



OPCITO TECHNOLOGIES

Multi-cloud DB Provisioning And Replication Portal

About The Customer

The customer is a global leader in database clustering and replication service. They enable enterprises to run business-critical applications on cost-effective open-source software. Their customers include some of the biggest names from mark-tech, virtualization, and e-commerce industries. The customer is headquartered in San Francisco, CA, and is in more than 11 countries across North America, Europe, and Asia.

Business Challenge

The customer had their own cluster management solution, an on-prem solution. The manual installation process, every time, was a time-consuming one, and installing a new node was also a trouble. The customer wanted to automate the installation process with a centralized platform to manage users and products.

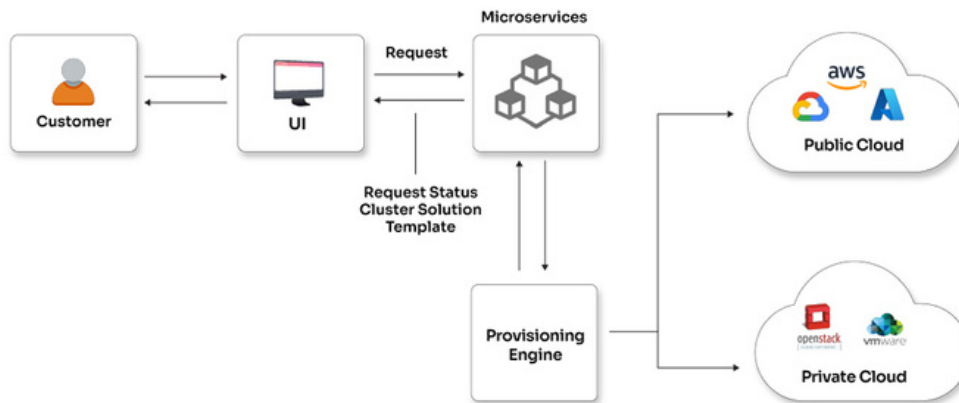
Migrating the solution to the cloud was another thing on their wish list for the inherent advantages it brings. They wanted the solution compatible with the leading cloud platforms - AWS, Azure, GCP, etc.

How Opcito Helped

After carefully considering all the possible solutions, Opcito's team of architects designed a highly scalable SaaS portal encapsulating the customer's core provisioning engine to provide various cloud-based services and a cluster management process. This included:

- A multitenant and multi-cloud solution to manage multiple clusters
- An automated end-to-end solution to reduce the time needed for installation using Ansible and Terraform
- Designing and building a microservice-based architecture that helped to increase the scalability and reusability of the services, along with efficiency
- Introducing Kubernetes in the CI/CD process to orchestrate and automate the operational tasks for the SaaS solution
- Designing a GUI to interact with and monitor multiple clouds and clusters would be possible.

Opcito's team of cloud architects and developers migrated the data for the existing and re-engineered solution from on-premises to the cloud. Now, the provisioning engine has cloud-specific implementations for each supported cloud that handles resources for networking and the database required to set up a cluster and configuration part.



Technologies, Tools, and Platforms used

KUBERNETES

ANSIBLE

TERRAFORM

Benefits

MULTITENANT MANAGEMENT

A multitenant and multi-cloud solution to manage multiple clusters

AUTOMATED INSTALLATION

An automated end-to-end solution to reduce the time needed for installation using Ansible and Terraform

MICROSERVICE ARCHITECTURE

Designing and building a microservice-based architecture that helped to increase the scalability and reusability of the services, along with efficiency

AUTOMATION

Introducing Kubernetes in the CI/CD process to orchestrate and automate the operational tasks for the SaaS solution

MULTI-CLOUD GUI

Designing a GUI to interact and monitor multiple clouds and clusters would be possible

About Opcito

At Opcito, we believe in designing transformational solutions for our customers, start-ups, and enterprises, with our ability to unify quality, reliability, and cost-effectiveness at any scale. Our core work culture focuses on adding material value to your products by leveraging best practices in DevOps, like continuous integration, continuous delivery, and automation, coupled with disruptive technologies like containers, serverless computing, and microservice-based architectures. We also believe in high standards for quality with a zero-bug policy and zero downtime deployment approach.



This document is proprietary and confidential. No part of this document may be disclosed in any manner to a third party without the prior written consent of Opcito Technologies.

India office +91 (20) 6712 4100

US office +1 (650) 772 4442