TRIANZ | DIGITAL EVOLUTION SIMPLIFIED

Business Case

Cloud Adoption for International Client (INTC)

Executive Summary

International Client (INTC) has been setting the industry standard in quality, reliability, and innovation. INTC is in the process of modernizing its IT Operations with cloud adoption as a key initiative for their digital transformation journey and to be more agile and efficient.

INTC, in partnership with Trianz, has conducted an in-depth assessment as a prerequisite for prioritizing their cloud adoption and migration. This prioritization includes the analysis of potential productivity benefits and costs savings with migration options, all weighed against risk and business objectives.

Current State Analysis

400+ VMs	**29** Oracle Databases	**24** SQL databases
Deployed across **3 data centers**	**7 On-premise applications**	
Shared Services (DNS, AD, Backup, Monitoring, Security and SMTP)		

Software Solutions

ORACLE

Microsoft

solarwinds

vmware

Problem Statement:
Our analysis of the existing application landscape has uncovered the following key challenges/risks that impact current operations, hinder business growth and scale.

Monolithic Architecture, which can only scale in one dimension, through server hardware upgrade or creating application cluster, thereby increasing administrative overhead

Multiple applications **leveraging outdated technology stack** including older versions of .NET

Excessive interconnectivity among internal and external applications

Lack of release automation and end-to-end DevOps

Solution – An Agile Cloud Adoption Strategy with Azure as the end-state hosting platform

Azure is the recommended end-state hosting platform for INTC considering its existing investment, compatibility of on-premise applications, Microsoft - Oracle partnership, and Azure advancements over the last 5+ years. We recommend an **Agile Cloud Adoption Strategy to migrate the existing workloads to Azure.**

Proper planning during Cloud migration execution is critical to avoid failures. Agile cloud adoption addresses this by **failing fast, minimizing wasted time, and providing valuable insight** to rectify problems during migration. Our agile approach will have an end-to-end migration simulated in Sandbox and other non-prod environments to mitigate all risks that we may encounter during production migration. Our strategy breaks down planning, implementation, and optimization into a set of defined processes. These processes will work in parallel thereby ensuring successful end-to-end migration with interoperability testing.

Five Reasons why Cloud Migration will be beneficial to INTC:

1

Business Agility

- Risk mitigation by adding resiliency in case of unexpected outages
- Flexibility to automatically scale up/ scale down workloads based on dynamic demand
- Rapid experimentation with new technologies and services to drive digital transformation forward

2

Operational Resilience

- Reduction in priority 1 and priority 2 infrastructure incidents as cloud provider owns shared responsibility of managing the infrastructure
- Guaranteed service level agreements (99.9% and above uptime guarantee)
- Improved performance by utilizing current generation hardware from cloud providers
- Improved security posture - leveraging best practices provided by Microsoft

3

Operational Cost

- Reduce time to perform operational actions and reduce risk in performing those actions by using pre-built frameworks and runbooks
- No need to guess the required capacity for applications and services; dynamically scale based on workloads
- Minimize operational cost by optimizing deployment and reducing configuration effort through automation
- Leverage serverless architectures for any new applications and for optimizing compute usage

4

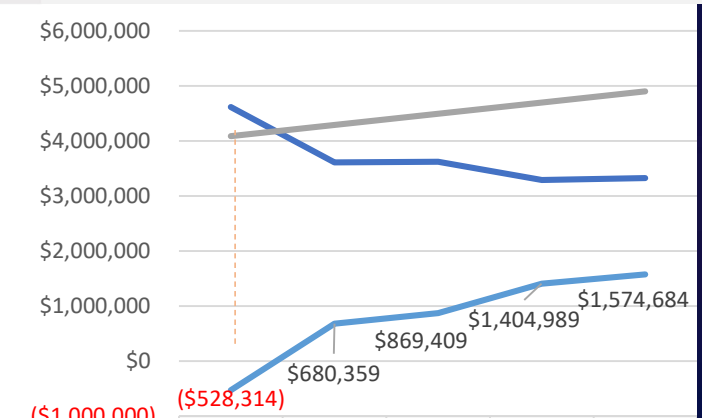
IT Workforce Productivity

- Shift to self-service culture for provisioning infrastructure resulting in faster turnaround time
- Continuously integrate, test, deploy, monitor applications and infrastructure by using DevOps tools and services
- Faster and automated application release cycle and early detection of defects thereby ensuring release success

5

Cost Avoidance

- Maintaining existing on-premise infrastructure is expected to cost INTC $22,474,100 over the next five (5) years. Following a Cloud-First approach for applications and associated IT infrastructure, the Total Cost of Ownership is expected to be $18,472,974 resulting in net savings of approximately $4,001,126 (17.8%) over five (5) years
- Avoid future high capital expenses incurred by expanding or adding new data centers
- Pay for only the services that you use and not for over-provisioned/under-utilized resources
- Reduce maintenance spend
- Eliminate capital expenses necessary for server and technology refreshes



Azure	$4,616,492	$3,611,140	$3,625,411	$3,293,152	$3,326,778
On-Premise	$4,088,178	$4,291,499	$4,494,820	$4,698,141	$4,901,462
Savings	($528,314)	$680,359	$869,409	$1,404,989	$1,574,684

Conclusion

An Agile Cloud migration is recommended for International Client (INTC) that will focus on negating/minimizing any disruption to the service line while **providing significant cost savings (over $4M) that can be spent on other digital transformation initiatives.**

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