AZURE LANDING ZONE IMPLEMENTATION & MIGRATION

CLIENT OVERVIEW

The Client is the leader & world's largest 'premium aluminium' producer and the biggest industrial company in the United Arab Emirates outside oil and gas.

BUSINESS SCOPE

The Client wanted to implement a landing zone in Azure UAE region and to migrate the existing on-premises workloads. Also, wanted Kryptos to deploy standard Azure services.

Major Milestones of the Project Scope:
- Creation of Azure Landing Zone for the client & deploy other workloads for the migration from on-premises.
- Migration of servers from the on-premises network to Azure UAE.
- Implementation of standard Azure Services for the workloads in Azure.

The Client required to modernize and enhance its infrastructure (UAE Landing zone) by migrating around 619 servers to Azure IaaS, focusing on VMware migrations followed by the remaining workloads, to match an enterprise-scale landing zone.

The objective was to achieve key milestones through a phased approach, ensuring a successful transition to the Azure cloud platform. This case study highlights the project deliverables, key implementation steps, and the subsequent seamless migration outcome.

KRYPTOS DELIVERABLES

The project involved the migration of 600+ servers, consisting of multiple flavors of operating systems, along with various application and database migrations.

- **Virtual Network & Network Security Group Creation:** To establish a secure and reliable network infrastructure within the Azure environment, a virtual network and network security group were meticulously designed and implemented.

- **Implementation of Virtual Machines in Azure:** The project included the deployment of virtual machines in Azure, ensuring the availability of computing resources necessary for hosting the migrated servers.

- **Migration of Servers:** The migration process involved relocating application servers, web servers, and standalone databases from the on-premises infrastructure to Azure, employing Azure Migrate for a streamlined and efficient transition.

- **Implementation of Additional Azure Services:** To enhance the overall functionality and security of the migrated environment, several Azure services were implemented, including Application Gateway, Azure Monitor, Defender for Microsoft, Azure Key Vault, DDOS protection, Azure Backup, Bastion, Azure Sentinel, Network Watcher, and Azure policies for compliance.

- **Seamless and Successful Migration:** The migration project was meticulously planned and executed, resulting in a seamless and successful transition of all 619 servers to the Azure cloud. Throughout the process, close attention was paid to detail, ensuring the preservation of data integrity, system performance, and business continuity.

ONGOING MONITORING & PROACTIVE MAINTENANCE

Following the completion of the migration, a comprehensive monitoring system was put in place to closely observe the migrated systems. This proactive approach allows for the early identification of potential issues, enabling swift resolution and minimizing any impact on operations. By continuously monitoring the environment, we aim to maintain optimal performance and address any emerging challenges promptly.

BENEFITS

- Cost Optimization - By leveraging Azure Landing Zone, the client optimized their cloud costs. It identified and eliminated unnecessary resources, right size deployment & implemented cost-saving strategies.

- Scalability & Flexibility – The client can leverage cloud's elasticity to easily scale their applications & resources up or down based on demand.

- Security & Compliance – Incorporate security & compliance controls by design.

- Integration with Azure Services – Azure Landing Zone Implementation & Migration for the client provides a solid foundation to leverage a wide range of Azure Services.

The migration of 619 servers to Azure represented a significant achievement, made possible through meticulous planning, precise execution, and the utilization of various Azure services. The successful outcome of this project demonstrates our expertise in managing complex migration initiatives and our commitment to delivering seamless transitions to cloud-based environments. Moving forward, we remain dedicated to maintaining the performance and integrity of the migrated systems, ensuring ongoing operational excellence.

ABOUT KRYPTOS

With more than fifteen years of experience, Kryptos is now a pioneer in managed IT and business services across the continents. Adding to its crown, Kryptos is an established Microsoft Gold Partner, ISO 20000 & ISO 27001 certified organization.
With over 150+ certified employees in various technology solutions & services, we aim to provide exceptional services & our team of vibrant industry experts work round the clock to make this possible.