

AI/ML Powered Data Migration Engine

Problem Statement

CONTEXT

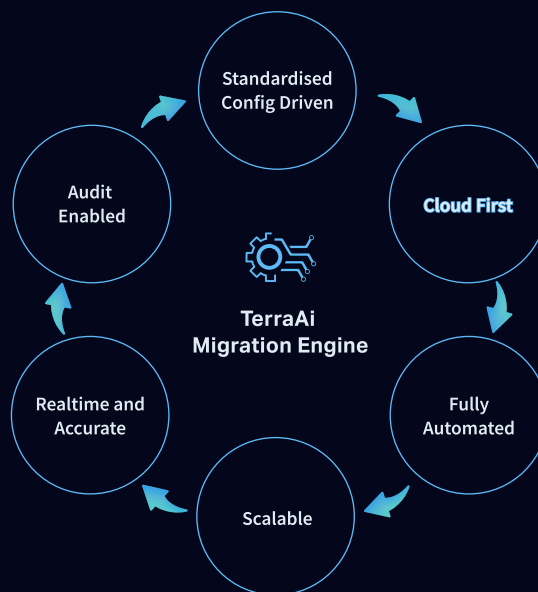
Migrating data from one platform to another is a complex endeavour, especially within regulated Financial Services. A global Fund Administration product that DLT Apps had incubated was migrating a complex dataset of £20 billion of assets under management (AUM) from a leading Asset Manager. This needed a solution that could securely migrate data at speed and at scale.



- The **target system was new** and functionally not a proven target
- The source data from the legacy application had data quality issues and **lacking consistency** across datasets.
- The extraction and mapping of important information was reliant on time and **effort-intensive manual processes** that caused concerns with scalability and accuracy.

Solution

TerraAi's MigratiO, the AI/ML-enabled data migration engine, powered the migration of this complex dataset. We achieved this by



1. Adopting modern architectural principles that enabled rapid test cycles that reduced the overall migration timelines to a few hours

2. This was achieved by implementing end-to-end automation that removed all the associated manual processes and focussed on data migration issues

3. Visualising real-time migration dashboards

4. Enabled real time data profiling which helped data fixes at source

Technologies



Impact

- 1.** Onboarding a brand-new product proposition can be performed in less than a week, including the provisioning of key services. The provisioning of new environments for an existing product can now be performed in hours with the accelerator.
- 2.** The platform is fully self-served, and building a new microservice and deploying it to an existing environment can be completed by the developers/engineers themselves. In addition, engineers also have access to tools to troubleshoot any issues that may occur using build and monitoring capabilities provided on the platform.
- 3.** The platform is available at a fixed cost for a predefined capacity and has been built to prevent the fluctuations of a typical cloud infrastructure. This has helped us save up to 50% on infrastructure costs when compared to running on typical cloud infrastructure.