

Modernizing Cloud Infrastructure for a Hi-Tech Company



The Challenge

Operating in the highly competitive hi-tech sector, the client is a leader in offering hitech services. Their customers included enterprises in the public, private, non-profit space, as well as state governments, healthcare, emergency, and large drilling and mining enterprises. Their web applications were deployed on private dedicated servers and posed significant challenges, including sub-par service performance, resulting in considerable customer churn and revenue loss.

Besides, the user experience was severely compromised with a sluggish server response. Substantial infrastructure, resources, and IT maintenance-related expenses stymied the ROI. These disruptions eventually culminated in damaging the customer brand name, who decided to migrate to the cloud. However, ensuring disruption-free and 100% business continuity during the migration to the cloud was a significant concern.

Impact Delivered

- 45% reduction in operating costs
- 71% increase in productivity with improved uptime
- 67% reduction in manpower dependency

Solution Components

Azure Cloud | Microsoft SQL Server 2018 | IIS | ASP.NET | Python

The Solution

Our cloud transformation team meticulously worked on migrating from on-premise to Microsoft Azure Cloud. This transition required consolidating the client's 100+ database servers totaling about 500 GB. Our experts leveraged the master-slave scheme to replicate data to the cloud. This required migrating the webservers to Azure VMs and configuring them based on IIS web services.

In addition, we applied the Azure Virtual Private Cloud to create public and private subnets and established multiple levels of security for the client's services. All backup requirements were met with custom scripts for archiving data.

The Results

- Eliminated stagnation by leveraging Azure's ability to scale on-demand
- Added flexibility to adapt and customize based on specific requirements
- Reduced operating costs by 45% by migrating from on-premise to cloud
- Enabled a 71% increase in productivity with maximum uptime
- Reduced workforce dependency by 67%
- Ensured heightened data security with high-end system protocols
- Increased speed and agility of app performance and enhanced the digital experience