



Case Study

Azure-Powered Cloud Migration of a Leading Navigation Services Provider



Client

TomTom is a leading Dutch multinational navigation services provider.



Challenges

- Frequent outages caused by faulty data center infrastructure and breached vendor SLAs.
- Performance affected by limited resources and use of legacy applications.
- Scalability issues due to a limited number of servers in the cluster.
- Dependence on the platform engineering team for infrastructure support due to access restrictions of on-prem data centers.
- Lack of disaster recovery configuration due to stretched resource bandwidth.
- Limited test and Continuous Integration (CI)/Continuous Development (CD) automation and unavailability of one-touch infrastructure creation.

LTIMindtree Solution

We used the pipeline-driven migration approach to modernize the client's infrastructure using Azure Services and drive operational efficiency and agility.

- Reduced memory consumption due to Virtual Machine Scale Sets (VMSS) auto-healing using a Virtual Machine Stock Keeping Unit (VM SKU) with a higher CPU core, enabling accelerated networking.
- Implemented a permanent outbound load balancer on the source application so that the outbound calls have a static IP and can be whitelisted on the destination application.
- Upgraded to newer versions of application servers and Java Development Kit (JDK) versions to enable Azure migration.
- Unplugged all ActiveMQ dependencies from the applications and introduced Azure Service Bus for asynchronous communication.
- Implemented auto-healing of application to minimize performance and availability degradation.
- Recreated performance scripts of legacy applications and implemented database secret Key Vaults (KVs) to validate test cases.
- Created Continuous Test (CT) pipelines for all applications and scheduled them for nightly runs.

Business Benefits

Ensured business continuity through an **incremental migration approach**

Increased migration speed by **templatizing the pipeline development**

Decoupled infrastructure and application code to **simplify management**

Minimized hindrances in the application development using the **CI-CD-CT approach**

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