

Management Computer Systems



Benefits Summary



Operational Efficiencies



Improved Governance



Optimization

About Management Computer Systems

Management Computer Systems (MCS) was established in 1974 as a custom software developer and IBM Series 1 services provider. In 2015, MCS launched its first cloud-based system. Today, it provides its customers with the option of hosting their systems locally or having them hosted on the Amazon cloud. All MCS systems are now available on the Amazon cloud.

Industry

Software Development

Location

Clark, New Jersey

Featured Services

Migration, Amazon EC2, Amazon Workspaces, Amazon FSx

CHALLENGE

Migrate Windows Workloads from Data Centers to the Cloud with Reliable, Scalable Infrastructure on Demand while Reducing Infrastructure Costs

- The technology team at Management Computer Systems wanted to migrate its Windows workloads from its data centers to an enterprise-grade cloud platform with reliable, scalable infrastructure on demand while reducing its infrastructure costs and taking advantage of bundled Microsoft licensing.
- MCS wanted to modernize its footprint by adopting and integrating managed service variants of technologies to strengthen and simplify its architectures while also refactoring its environments to better align with customer requirements.
- MCS needed to improve its overall security posture, including improved traffic visibility and protection against attacks.
- MCS needed a centralized and consistent way to gather operational insights and automate routine management tasks, including automating patch approval and deployment.



SOLUTIONS

Optimizing Windows Workloads with AWS: A Comprehensive Integration Approach

- To first identify any gaps in security, performance, or reliability, nClouds (formerly Cloudnexa) performed an exhaustive Well-Architected Review where areas of improvement were identified for all AWS services in use or recommended.
- VPCs were built with network layers to accommodate different reachability requirements and allow for more granular control of traffic using a defense-in-depth approach.
- Windows Workloads were replatformed using AWS-managed services like Amazon FSx for Windows File Server, AWS Managed Microsoft AD, and Amazon RDS for SQL Server.
- CloudEndure DR for Microsoft SQL Server was used for SQL Server databases that could only be rehosted due to licensing restrictions.
- Trend Micro Cloud One was used to provide intrusion prevention, antimalware, and integrity.



RESULTS

Enhancing Business Operations through AWS



Operational Efficiencies

Using fully managed AWS services to host Windows Workloads allowed for the rapid deployment and testing of scalable, durable, highly available infrastructure.



Improved Governance

Integrating AWS SSM enabled MCS to improve overall operational governance by gaining better visibility and control regarding the current state of resources.



Optimization

By refactoring to Amazon FSx for Windows File Server, MCS was able to modernize the environment and further reduce the administrative overhead in managing multiple file servers.

