Case study.

dimension data | MANGO

Mango | South Africa | Retail | Intelligent Infrastructure

Mango digitally transforms by migrating to the cloud and increasing efficiencies and sales

Vision

Modern retail needs a modern platform

As an international e-commerce business with a constant influx of online customers, Mango needed an agile, scalable and reliable platform to trade from.

Because of this, its digital department decided to create an entirely new platform that was able to securely face the continuous expansion of the brand. To better support business planning, the new infrastructure would also need to provide a flexible cost model that would adjust to the real demand and results of the e-commerce business.

'Since the migration to AWS with Dimension Data's managed services, we have multiplied sales results in key campaigns like Black Friday, Shopping Night or Sales.'

Mango spokesperson

To achieve this they faced a number of challenges:

- aging systems and architectures
- e-commerce unable to cope with dramatic growth in online business demand, especially in seasonal peaks
- a cultural change was needed for the successful adoption of public cloud, DevOps and continuous deployment
- PCI compliance at scale in the cloud was a business imperative

Transformation

A move to the cloud

Our solution was to implement a proof of concept to prove a migration approach onto AWS. The e-commerce platform was re-architected and increased levels of automation and reliability were introduced. In addition, application release automation products were implemented to enable Mango to achieve a continuous application deployment pipeline. This has made them completely self-sufficient in managing their application code through a highly reliable software delivery lifecycle and cloud automation enabled by Dimension Data on AWS.

In addition it's significantly increased their pace of retail innovation by deploying new code into production more regularly and more reliably.

Result

Benefits during peak times and normal operations

During their peak Black Friday period the solution was able to ensure that the 150 productions servers were able to grow to over 300 on high load. They were able cater for up to 20,000 to 30,000 requests/second, with 10 minute peaks that saw traffic grow by 4 times.

The results of the programme meant that they were able to record tangible benefits including:

- six months to fully embrace DevOps and cloud
- 50% Cost reduction from traditional IT
- four months to achieve PCI certification
- zero downtime during a seamless migration
- zero days postmigration to achieve SLA
- 100% Availability from day 0 to now (~24 months)
- less than 10 minutes to double capacity of new platform
- less than 10 code deployments now made per day

Let's do more.