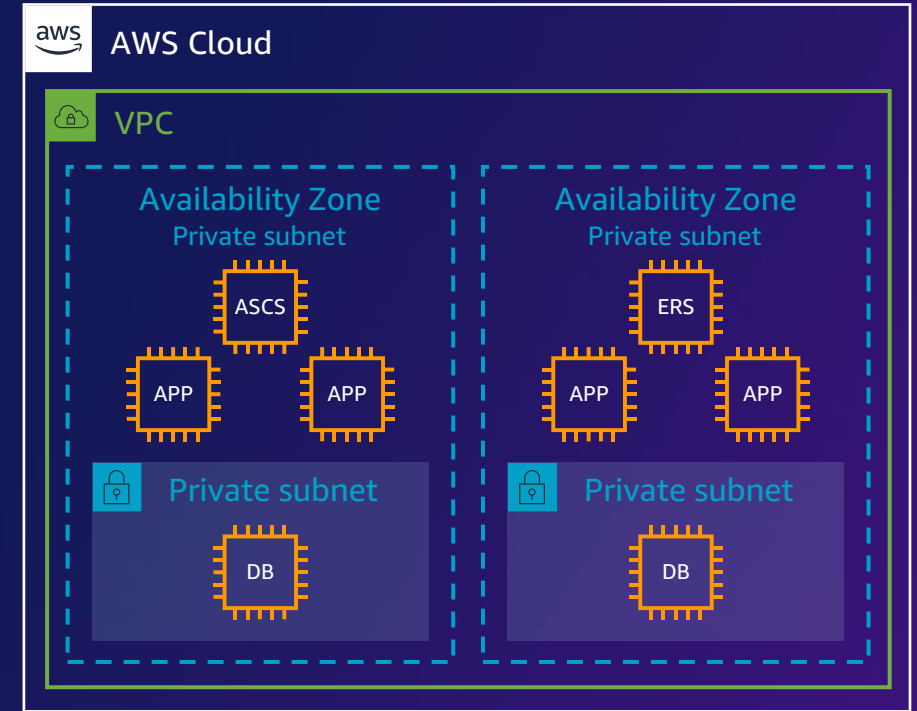
Distributed instance with HANA Scale-up deployment

- Development, sandbox, test, pre-prod, prod



Distributed instance with HANA Scale-out deployment

- Development, sandbox, test, pre-prod, prod



High-availability deployment

- Pre-prod; prod

Let's deploy an S/4HANA system on AWS!

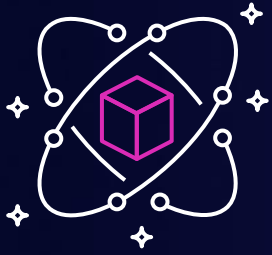


DevOps for SAP with AWS Professional Services

Architect, migrate, and operate SAP workloads using DevOps tools and methodologies

DevOps for SAP on AWS at CHS

- Reduced SAP provisioning time by >90%
- Patches 150+ SAP instances across 6 accounts in <1 hour
- Automatically shuts down non-production systems after business hours to reduce costs

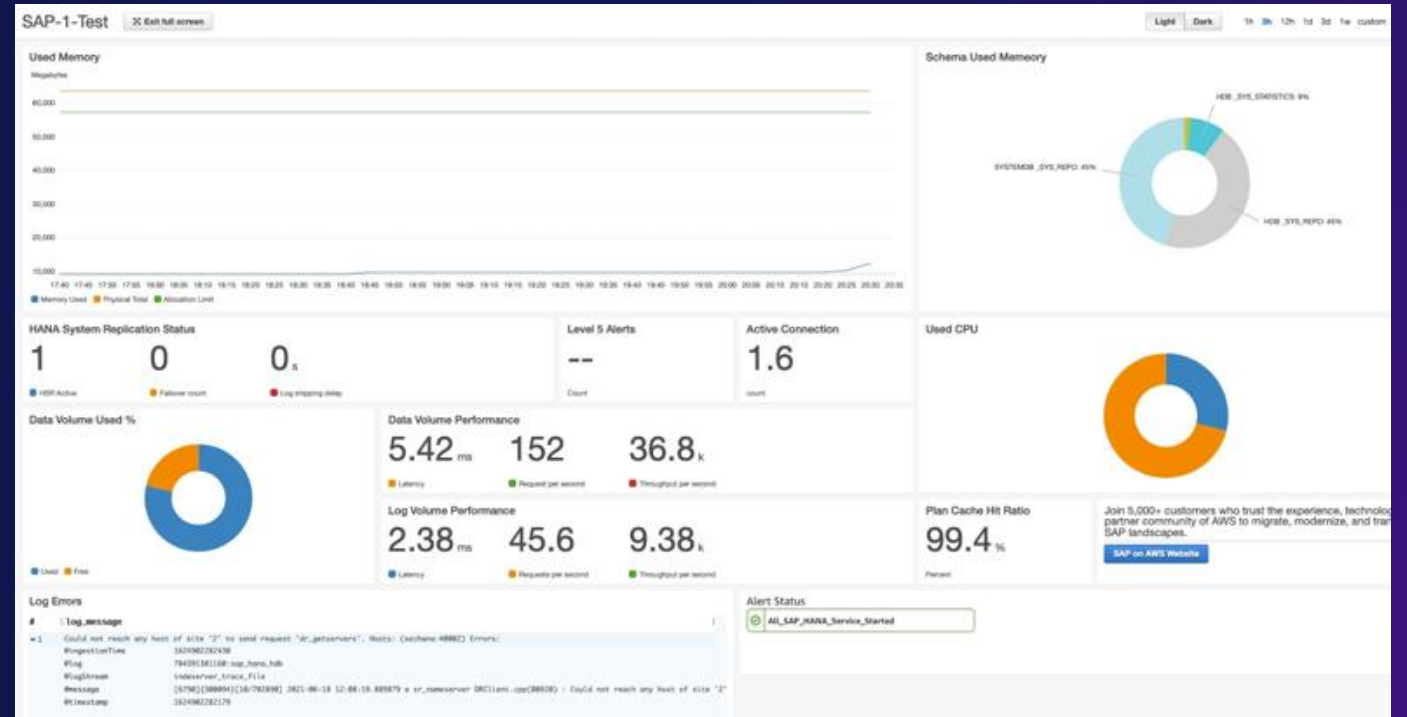


Management and monitoring

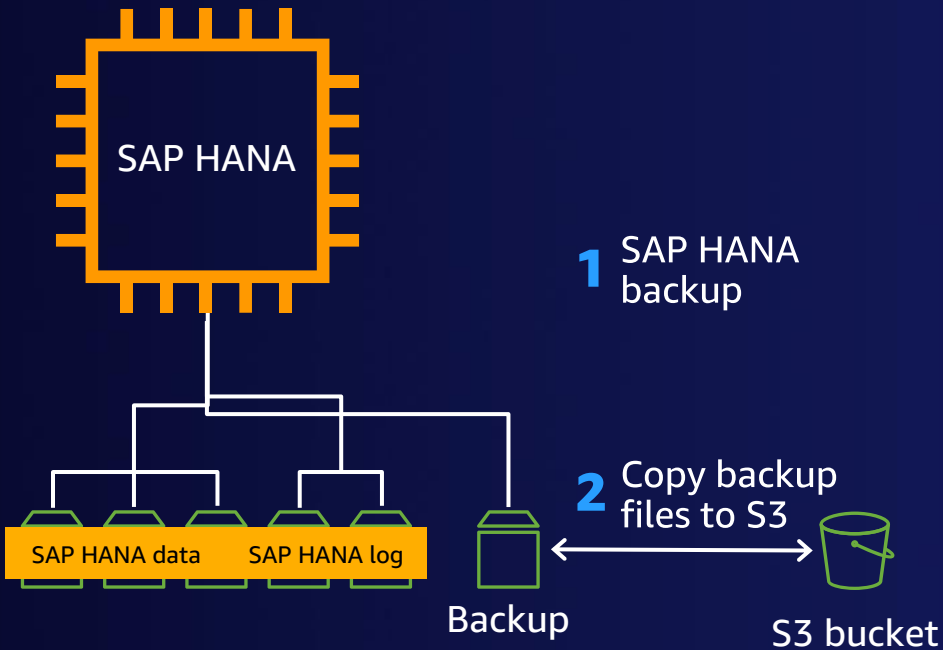
Amazon CloudWatch Application Insights for SAP HANA

EASILY IDENTIFY AND RESOLVE PROBLEMS IMPACTING YOUR HANA-BASED WORKLOADS

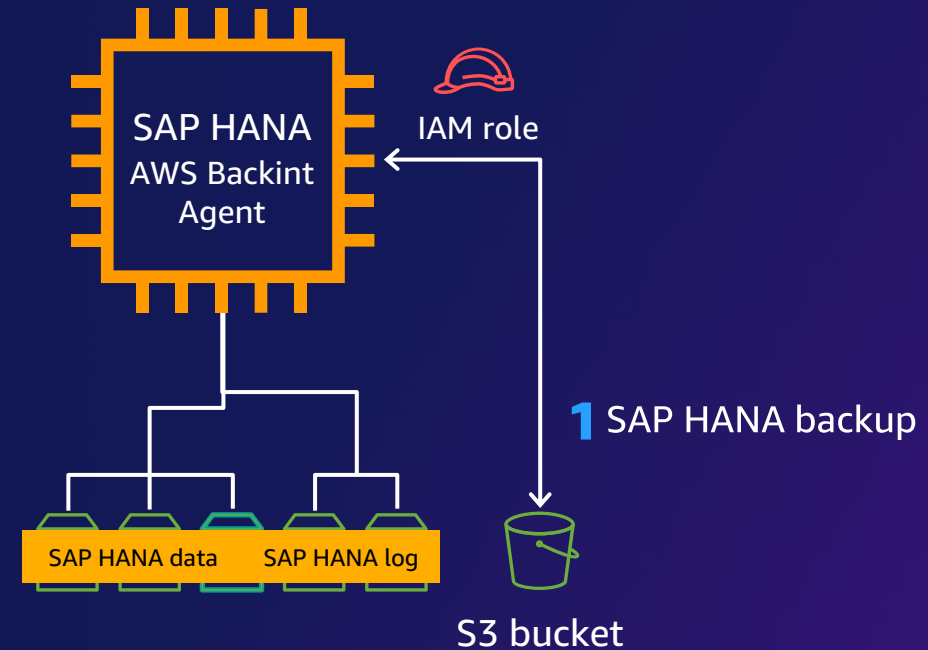
- Automatically set up monitors and dashboards for application resources
- Detect and troubleshoot problems quickly with automatic notification
- Determine root causes quickly with AI-driven insights
- Supports single, multi-node and high-availability landscapes



Automate HANA backup with AWS Backint Agent



File-based backup



Backup with AWS Backint

- Back up SAP HANA directly to Amazon S3
- Designed for 99.999999999% durability
- 2 GB/s per node throughput, scaling linearly



Innovation and transformation

Clean core + AWS = Innovation

ACTIVATING THE DATA-DRIVEN ENTERPRISE

↑
REVENUE
GROWTH



Empowered sales teams



Intelligent decision-making



Better relationship with customers



Increased efficiency

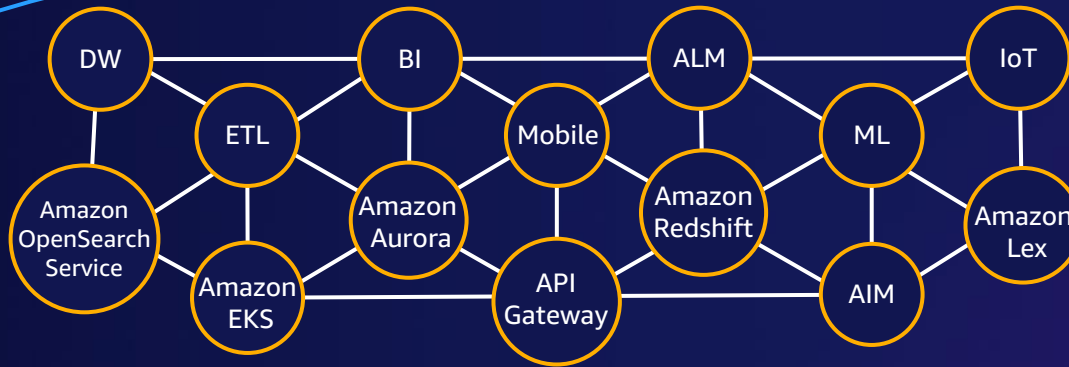


Products that get better with time

OPERATIONAL OVERHEAD



Data-driven discipline



DIFFERENTIATION LAYER

Build to change

APPLICATION LAYER

Build to consume

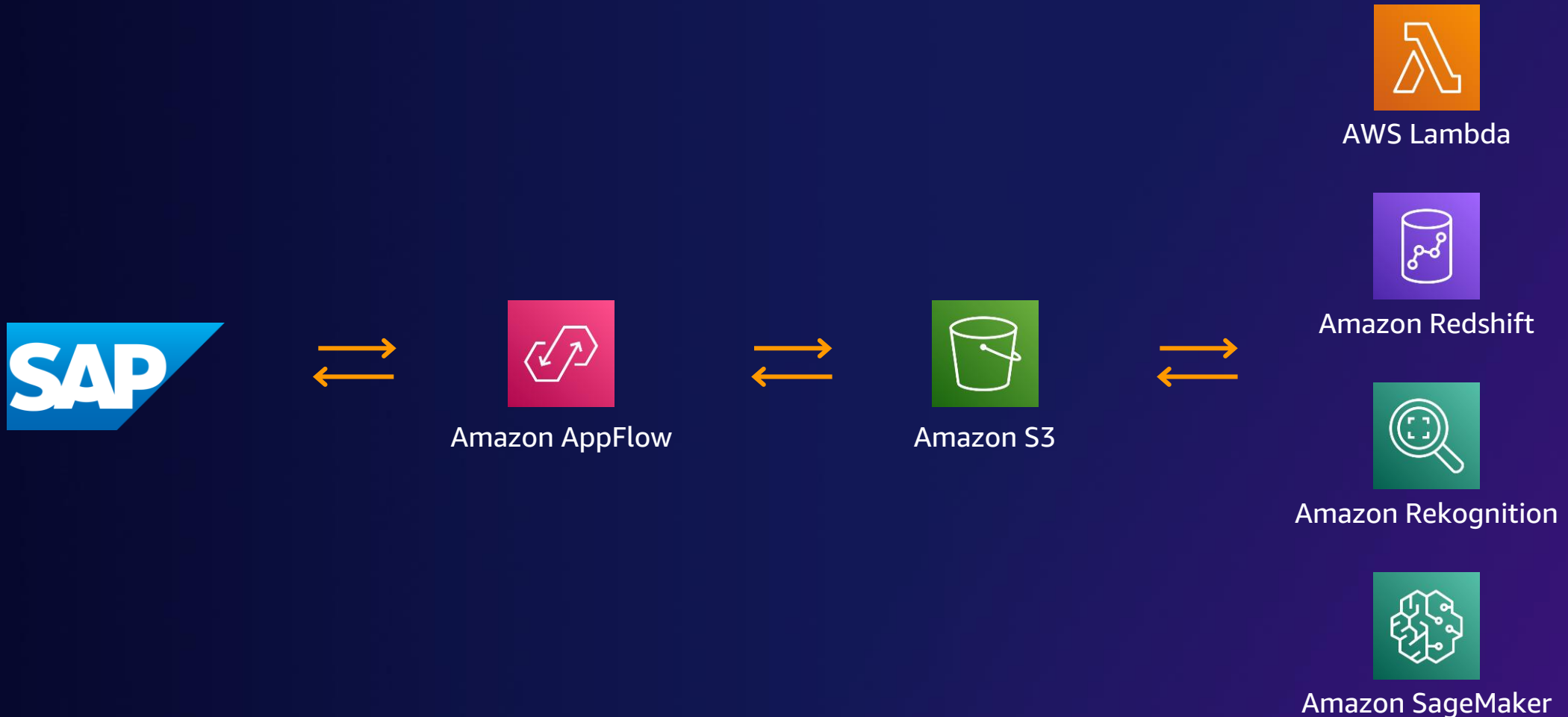
INFRASTRUCTURE LAYER

Build to last

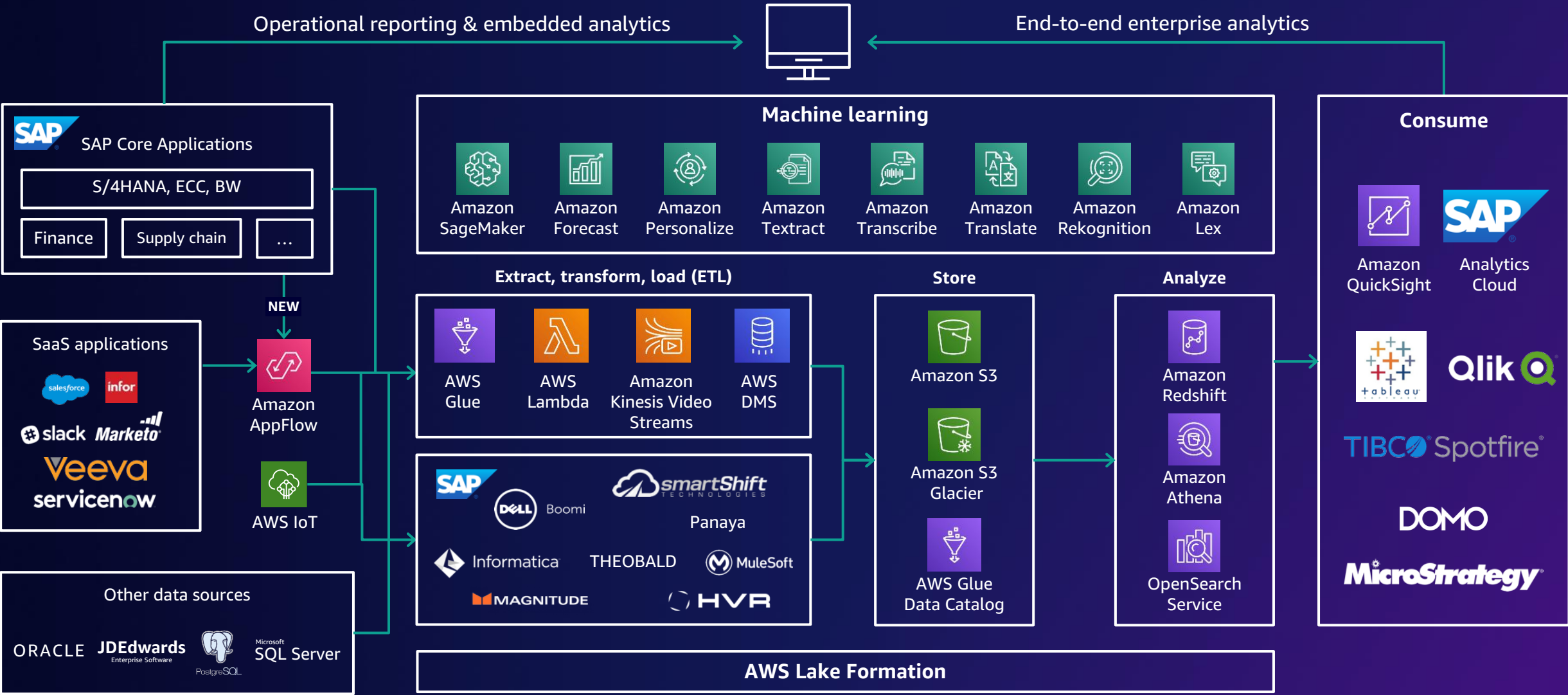


Analyze and transform SAP data with AWS services

USE THE AMAZON APPFLOW SAP ODATA CONNECTOR TO RUN DATA FLOWS FROM SAP ERP/BW FOR USE WITH AWS SERVICES IN JUST A FEW CLICKS



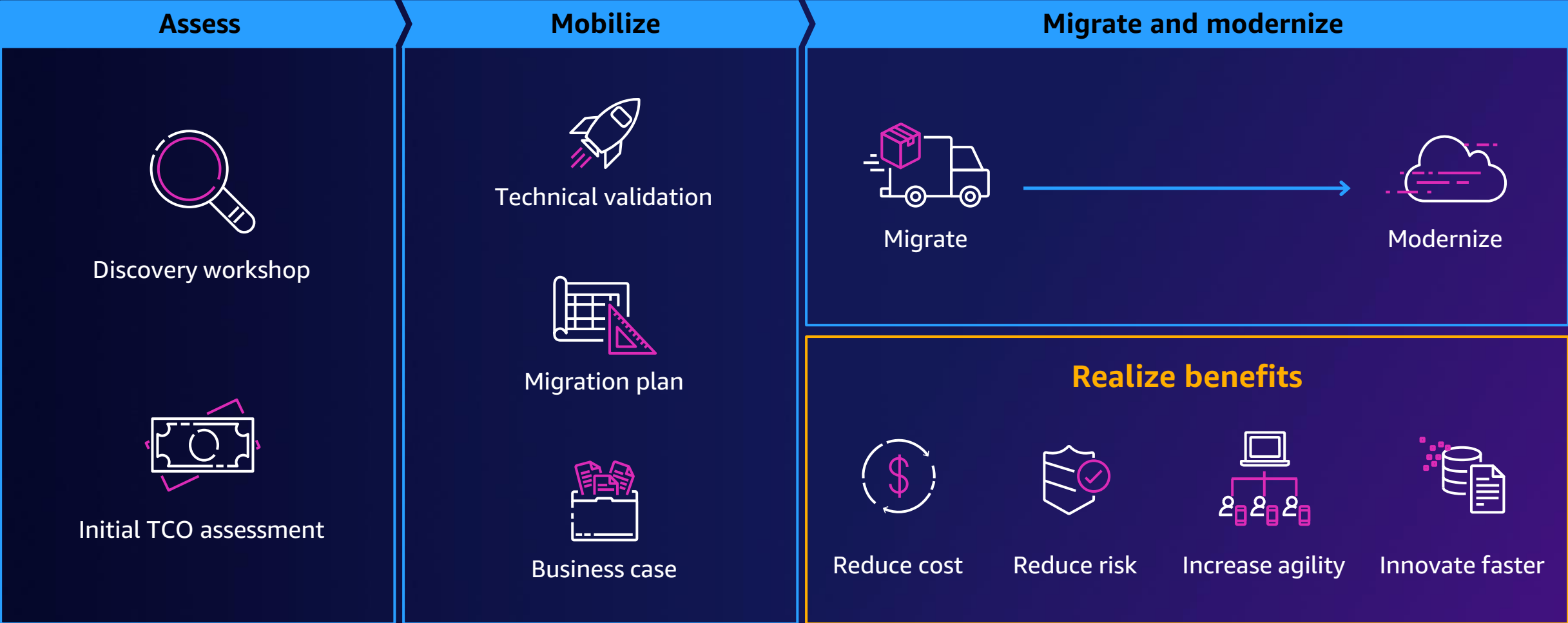
Modern enterprise analytics with SAP data



Getting started



Proven model for SAP migration and modernization



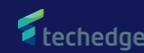
SAP on AWS Partner community

AWS SAP COMPETENCY PARTNERS

Streamline migration and innovation with AWS Partners that have proven SAP on AWS customer success

91%

of SAP on AWS customers use a partner



AWS Professional Services Global SAP Practice

BRIDGE THE SAP ↔ CLOUD SKILLS GAP AND REALIZE YOUR DESIRED BUSINESS OUTCOMES WITH THE WORLD'S FOREMOST SAP ON CLOUD EXPERTS

Complementary offerings

- SAP on AWS Discovery
- SAP HA on AWS Discovery
- DevOps for SAP
- Analytics for SAP
- SAP Extend Discovery

moderna



Newmont



Bristol Myers Squibb

S/4HANA on AWS customer outcomes



Implemented HA and infrastructure as code for S/4HANA to help **scale operations and deliver 1.4B COVID-19 vaccine doses globally**



Uses AWS services in concert with S/4HANA to do **real-time financial closing**



Uses AWS analytics, AI/ML, and customer engagement services with S/4HANA to **improve customer experiences, reduce cost of insight by 30%, and ship 250M orders/year**



Digitally transforming to **accelerate their zero-carbon transition** with SAP S/4HANA and an Amazon S3-based data lake on AWS

Next steps to start your journey

Work with us



Complementary
discovery workshops



Work with an AWS SAP
Competency Partner



Work with AWS
Professional Services SAP/
ERP Specialty Practice



Explore the AWS Migration
Acceleration Program (MAP)

Explore SAP on AWS

aws.amazon.com/sap

Case studies: go.aws/3vG4Nf5

Learn in-demand AWS Cloud skills



AWS Skill Builder

Access **500+ free** digital courses and Learning Plans

Explore resources with a variety of skill levels and **16+** languages to meet your learning needs

Deepen your skills with digital learning on demand



Train now



AWS Certifications

Earn an industry-recognized credential

Receive Foundational, Associate, Professional, and Specialty certifications

Join the **AWS Certified community** and get exclusive benefits



Access **new** exam guides

Thank you!





Please complete
the session survey