

IMPROVISING AND MODERNIZING ASSET MANAGEMENT SYSTEM FOR CONSTRUCTION MATERIAL MANUFACTURER BASED IN AUSTRALIA

ABOUT THE CUSTOMER

Boral Limited is headquartered in Sydney, with 16,000 employees working across 700 operational sites. They primarily deal with building products and construction materials.

BUSINESS REQUIREMENTS & CHALLENGES

Boral needed to transform their asset management solution to address:

- The Asset Management solution was deployed in multiple sites and with each site working in silos and causing a lack of visibility into asset usage.
- Older version of asset management product running in EOL stage.
- On-Premise solution did not allow standardization of maintenance practices, effective utilization of resources across locations, and did not allow for digitization or technical growth.
- Poor visibility into asset health metrics
- Increased TCO towards maintenance & operations
- Poor end user experience
- Lack of scheduled maintenance cycles causing higher downtime
- Higher Mean time to repair (MTTR)

TECHNICAL SOLUTION HIGHLIGHTS

- Tech Mahindra has followed their cloud migration framework (MAC Tool Kit) to migrate Boral's asset management solution and also re-platform the DB from Oracle to DB2.
- This migration was executed with an exhaustive approach that included identifying the necessary data from the existing system, extracting data, cleansing it, and transforming the data through Maximo Integration Framework (MIF).
- HA (High Availability) as well as improved network latency performance using Amazon Route53, Amazon ELB and Amazon CloudFront (CDN) was implemented
- IBM DB2 database was deployed on Amazon EC2. Database replication was enabled between AZ's and supported the app in Active/Passive methodology.
- Mulesoft middleware is used as an enabler for data communication between Maximo and Oracle Financial application hosted in customer's datacenter.
- AWS EC2 Systems Manager was used to patch the OS periodically. Tech Mahindra also created the patch baselines and maintenance windows as per the standards set forth for patching on-going basis.
- Patches were scheduled to update the non-production servers initially, followed by deployment to production servers as per the TechM mCOPS (Tech Mahindra Managed Cloud Operations) standard operating procedures.

AWS SERVICES CONSUMED

- Amazon EC2
- Amazon EBS
- Amazon ELB
- Amazon Cloud watch
- AWS Cloud Trail
- AWS Config
- AWS Trusted Advisor
- AWS Lambda
- AWS SNS
- AWS VPC
- AWS CloudFront
- AWS SES
- AWS WAF
- Amazon S3
- AWS SSM
- AWS VPN
- AWS S3 Glacier
- AWS CloudFormation

THIRD PARTY SOLUTIONS

- IBM Database Conversion
- Workbench (DCW)
- Maximo Integration Framework (MIF)

VALUE DELIVERED TO BORAL LIMITED:

- Migrated entire asset management system to AWS.
- Latest version of Maximo (7.6.0.8) has been implemented on AWS .
- Migrated 20+ years of multi-site data into a single data lake-style repository.
- Improved the mean-time to repair as well as reduced the long maintenance cycle as the customer is now able to provision and replace servers quickly.
- Significantly improved the availability and reliability of the application using AWS native services such as ELB and caching technologies for content delivery.
- Due to the services and features provided by AWS, Tech Mahindra could provide application availability at 99.95% to the customer at the lowest cost.
- Improved user experience with Amazon CloudFront using edge locations, and the ability to lock down the coverage area using geo restriction features.
- Environments were secured using AWS best practices and recommendations incorporated with AWS WAF Dynamic rules were updated using AWS Lambda along with IAM, AWS Config and AWS CloudTrail
- Tech Mahindra was able to overall reduce total cost of ownership (TCO), enhanced the security posture, Improved the overall response time, Enhanced security, Reduced RPO/RTO and Improved availability.

- ❖ Reduced the Total Cost of Ownership (TCO)
- ❖ Provided enhanced security
- ❖ Reduced RTO & RPO
- ❖ Highly available (HA) & Cost effective solution
- ❖ Faster Response Time

About Tech Mahindra

Tech Mahindra represents the connected world, offering innovative and customer-centric information technology experiences, enabling Enterprises, Associates and the Society to Rise™. We are a USD 4.9 billion company with 125,700+ professionals across 90 countries, helping over 941 global customers including Fortune 500 companies. Our convergent, digital, design experiences, innovation platforms and reusable assets connect across a number of technologies to deliver tangible business value and experiences to our stakeholders. Tech Mahindra is the highest ranked Non-U.S. company in the Forbes Global Digital 100 list (2018) and in the Forbes Fab 50 companies in Asia (2018).

We are part of the USD 21 billion Mahindra Group that employs more than 200,000 people in over 100 countries. The Group operates in the key industries that drive economic growth, enjoying a leadership position in tractors, utility vehicles, after-market, information technology and vacation ownership.

Connect with us on www.techmahindra.com

Stay Connected:    