



Tech Mahindra is Amazon Web Services (AWS) Managed Services Provider (MSP) for Stockmann and is responsible for managing the infrastructure for the Product Information Management (PIM) system on AWS ensuring Security, Scalability and Fault-tolerance while optimizing cost.

ABOUT THE CUSTOMER

Stockmann plc, established in Finland in 1862, is an international listed company engaged in the retail trade. Stockmann's divisions are the Stockmann Retail, Real Estate and Lindex. The retailer has approximately 500 stores in 19 countries and 2 online stores.

BUSINESS SCENARIO

The customer wanted to improve their Product to Market time which was being affected by a Product Information Management (PIM) system that was split across various platforms.

Stockmann was facing multiple challenges:



Struggle to maintain the enormous amount of data with poor data modelling system



Backup solution being expensive & time consuming



Instances running at higher capacity resulted in increased operational costs



Issues with security for managing database & instances

Hence the customer was looking for a strategic partner to help them build and manage their PIM infrastructure on Cloud with an optimized environment with better cost management while ensuring high availability, security and fault tolerance.

OUR SOLUTION

The PIM environment acts as the mainstay for any retail consumer business & Tech Mahindra was successful in helping Stockmann build the PIM environment on AWS enabling a fast end-to-end product onboarding and simpler asset management. Our operations include provisioning, upgrading and managing the infrastructure for PIM AWS Accounts in all environments (TST, QA and PROD). Salient features of our solution include:

- Infrastructure built using Infrastructure as Code (IaC) templates
- Adherence to IT Service Management (ITSM) practices, Security standards and AWS best practices
- Automated Deployment
- Agile standards followed for Infrastructure development



SOLUTION HIGHLIGHTS

REDEFINED BACKUP SOLUTION FOR SHARED FILE SYSTEM

- Tech Mahindra implemented the AWS Backup solution to define Backup Plan and retention policies
- Contents protected against failures with AWS Elastic File System (EFS)
- Quick restoration from backup content at a file level to provide cost savings
- OnDemand Backup's could be utilized whenever needed

COST OPTIMIZATION (RESERVATION & VPC ENDPOINTS)

- Tech Mahindra assessed the usage of instances deployed, down sized them and changed to another instance to right size the capacity
- Replaced the older instance types with new instance types
- Introduced Virtual Private Cloud (VPC) endpoints to secure the data transfer between Amazon Elastic Compute Cloud (EC2) and Amazon Simple Storage Service (S3)
- Data is now transferred from EC2 to S3 over a private network of AWS
- Improved performance of the PIM due to migrating to Nitro-based Instances as well as cost savings since the latest generation instances costs less than older ones

IMPROVED SECURITY & AUTOMATION

- Proposed AWS Secrets Manager to enhance the security of the keys/secrets stored while eliminating manual effort for password management
- Solution uses Key Management to enable secure mode of communication. This method protects the secret with an encryption key from KMS and perform password rotation automatically on a regular basis
- Automated Monitoring Reports for Resource Utilization and Elastic Load Balancer (ELB) Alarms

AWS SERVICES CONSUMED

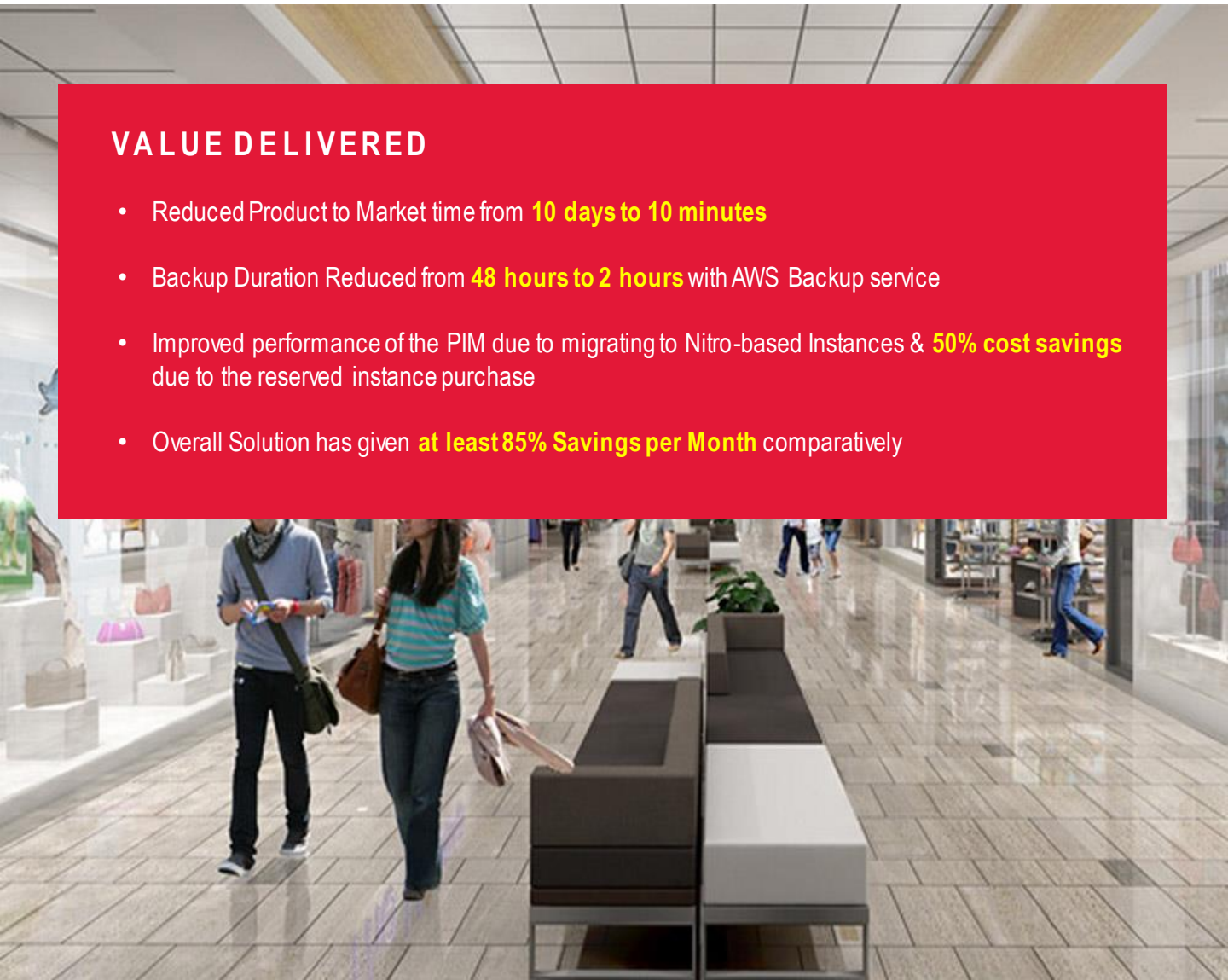
- AWS Cloudformation
- AWS Lambda
- Amazon Relational Database Service (RDS)
- AWS Backup
- Amazon API Gateway
- AWS Secrets Manager
- Amazon Simple Queue Service (SQS)
- AWS Data Pipeline
- Amazon Elastic File System (EFS)
- Amazon CloudFront
- AWS Elastic Load Balancing (ELB)
- AWS Identity and Access Management (IAM)
- AWS Key Management Service (KMS)
- AWS Certificate Manager
- Amazon Elastic Compute Cloud (EC2)
- Amazon Elastic Block Store
- Amazon Simple Storage Service (S3)
- Amazon Cloudwatch
- AWS CloudTrail
- AWS Route53
- Amazon Simple Email Service (SES)
- Amazon Simple Notification Service (SNS)
- Amazon Virtual Private Cloud (VPC)
- Amazon Inspector
- AWS Trusted Advisor
- AWS Cost Explorer

3RD PARTY SOLUTIONS

- Ansible
- GitHub

VALUE DELIVERED

- Reduced Product to Market time from **10 days to 10 minutes**
- Backup Duration Reduced from **48 hours to 2 hours** with AWS Backup service
- Improved performance of the PIM due to migrating to Nitro-based Instances & **50% cost savings** due to the reserved instance purchase
- Overall Solution has given **at least 85% Savings per Month** comparatively



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