

# Motherson Technology Services helped Woodland Optimise Their Website Performance and Security with The Support of AWS Tools



## Client Overview

An internationally recognized brand, Woodland combines activity-focused designs with technologically advanced materials to provide the most cutting-edge and efficient products. Woodland has its own integrated manufacturing facility and an emphasis on technology and innovation.

## Business Challenges

Due of the geographical distribution of the user base, effective monitoring is difficult, and hence latency issues are detected.

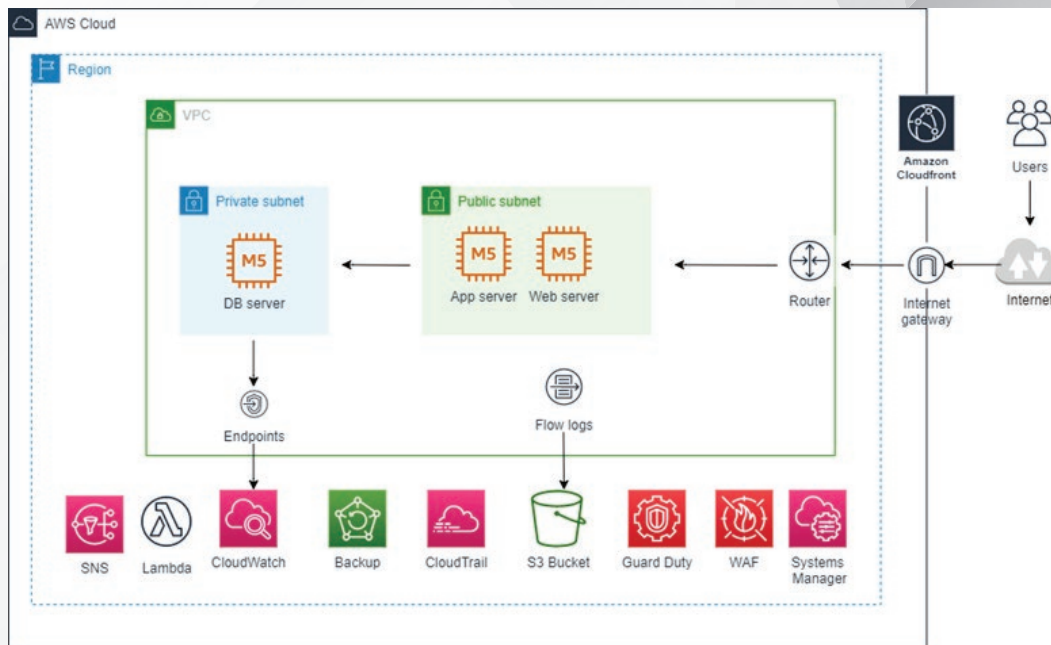
- 01 Non-availability of continuous monitoring impacted security and entire health of IT infrastructure
- 02 Security concerns at application layer impacted the website with various attacks
- 03 High latency, performance issues and low throughput network connectivity
- 04 Lack of communication between MTSL and DNS team at the time of urgent application deployments
- 05 Unexpected downtime due to increased business risk
- 06 Exposure to APIs against common web exploits and bots
- 07 Non- adequate security measures; exposure to OWASP 10

## Our Solution

To assist Woodland with its business difficulties, MTSL envisioned a highly secure and dependable AWS architecture and recommended the following:

- Implemented the AWS Data security service Guard duty for enhanced data security, WAF to help protect their web applications against common web exploits
- Implemented Application Load Balancer for smooth functioning/redirection of their application
- Implemented CloudFront to ensure reliable content delivery for minimum latency and data transfer performance
- With MTSL managed services and SLAs in place, we ensured to achieve service excellence and timely response to issue raised
- Migrated their DNS from GoDaddy to Route53
- Pay as go billing, strategic workload monitoring and highly optimized infra, ensured complete value for money
- AWS CloudWatch & Site 24x7 to monitor and get notifications about workload health and usage
- Implemented AWS WAF to increase protection, prevent unauthorized access, and provide protection against OWASP 10

## Proposed AWS Solution Architecture






## AWS Services Used

- AWS Data security service (Guard duty)
- AWS Web Application Firewall (WAF)
- AWS CloudFront (CDN)
- System Manager
- AWS CloudWatch
- AWS CloudTrail
- Amazon Simple Notification Service (SNS)
- AWS Backup

## A Quick View of how AWS Services helped build the Solution

- 1 Woodland got high reliable infrastructure at lower cost by migrating their workloads on AWS
- 2 Woodland got the enhanced data protection and security by using specific security services i.e., Guard Duty and WAF
- 3 Woodland achieved low latency and high data transfer rates to distribute the content around the world using CloudFront by serving requests using a network of edge locations
- 4 Woodland got System Manager to secure remote management, software and patch installations of instances at scale without logging into servers
- 5 Woodland got time-critical events to mobile applications and devices using SNS that rely on real-time events
- 6 CloudWatch is used to collect monitoring and operational data in the form of logs, metrics, and events
- 7 CloudTrail is used to track changes made to your AWS resources including who made the request, the services used, the actions performed and troubleshoot operational issues
- 8 Woodland got strong security of data and data recovery by maintaining automatic AWS backup and recovery solution

## Key Benefits

-  Enhanced security standards
-  Reduced latency and seamless functioning of applications
-  Auto scaling leading to performance improvement

## About The Partner

Founded in 1975, Mother'son Group is an industry leader and one of the world's largest manufacturers of components for their automotive and transport industries. The group's diversified portfolio makes it a complete solutions provider across the globe. Mother'son 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. Mother'son 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. A 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 Mother'son Group, one of the largest manufacturers of components for the automotive and transport industries worldwide with 150,000 employees across the globe.