

# Motherson Technology Services Helps **MTTL** Optimize Operations and Transform Business with SAP Workload Migration to AWS



## Client Overview

Motherson Techno Tools Ltd (MTTL), a part of Motherson Group, is a joint venture between SAMIL and Sumitomo Electric Hard Metal Corp, Japan. The company was incorporated in 1992 and is one of the world's largest automotive component suppliers for OEMs. They specialize in manufacturing machine tool accessories, including the best in class integrated tooling and cutting solutions for all kinds of metal machining requirements. Their main products are ISO & customized indexable Inserts for Turning, Milling and Grooving, Valve Seat Ring Bites, Boring Bars, and PCD rotary tools.

## Business Challenges

MTTL's SAP application was running on their on-premise setup, due to which they were unable to perform integrated business planning and faced several challenges as listed below:

- 1 Frequent downtime due to insufficient storage along with an absence of a monitoring & alerting system to take proactive action
- 2 Time-consuming and high-cost procurement process for additional storage hardware
- 3 Lack of support due to an outdated DB/OS version
- 4 Increased business risk due to lack of proper backup and recovery policy
- 5 Lack of alignment between system and business requirements to keep costs under control
- 6 Challenges in production deployment impacting the business operation

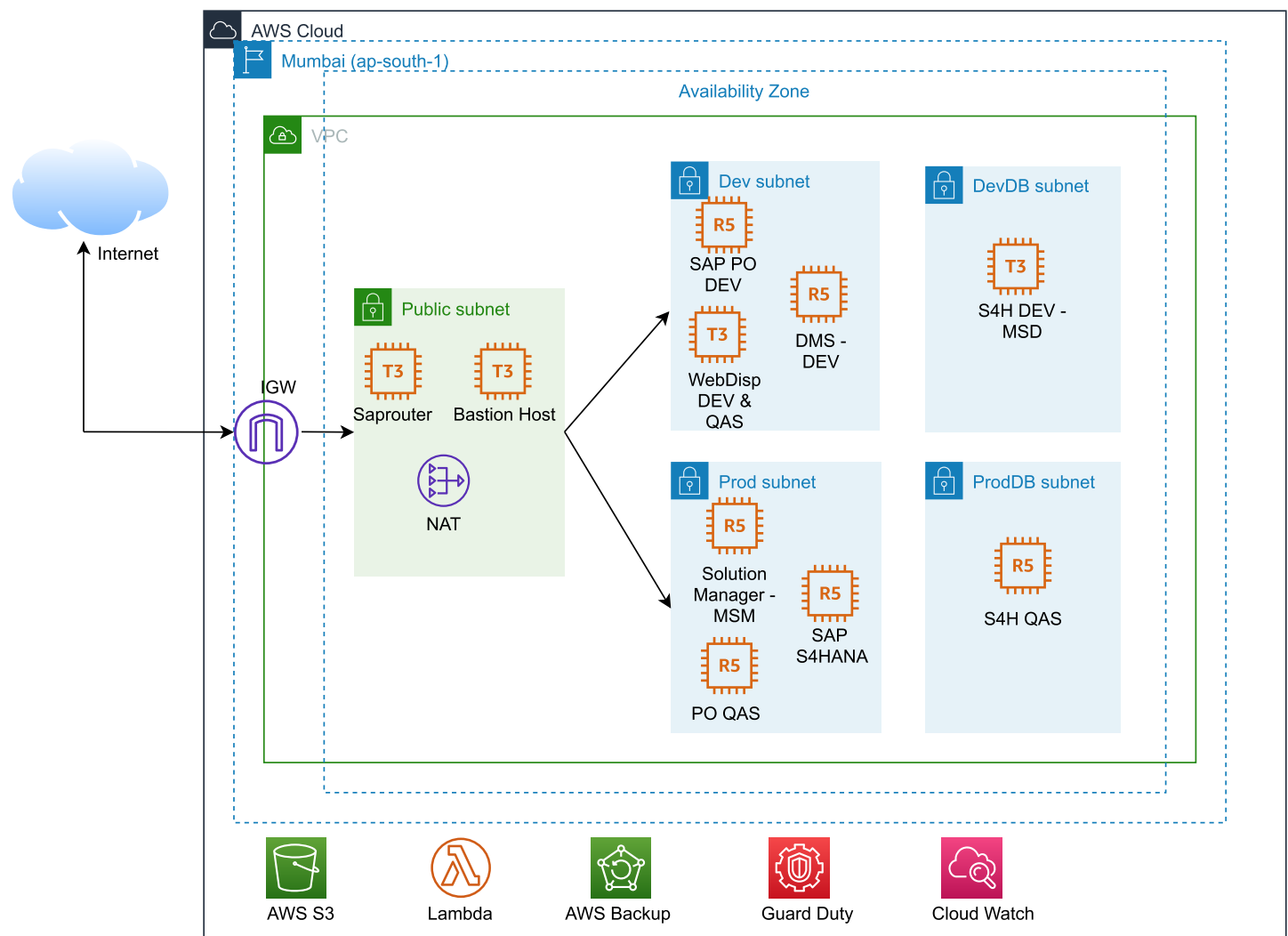
## Our Solution

MTTL was looking for an integrated solution to streamline the business processes and make informed decisions with access to real-time information. They wanted to have complete visibility with the help of real-time data and strategic monitoring and align their SAP application with changing business requirements.

As a result, they partnered with us to overcome these challenges and achieve optimum results. We evaluated the overall challenges faced by MTTL and proposed the following solution for phase-wise implementation:

- Enabled alert monitoring on disk usage to proactively include additional storage per requirement, with migration to AWS cloud, thus resolving the hardware procurement issue
- Implemented updated DB/OS version to meet the compliance requirement
- Enabled AWS Backup service to create EC2 and RDS backup as per the defined data backup policy
- Implemented CloudWatch and CloudTrail for real-time monitoring of launched instances
- Initiated One-year and Three-year saving plan to keep costs under control
- Provided Managed services support to ensure minimal downtime

## Solution Architecture



## AWS services used

- Amazon CloudWatch
- Amazon GuardDuty
- Amazon System Manager
- Amazon S3
- Amazon Lambda
- Amazon Backup
- Amazon SNS
- Amazon SES

## A Quick View of how AWS services Helped in Achieving the Desired Outcome:

- **AWS Systems Manager for scheduling server activities**

With AWS Systems Manager, the MTTL team can view operational data from multiple AWS services and schedule operational tasks across AWS resources, i.e., stopping and restarting an EC2 instance and SAP-based services.

- **AWS GuardDuty to monitor & alert for malicious activities**

We implemented AWS security service – GuardDuty to monitor and receive alerts for any malicious activity and proactively make informed decisions.

- **AWS CloudWatch to monitor & alert on workload health**

We implemented the AWS monitoring service – CloudWatch to monitor and receive alerts for CPU, RAM, and DISK utilization.

- **Reduced manual intervention and user-friendly AWS cloud environment**

AWS provided an easy and user-friendly environment that enabled quick switching to a development instance in AWS. Also, no manual intervention is required, which otherwise is a tedious task.

- **Maintaining backup and DR approach as per defined policy**

With AWS backup service, MTTL was able to centralize and automate the backup of their application and database as per the defined policy.

## Benefits



Minimized downtime (as low as 0.02%) and 80-90% reduction in Production issues



Performance improvement and compliance with DB/OS version upgrades that ensured the security patches and bug fixes



Time and effort-saving with Backup and Restore as per RPO and RTO



Optimum security posture for safeguarding data, accounts and workloads from unauthorized access



Customized reports and dashboard that helped monitor EC2 instances, RAM, CPU and DISK utilization at runtime.



Decreased costs with the help of Compute Saving Plan



## About The Partner

Founded in 1975, Motherson Group is an industry leader and one of the world's largest manufacturers of components for the automotive and transport industries. The group's diversified portfolio makes it a complete solutions provider across the globe. Motherson Group serves its customers with a wide array of products and services through multiple business divisions including wiring harness, vision systems, modules and polymer, technology & software, aerospace, health & medical, logistics, retail and metal products. Motherson Technology Services is a global technology company that offers a consulting-led approach with an integrated portfolio of industry leading solutions that encompass the entire enterprise value chain. Our technology-driven products and services are built on two decades of innovation, with a future focused management philosophy, a strong culture of invention and co-innovation, and a relentless focus on customer-centricity. An CMMI Level 5 company, we have delivered best-in-class services to 430+ clients in 41+ global locations across all continents. We are a business division of Motherson Group, one of the largest manufacturers of components for the automotive and transport industries worldwide with 150,000 employees across the globe.

