

A Fortune 20 conglomerate seamlessly integrates public and private cloud resources through hybrid IT transformation

Drives platform-independent application development via interoperability between cloud resources

About the Client

Headquartered in the United States, the client is a Fortune 20 conglomerate with business interests in various industry verticals such as appliances, power and water, oil and gas, energy management, aviation, healthcare, transportation, and capital. It employs more than 300,000 people with operations spread across the world. The client's shared services team provides and manages shared IT infrastructure across various internal business verticals.

Goals

TACKLING VENDOR LOCK-IN CHALLENGES BY FACILITATING PLATFORM-AGNOSTIC APPLICATION DEVELOPMENT

The client sought to abstract its infrastructure extending across disparate cloud environments from the applications, but was constrained by vendor lock-in provisions. Complete reliance on a single vendor posed a serious business risk, should the vendor's product have become unavailable. The client was also bound by the limited choice of cloud providers, as it could leverage only those supported by the vendor. This scenario was proving to be counterproductive for the client as it was unable to leverage the three key benefits of cloud computing - portability, interoperability, and federation.

The client looked to develop software applications independent of the underlying private/hybrid cloud platform to cater to its dynamic business demands. It needed a service partner that could effectively take ownership of the complete cloud transformation exercise at an optimal cost.

Microland

DELIVERING SEAMLESS HYBRID IT TRANSFORMATION

The client chose Microland as its preferred hybrid IT transformation vendor based on our decade-long partnership with the client and excellent track record of migrating and supporting complex IT infrastructure. In addition, our credentials as a premier VMware professional services partner in the cloud and virtualization space, industry-acknowledged AWS services, and capability to integrate diverse technologies leveraging automation positioned us as the partner of choice.

Transformation

DEVELOPING A ROBUST API TRANSLATOR

Microland engaged with the client to develop an API translator and a proprietary private cloud API that freed the infrastructure layer from the effects of vendor lock-in. This enabled the application to use open APIs to seamlessly access both AWS and private cloud resources. The way this works is depicted in Figure 1

As part of the API translator, we introduced a new 'infrastructure interface layer'. The API translator queries AWS API requests and translates them to the API of proprietary private cloud (VMware vRealize Suite). It also translates the responses back into the source format, thereby completely obscuring the presence of the proprietary API of private cloud to the infrastructure interface layer. Applications interface only with the infrastructure interface layer, which in turn, interfaces with the proprietary private cloud.

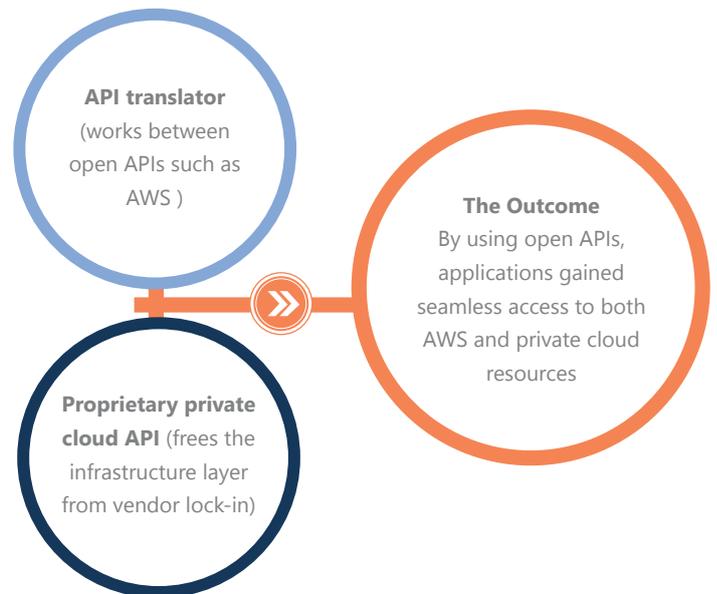


Figure 1: Cloud Transformation Solution

Outcomes

REALIZING THE TRUE POTENTIAL OF CLOUD

Microland's transformative solution enabled client applications to seamlessly access AWS and private cloud resources, helping the client fully realize the benefits of

cloud computing. The client realized the following key benefits:



Agile cloud infrastructure

- **Increased interoperability:** Applications need to communicate only with this layer rather than navigate back and forth between incompatible cloud platforms, thus reducing complexity of the IT infrastructure.
- **Enhanced portability:** Open APIs now facilitate easy data access among applications for improved efficiencies



Predictable application environment

- Seamless communication eliminated the need for altering applications in order to communicate with different cloud formats, be it in a public or private cloud

About Microland

Microland is a leading Hybrid IT Infrastructure Service Provider and a trusted partner to enterprises in their IT-as-a-Service journey. Incorporated in 1989 and headquartered in Bangalore, India, Microland has more than 3,200 professionals across its offices in Europe, Middle East, North America and India. Microland enables global enterprises to become more agile and innovative through a comprehensive portfolio of services that addresses hybrid IT transformation, workspace transformation, service transformation and end-to-end IT infrastructure management.

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