

Case Study

Mastering the Shift: A successful Journey of Manufacturing pioneer from Mule 3 to Mule 4

Client Overview

The Client is a leading Industrial Sprayer Instrument institution, and this case study outlines the successful migration of their MuleSoft 3 applications to AnyPoint Platform CloudHub and their adoption of an API-led architecture. The migration process involved a phased approach, careful planning, and close collaboration between the customer's team and the migration experts.

Requirement and Challenges

The customer had been using MuleSoft 3 for several years to integrate their on-premises applications. However, their legacy infrastructure was becoming increasingly difficult to manage and maintain. Additionally, the customer wanted to adopt a more modern and scalable architecture to support their growing business needs and get out of the rigid OnPrem deployments.

Prowess provided Solution

To address the above challenges, Prowess has worked with the customer and provided various options for maintaining the environment as well as an option to migrate both the applications and the infrastructure to MuleSoft 4.

Based on these detailed inputs, the customer has decided to migrate their MuleSoft 3 applications to AnyPoint Platform CloudHub and adopt an API-led architecture using MuleSoft 4.

AnyPoint Platform CloudHub provided the customer with a fully managed, cloud-based platform for their MuleSoft applications, while an API-led architecture offered them a more flexible and reusable approach to integration. And MuleSoft helped customer to switch their OnPrem cores to the CloudHub vCores, which helped the customer by providing a smooth migration experience.

Migration Process followed

The migration process was divided into three phases:

a. Phase 1: Assessment and Planning

In this phase, Prowess integration experts conducted a thorough assessment of the customer's MuleSoft 3 applications and infrastructure.

As Prowess was already providing the application management of the Mule 3 applications, it was easier to provide the in-depth analysis to the customer. This assessment helped to identify potential migration challenges and develop a detailed migration plan.

b. Phase 2: Application Migration

Prowess team used the knowledge they garnered from the MuleSoft 3 application support and instead of taking the MMA route, have provided the analysis on manual migration of Mule 3 applications to Mule 4 APIs by merging domain specific applications (such as shipments, orders etc.,) into a single API. This approach has reduced the total number of deployments from 40 to 12 and helped in massively reducing the number of vCores required for deployments in CloudHub.

c. Phase 3: API-Led Architecture

Implementation In this phase, the migration experts worked with the customer to design and implement an API-led architecture. The API-led architecture provided the customer with a more strategic and reusable approach to integration, enabling them to easily expose their applications as APIs and consume APIs from other sources.

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Value proposition from Prowess

The migration to AnyPoint Platform CloudHub and the adoption of an API-led architecture has provided the customer with several significant benefits, including:

- **Improved agility:** The cloud-based platform has enabled the customer to deploy and manage their MuleSoft applications more quickly and easily.
- **Increased scalability:** The API-led architecture has made it easier for the customer to scale their integrations as their business grows.
- **Reduced costs:** The cloud-based pricing model has helped the customer to reduce their IT costs by removing the requirement for any OnPrem servers.

Conclusion

The migration of the customer's MuleSoft 3 applications to AnyPoint Platform CloudHub and the adoption of an API-led architecture has been a successful project that has delivered significant benefits to the customer. The migration process was carefully planned and executed, and the customer is now well-positioned to take advantage of the latest MuleSoft technologies.

