Cloud Migration

How we ensured predictable, repeatable builds and deployments; simpler and more robust rollbacks; and elimination of configuration management drift.

Overview

With the massive majority of enterprises already using the public cloud, the new focus of cloud migration strategy has shifted from low-cost and flexible IT infrastructure to leveraging mission-critical apps and workloads in the cloud. This case study illustrates the potential benefits and challenges related to the migration of an IT systems within the e-commerce industry from an in-house data center to cloud platform from a broad variety of stakeholder's perspectives across the enterprise, thus transcending the typical, yet narrow, financial and technical

analysis offered by providers. Our results show that the system infrastructure in the case study would have 37% less over five years on EC2, and using cloud computing could have potentially eliminated some support calls for the system.

The Client

Our Client is a leading global e-commerce platform that allows sellers sell locally made traditional items in the global market and customers too can customize the product with options available in the website.

The Challenge

The Client had their own infrastructure. 6 months ago, they decided to move their infrastructure to cloud, which for them was deterministic plunge to future in line with their other changes in the organization structure and business approach as a whole. In particular, they sought to improve site performance, engineering efficiency, and UX. They also wanted to ensure long-term scalability and sustainability, as well as to spend less time maintaining infrastructure and more time executing strategy.

The Benefit

Cloud computing are often a significantly cheaper alternative to buying and maintaining system infrastructure in house. Furthermore, cloud computing could potentially eliminate many support-related issues since there would be no physical infrastructure to take care of.

• Scalability - Moving to GCP enabled our Client to build e-commerce presence as quickly to markets which was only in planning or thought of to be pursued later.
• Stability - The power of cloud hosting provided superior stability for the Client. This helped them prepare for those traffic spikes.
• Savings – There was significant savings in terms of costs, which was then used to expand business operations across the continent.
• Economical and flexible payment options: Pre-configured Virtual Machines and data storage plans, enabled seamless payment mechanism
• More time to focus on business essentials: Management increased focused on business essentials led to explore other verticals and newer markets

The Solution

Our Client chose us (Allegiant Global), to partner them in migrating their infrastructure to Google Cloud Platform. Since they'd already been running their own Kubernetes cluster inside their data center, they already had a partial solution for deploying to GKE. They initially deployed in a hybrid environment (private data center and GKE), providing redundancy, reducing risk, and allowing them to perform A/B testing.

Some other challenges which was incidental was addressed by us:
• **Accessibility:** It's not enough to migrate a file share to the cloud. We also have to be able to access files via the same NAS protocols: NFS and SMB /CIFS.
• **Interoperability:** When migrating a database or other workflow to the cloud, you must take into account its interdependencies with external resources, as well as its network or VLAN topologies.
• **Data protection** in the cloud require a paradigm shift in date governance and access controls.
• **Costs:** Large-scale data migration can incur heavy bandwidth costs.it also often require production downtime, which has significant direct and indirect costs.
• **An optimal hybrid architecture** (what to leave on premise and what to move to the cloud).The organization must also have the skills and technology to manage a hybrid infrastructure.
• **Security vulnerabilities:** Organization sometimes overlook the vulnerability of their data during the transfer from on premise to the cloud.

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ABOUT ALLEGIANT
Allegiant Global is a leading outsourcing, technology, and automation services provider that aims to deliver innovative, seamless, and simplified IT solutions to clients and provide a competitive advantage to them by delivering superior customer value and strong ROI.

We are a team of disciplined operation management professionals with a customer-centric service culture, where outsourcing solutions transcend business boundaries, and our customer's needs and interests are treated above our own.

We believe that great customer engagement experiences are the building blocks of business success. We enable businesses to focus on what they do best while we apply our multilingual outsourcing expertise to help them retain and grow their customer base.