

# Navigate your SAP digital transformation journey with Tech Mahindra on Amazon Web Services

## Abstract

Organizations across multiple industries are in the process of determining the ideal time to move business-critical workloads to the cloud. Many have been slow to begin the transformation due to issues such as application readiness, lack of expertise, and complex interdependencies.

Digital transformation intentions are increasing according to a recent America's SAP User Group (ASUG) survey<sup>1</sup>. The survey indicates that 56% of IT organizations are planning to move to SAP S/4HANA on the cloud, and 81% of respondents expect emerging, cloud-based technologies will have a significant impact on their business in the next two years. As an added incentive, organizations are on notice from SAP to complete their transition to SAP S/4HANA by 2027.

## Addressing the needs for enterprise transformation to SAP S/4HANA on AWS

As organizations plan their digital transformation path, they need to make a strategic decision about whether they will move some or all their existing infrastructure IT systems to the cloud. Efforts to reduce dependencies across on-premises systems and data centers are leading many to tap Amazon Web Services (AWS) to gain enhanced, cost-effective scalability and performance, and by adopting innovations to fuel sustained business growth.

AWS offers multiple tools to accelerate digital transformation and move SAP workloads to the cloud quickly and efficiently, including SAP-certified solutions. Available best practices and migration tools include an SAP HANA AWS Quick Start and an AWS Launch Wizard for SAP. Using these and other AWS resources enable the seamless integration of data across your enterprise, making it easily accessible to end users.

<sup>1</sup>ASUG Pulse of the SAP Customer 2020 Study Results: SAP Market Research <https://www.asug.com/insights/asug-pulse-of-the-sap-customer-2020-study-results>

## Confronting challenges and planning your SAP S/4HANA journey to the cloud

Regardless of where current SAP landscapes reside, you need to evaluate current systems to create a detailed transformation roadmap. See below for the five significant challenges you need to address when planning your transformation.

1. Determine the right transformation path for legacy ERP environments to SAP S/4HANA. IT teams must assess existing application readiness in terms of age, complexity, and prioritization.
2. SAP transformation projects can take several months and your organization may lack the skillset, knowledge, and resources to commit to a large-scale migration. Choosing to work with experienced service providers can help accelerate the process.
3. As CXOs plan the transition from their current business processes to the cloud, they need to take into consideration the potential impact on data quality as well as the extent of custom development.
4. The performance, security, and reliability requirements of your SAP workloads, and how much downtime you are willing to accept during cutover, also need to be considered.
5. Costly migrations require detailed plans and roadmaps to obtain executive-level project approval.

## Managing your SAP S/4HANA transformation

Tech Mahindra, an AWS Premier Consulting Partner, offers consulting, implementation, application, and support services that enable efficient SAP S/4HANA transformation, with integrated strategies, solutions, and best practices to validate the strategic cloud journey approach and migration path. Tech Mahindra benefits your organization by providing:



**Accelerated SAP migrations** through transformational assessments and tailored recommendations.



**Best practices and expertise** to standardize and streamline migrations.



**Reduced TCO** through migration of data to virtual machines on AWS, eliminating internal Capex and Opex overhead.

## Accelerating your SAP S/4HANA transformation on AWS

The Tech Mahindra Comprehensive Transformation assessment service performs a complete analysis of your current SAP landscape to help understand the operational requirements, risks, and benefits of migrating to S/4HANA on the cloud. The assessment drives decisions that lead to the creation of an implementation plan and schedule. Using the data and strategies from the assessment, Tech Mahindra manages the technical process and executes the transformation on AWS.

The process helps clearly define a phased transformation plan and timeline leveraging best practices and expertise, with a primary focus on critical workloads and the impacts on the organization. From discovery through analysis and culminating in an implementation roadmap, this process has been successfully repeated worldwide.

AWS tools and services are used to analyze your end-to-end business process, custom code, and to provide impact analysis reports. The resulting reports are used to engage with your organization to make recommendations for your SAP S/4HANA roadmap. Using these tools and services to initiate the transformation provides the knowledge to optimize and reduce the project timeline.



## Automating your SAP transformation

From initial assessments and strategy planning to SAP migration accelerators, the following tools can help you speed your transformation.

### Tech Mahindra SAP Cloud Readiness Check Service

The Cloud Readiness Check Service performs an in-depth discovery and analysis of the current SAP landscape and applications, to determine migration readiness and create a detailed SAP migration roadmap. This service helps eliminate potential surprises regarding product compatibility or migration strategy challenges that may surface once your organization embarks on your cloud transformation journey.

### Discover

#### Approach

- Remote discovery of SAP application environment, including virtual workshops, questionnaires, and data collection templates
- Cloud readiness assessment and analysis
- Define potential migration and transformation approach

### Analyze

#### Deliverables

- SAP workload inventory
- SAP application cloud readiness
- Migration to AWS supported by high-level adoption details
- Target SAP architecture and virtual mapping
- Potential cloud migration and transformation approach

### Roadmap

## Additional cloud migration accelerators

Tech Mahindra cloud transformation accelerators are designed to assist throughout every step of the SAP transformation journey, from automated discovery to AI-led operations, providing significant TCO savings.

**Passport NxT** is an application modernization framework that performs a cloud compatibility assessment of applications. With its findings, Passport NxT provides a high-level cloud migration strategy, migration roadmap, gap analysis report, and capacity planning recommendations.

**MAC toolkit** is a framework for application migration from on-premises to public, private, or hybrid cloud environments. This framework is supported by factory model implementation for repeatable and predictable performance.

**mPAC** is a cloud management platform, enabling users to consume IT services with seamless portability across their on-premises and cloud environments. The result is uninterrupted service provisioning and improved cost-effectiveness.

**iCOPS** is an integrated cloud operations delivery model with tools, processes, best practices, and skilled associates. This model ensures focus on every cloud resource, delivering maximum value and efficiency.

**Tech Mahindra Actionable Intelligence Extended** is an application framework based on AI/Machine Learning (AI/ML) technologies. It accelerates development of intelligent solutions by simplifying and automating routine IT operation tasks, identifying and preventing potential problems.

**Tech Mahindra SAP Launch Template Kit** is a collection of prebuilt scripts and templates that can be used to accelerate the build of AWS virtual machines and launch SAP instances.

**Tech Mahindra Operations Kit** includes templates and scripts for managing SAP workloads on AWS including autoscaling, auto snooze (on/off), and system refresh.

**Passport NxT**

**MAC**

**mPAC 3.0**  
Managed Platform for Adaptive Cloud

**iCOPS**

**TACTIX**



**Tech  
Mahindra  
epselon**

Delivers the analytics, data, and features to plan your SAP transformation journey while recognizing impacts to current applications:

- **Cloud-based bridge digital enabler** includes analytic capabilities to support SAP S/4HANA digital transformation
- **Custom development impact analysis** evaluates transformation risks, including resource, effort, and timeline estimates
- **Customer vendor integration (CVI) analysis** is an SAP method for converting business partner data into customer and vendor master data and vice versa
- **SAP modifications** customize an SAP standard object to meet your specific need
- **Interface analysis** prevents business disruptions by identifying undocumented and outdated SAP interfaces, mitigating security and operational risks
- **Custom code scoping** and application de-commissioning can reduce remediation efforts by 25-30
- **Business process impact analysis (BIA)** helps deliver operational resilience, identifies resource needs, and provides continuity of operations for SAP transformations
- **SAP Fiori** implementation is a replacement SAP user interface that streamlines application use tiles to encapsulate standard tasks for enhanced user experience

## Case Study

### Objective

A public sector engineering agency in India wanted a unified solution that would enable them to scale their ERP processes for real-time insights and sourcing capabilities.

### Solution

Using the AWS Well-Architected Framework, Tech Mahindra proposed, designed, and delivered an intelligent SAP S/4HANA solution on AWS.

### Benefits

- Transitioned to a cloud-first strategy
- Reduced project execution time with faster decision making
- Gained a centralized portal with a reporting dashboard benefitting internal and external stakeholders
- Improved morale and collaboration due to an enhanced user experience
- Enhanced efficiency and lower TCO

## Tech Mahindra and AWS strategic collaboration

Tech Mahindra is an AWS Premier Consulting Partner, AWS Managed Service Provider (MSP) with a Migration Consulting competency, and an AWS Database Service Delivery Partner. With over 5,500 Cloud professionals across 90 countries, Tech Mahindra helps customers (1,000+ global customers, including Fortune 500) become agile, lean, and build reliable platforms and applications on AWS.

Tech Mahindra recently signed a strategic collaboration with AWS to develop an end-to-end innovative, secure, and automated cloud platform “netOps.ai” that powers telco networks on AWS and allows operators to accelerate digital transformation and enable rapid deployment of 5G Networks.

### Why choose Tech Mahindra for AWS?

- Tech Mahindra is an AWS Global Systems Integrator Partner with more than 1,000 AWS certifications supporting over 70 clients globally, including 33 G2K companies.
- Tech Mahindra and AWS joint focus areas include migration, cloud optimization, cloud-native application development, SAP, data and analytics, IoT, network operations, 5G, and blockchain. Tech Mahindra has 10 solutions engineered on AWS, spanning data analytics, blockchain, and vertical-specific solutions for the telecom, manufacturing, and healthcare industries.
- Tech Mahindra has been rated a Leader by ISG in the ISG Provider Lens 2020: AWS Ecosystem Partners survey, and Tech Mahindra was recognized for the Most Customer Obsessed Migration at the AWS Public Sector Partner Awards 2020.



### Premier Consulting Partner

Migration Competency

AWS Database  
Migration Service

Level 1 MSSP  
Competency

AWS Well-Architected  
Partner Program

AWS Config

## Getting started on your SAP S/4HANA transformation journey

Learn more about how services, solutions, and methodologies from Tech Mahindra can enable your organization to streamline your SAP transformation on AWS. Visit [Tech Mahindra SAP S/4HANA](#) to get started.